# BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

# PETITION NO.....For True-up in Petition No- 430/GT/2020

### IN THE MATTER OF

: Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for revision of tariff of Rihand Super Thermal Power Station St-III (1000 MW) for the period from 01.04.2019 to 31.03.2024 after the truing up exercise

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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (क जिन्ह्याम) Addi, General Manager (Commercial) एन दी भी सी लिभिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

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Petitioner:

: NTPC Ltd.

NTPC Bhawan

Core-7, Scope Complex

7, Institutional Area, Lodhi Road

New Delhi-110 003

#### Respondents

 Uttar Pradesh Power Corp. Ltd. (UPPCL) Shakti Bhawan
 Ashok Marg Lucknow – 226 001

 Rajasthan Urja Vikas Nigam Limited (RUVNL) Vidyut Bhawan, Janpath, Jaipur – 302 005 (Rajasthan)

(On Behalf of DISCOMs of Rajasthan)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवस्त्रक (दानिविक्स) Addi. General Menager (Commissial) एन टी भी सी लिगिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

- Tata Power Delhi Distribution Ltd.
   Grid Substation, Hudson Road
   Kingsway Camp, New Delhi- 110009
- BSES Rajdhani Power Ltd. (BRPL)
   BSES Bhawan, Nehru Place
   New Delhi 110019
- BSES Yamuna Power Ltd. (BYPL) Shakti Kiran Building Karkardooma Delhi- 110092
- Haryana Power Purchase Centre Shakti Bhawan, Sector-VI, Panchkula, Haryana – 134109
- Punjab State Power Corporation Ltd. (PSPCL)
   The Mall, Patiala 147 001
- Himachal Pradesh State Electricity Board Ltd. (HPSEB Ltd.)
   Kumar Housing Complex Building-II
   Vidyut Bhawan, Shimla – 171 004
- Power Development Department (PDD-J&K)
  Govt. of J&K, Civil Secretariat
  Srinagar
- Electricity Department (Chandigarh)
   Union Territory of Chandigarh
   Addl. Office Building, Sector-9 D

Chandigarh

परिमल पीयूच/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणि विस्क) Add. General Manager (Commission) एन दी भी सी लिमिटेड/NTPC LIM/TED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Uttarakhand Power Corporation Ltd. (UPCL)
 Urja Bhavan, Kanwali Road
 Dehradun – 248 001

The Petitioner humbly states that:

- The Petitioner herein NTPC Ltd. (hereinafter referred to as 'Petitioner' or 'NTPC), is a Government of India Company within the meaning of the Companies Act, 1956. Further, it is a 'Generating Company' as defined under Section 2(28) of the Electricity Act. 2003.
- 2) The Petitioner is having power stations/ projects at different regions and places in the country. Rihand Super Thermal Power Station Stage-III (2 X 500 MW) (hereinafter referred to as Rihand-III) is one such station located in the State of Uttar Pradesh.
- The power generated from Rihand-III is being supplied to the respondents herein mentioned above.
- 4) Section 62 of Electricity Act, 2003 provides for determination of tariff by the Appropriate Commission for supply of electricity by a generating company. The Hon'ble Commission, under Section 79(1)(a) of Electricity Act, 2003, is vested with the jurisdiction to regulate the tariff of the Generating Companies owned or controlled by the Central Government.
- The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2019 (hereinafter 'Tariff Regulations 2019) which came into force from 1.4.2019 and specify the terms & conditions and methodology of tariff determination for the period from 01.04.2019 to 31.03.2024 under Section 62 & 79 of the Electricity Act, 2003.

6) Regulation 9(2) of CERC (Terms & Conditions of Tariff) Regulations 2019 provides as under:

"9. Application for determination of tariff:

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परिमल पीयून/PARIMAL PIYUSH stry महाप्रवान्यक (पार्ताकिताक) Addl. General Manager (Communicial) एन दी पी सी लिपिटेड/NTPC LIMITED एन दी पी सी लिपिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

- "(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.10.2019, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2019 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2019-24 along with the true up petition for the period 2014-19 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2014,"
- 7) In accordance with the above, Petition No. 430/GT/2020 for determination of tariff for Rihand-III was filed before the Hon'ble Commission based on the admitted cost as on 31.03.2019 and projected estimated additional capital expenditure for the period 01.04.2019 to 31.03.2024.
- 8) The tariff for Rihand-III for the period from 01.04.2019 to 31.3.2024 was determined by the Hon'ble Commission vide order dated 27.12.2023 in Petition No. 430/GT/2020. The capital cost allowed for tariff determination included the projected additional capital expenditure admitted by the Hon'ble Commission after prudence check.
- Further, Chapter-3, Regulation 13 of the Tariff Regulations 2019 provides as under:

### "(13) Truing up of tariff for the period 2019-24:

- (1) The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:
  - a) the capital expenditure including additional capital expenditure incurred up to 31.3.2024, as admitted by the Commission after prudence check at the time of truing up:
  - b) the capital expenditure including additional capital expenditure incurred up to 31.3.2024, on account of Force Majeure and Change in Law.
- (2) The generating company or the transmission licensee, as the case may be, shall make an application, as per Annexure-I to these regulations, for carrying



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यिक) Addl. General Manager (Commercial) एन टी पी भी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) out truing up exercise in respect of the generating station or a unit thereof or the transmission system or an element thereof by 30:11.2024.

- 10) In line with the provisions quoted above, the Petitioner is filing this petition for truing up the additional capital expenditure for the control period 2019-24, based on admitted capital cost as on 01.04.2019 and actual capital expenditure incurred during the tariff period from 01.04.2019 to 31.03.2024.
- 11) The year wise actual capital expenditure has been indicated and enclosed as part of Appendix-I herewith. In addition to the actual additional capital expenditure as above, discharge of liabilities during the period from 01.04.2019 to 31.03.2024 (year wise) out of the liabilities excluded from capital cost for the works already allowed/ claimed have also been indicated.
- 12) As per para 29 of CERC order dated 27.12.2023 in petition no. 430/GT/2020 the capital cost as on 31.3.2024 is Rs 5,63,837.35 Lakh, as shown in Form-5. Further, the Petitioner has claimed additional capitalization under the regulatory provisions of CERC Tariff Regulations-2019 for truing up of tariff. The difference in additional capitalization amounting to Rs 6,734.03 Lakh wrt earlier add-cap has been adjusted to arrive at the capital cost as on 31.3.2024, as shown in Form-9A. Hon'ble Commission may be pleased to take the same into consideration while approving the tariff of the instant station.
- Emission Control System(De-NOx):
  - a. Hon'ble Commission, vide order dated 17.11.2021 in Petition No. 66/MP/2020 has accorded in principle approval for installation of Emission Control System (ECS) comprising:
    - (i) De-NOx system (Combustion Modification) and
    - (ii) SO<sub>2</sub> removal system (i.e. Wet FGD).
  - The petitioner has installed Emission Control (ECS) System for controlling Nox emissions during the Tariff Period 2019-24. Accordingly, the supplementary tariff for the same has been claimed as a separate



stream under regulation 29 of Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019. The tariff forms for the ECS (DeNox) System are attached as **Appendix-IA**.

- 14) Further, in accordance with the provisions of the Regulation-31 of Tariff Regulations 2019, for the purpose of computation of the Return on Equity, the base rate has been grossed up with the effective tax rate (MAT) applicable to NTPC at the end of respective financial years for the period 2019-24. The same is indicated in the Form-3 attached at Appendix-I/ Appendix-IA.
- 15) Further, in accordance with the provisions of the Regulation-34 of Tariff Regulations 2019, for the purpose of computation of the Interest on Working Capital, the landed fuel cost (taking into account normative transit and handling losses) and gross calorific value of the fuel as per actual weighted average for the third quarter of FY 2018-19, FY 2019-20, FY 2020-21, FY 2021-22 & FY 2022-23 is considered. Also, the rate of interest on working capital is considered at bank rate as on 1st April of each of the financial year during the tariff period of 2019-24. The same is indicated in the Form-O attached at Appendix-I.
- 16) It is submitted that some of the loans allocated to this station have been refinanced by taking new loans with lower rate of interest. As per Regulation 61 (1) of Tariff Regulations 2019, the benefits of refinancing of loans has to be shared with the beneficiaries in the ratio of 50:50 (Beneficiaries: Generator). The same has been applied by adjusting the rate of interest of new loans while computing weighted average rate of interest. The adjustment in rate of interest for new loans has been done as illustrated below:

Rate of interest of existing loan: 8.000% (say)

Rate of interest of new loan for refinancing of existing loan: 6.000% (say)

Rate of interest of new loan considered for computing weighted average rate of interest: 7.000%.

17)It is relevant to submit that the Petitioner has filed Appeal before the Hon'ble Appellate Tribunal for Electricity in respect of certain disallowed claims by



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिज्यक) Addi, General Manager (Commercial) एन टी ग्री सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Hon'ble Commission. It is humbly submitted that the Petitioner reserves the right to approach this Hon'ble Commission and/or file amended Petition based on the outcome of such Appeal and/or any subsequent appeal(s).

- 18)Hon'ble Commission vide tariff order dated 27.12.2023 in tariff petition 430/GT/2020 of the stations at Para 48 has allowed the truing up of water charges, which has been allowed by the Hon'ble Commission in the instant order based on actual/projections. Accordingly, the details for water charges at actuals have been submitted in the instant petition. Hon'ble Commission may be pleased to allow the same.
- 19)It is submitted that Hon'ble Commission at para 49 in its order dated 27.12.2023 in petition no. 430/GT/2020 has allowed the consideration of the claim on merits towards capital spares consumption at the time of truing up. Accordingly, the same has been claimed in Form-3A of the attached Appendix-I. The details of the year wise capital spares consumed have been provided in Form-17 of the attached Appendix-I. It is prayed before Hon'ble Commission to consider the same and allow the expenditure on capital spares consumption as claimed under Regulation 35(1)(6) of the 2019 Tariff Regulations.
- 20)It is further submitted that at para 52 of order dtd. 27.12.2023 in petition no. 430/GT/2020 for the instant station, the claim against security expenses had been claimed by the petitioner on estimated basis, and the same has been considered by Hon'ble Commission subject to truing up. The details of actual security expenses has been provided in Form-3A of the attached Appendix-I for the period 2019-24. It is prayed before Hon'ble Commission to consider the same and allow the expenditure on security expenses as claimed under Regulation 35(1)(6) of the 2019 Tariff Regulations."

### 21) Ash Transportation expenses

(i) It is submitted that Hon'ble Commission vide its order dated 28.10.2022 in Petition No. 205/MP/2021 has allowed ash transportation on actual basis for the period 2019-22 and the monthly billing for ash transportation charges for 2022-24 period as below:



39. Petitioner has furnished the details of the distance to which fly ash has been transported from the generating station, schedule rates applicable for transportation of fly ash, as notified by the State Governments along with details, including Auditor certified accounts. These documents have been examined and accordingly, the total fly ash transportation expenditure allowed to the Petitioner generating station wise for the period 2019-22 is as per the table in para 38 above totalling to Rs.309704.03 lakh and the same shall be recovered from the beneficiaries of the respective generating stations in 6 (six) equal monthly installments. However, the Petitioner is directed to submit details regarding award of transportation contracts, distance to which fly ash has been transported along with duly reconciled statements of expenditure incurred on ash transportation at the time of filing petitions for truing up of tariff for the 2019-24 tariff period of the generating stations.

#### Monthly billing

40

43. In the light of the above discussion and keeping in view that the Petitioner is entitled for recovery of fly ash transportation charges, under change in law, as additional O&M expenses, we permit the provisional billing at 90% of the fly ash transportation charges incurred by the Petitioner, in respect of its generating stations, for the balance period (i.e. 2022-24), on a monthly basis, based on self-certification, and the beneficiaries shall pay the same accordingly. This is, however, subject to prudence check of the claims, at the time of truing-up of tariff for the period 2019-24, in respect of the generating stations of the Petitioner, in terms of Regulation 13 of the 2019 Tariff Regulations.

44. We direct that the fly ash transportation cost incurred by the Petitioner, shall be recovered, in proportion to the coal consumed corresponding to the scheduled generation at normative parameters in accordance with the 2019 Tariff Regulations or at actuals, whichever is lower, for the supply of electricity to the respective Discoms. If the actual generation is less than the scheduled generation, the coal consumed for actual generation shall be considered for the



purpose of computation of transportation of fly ash. The Petitioners are directed to furnish along with its monthly regular and/or supplementary bill(s), computations duly certified by the auditor, to the Respondent Discoms. The Petitioners and the Respondent Discoms are also directed to carry out reconciliation in respect of the claims, annually and the same is subject to truing-up, in terms of Regulation 13 of the 2019 Tariff Regulations."

#### Carrying Cost

47. In line with the above decision and since the Petitioner has been permitted to recover the fly ash transportation cost as 'additional O&M expenses', for the period 2019-24, in exercise of the regulatory powers under Section 79(1)(a) of the Act, we permit the recovery of these charges, along with carrying cost, at the rate of interest as specified, in terms of Regulation 10 (7) of the 2019 Tariff Regulations."

It is pertinent to mentioned here that in compliance to the various directives of the Hon'ble commission in petition no 205/MP/2021, petitioner has already submitted entire set of documents i.e. transportation contracts, price discovery mechanism, end user certificate etc and duly audited statement of ash transportation and ash fund for the FY 2019-20, 20-21 and 21-22. Based on the above said submissions of petitioner, the Hon'ble Commission has already decided the Ash Transportation expenditure for NTPC Stations including Rihand-III for the said period which has achieved finality.

Further, in compliance to Hon'ble Commission directives vide order dated 28/10/2022 in petition no 205/MP/2021 (para 43), the petitioner continued monthly billing of ash transportation expenditure @90% of expenditure provisionally for the balance period 2022-24.

In view of the above directions passed by this Hon'ble Commission, the Petitioner is now submitting the actual transportation cost incurred for ash transportation for the period 2022-24 on actual basis in Form-3A along with the required documents. It is relevant to mention that Form-3A contains information



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिवियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) of Ash Transportation for entire control period of 2019-24 for the sake of brevity/ simplicity. It is prayed that this Hon'ble Commission may be pleased to allow the same as prayed for.

- 22) The tariff calculation based on the above & other applicable provisions, in the formats provided in the Appendix-I of the Tariff Regulations 2019 and supplementary tariff calculations in the formats compiled under Appendix-IA are enclosed herewith.
- 23) The filing fee for the tariff determination has already been paid for the period from 2019-24 as per provisions of CERC (Payment of Fees), Regulation 2012. Accordingly, no fee is payable along with this petition for revision of tariff.

#### Prayer

In the light of above submissions and submissions made in respect of the directions of the Hon'ble Commission in its order dated 27.12.2023 the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

- Approve revised tariff of Rihand-III for the tariff period 2019-24 as per provisions of Regulation 13 of Tariff Regulations 2019.
- Approve supplementary tariff for Rihand Super Thermal Power Station Stage-III (2x500MW) on installation of Emission Control System for controlling Nox emissions.
- Allow the Petitioner to recover the additional O&M cost for ash transportation.
- Allow the reimbursement of water charges, capital spares and security expenses for the instant station, as claimed by the Petitioner.
- Pass any other order as it may deem fit in the circumstances mentioned above.

(Petitioner)

Noida (U.P.)

Date: 18.11.2024

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

#### BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION **NEW DELHI**

#### PETITION NO.....

#### For True-up in Petition No- 430/GT/2020

IN THE MATTER OF

: Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-Wof the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for revision of tariff of Rihand Super Thermal Power Station St-III (1000MW) for the period from 01.04.2019 to 31.03.2024

after the truing up exercise.

Petitioner:

: NTPC Ltd. NTPC Bhawan

Core-7, Scope Complex

Institutional Area, Lodhi Road

New Delhi-110 003

Respondents:

1. Uttar Pradesh Power Corp. Ltd. (UPPCL) Shakti Bhawan 14. Ashok Marg Lucknow -226 001

And Others

#### AFFIDAVIT

I, Parimal Piyush, Son of Late Bharat Mishra, aged about 49 years, resident of IN1-2004, Inspire, Eldeco Aamantran, Sector-119, Noida (UP), do hereby solemnly affirm and state as follows:

1. That the deponent is the Additional General Manager (Commercial) of the Petitioner NTPC Ltd. and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.

2. That the accompanying Petition under Section 62 and 79 (1) (a) of the Electricity Act, 2003, has been filed by my authorized representative under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.

- That the annexures annexed to the Petition are correct and true copies of the respective originals.
- That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute.

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (पाणिज्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

(Deponent)

#### Verification:

Verified at Noida on this 16th day of November 2024, that the contents of my above noted affidavit are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

(Deponent)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (वाणिवियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

ATTESTED

ATTESTED

BALKITCHNA DIGIT
Advocate (Notary)
R. No. 7167

GAUTAM BUDH NAGAR (U.P.

1 6 NOV 2024

## TARIFF FILING FORMS (THERMAL)

# FOR TRUING-UP OF TARIFF FOR

Rihand Super Thermal Power Station Stage-III (From 01.04.2019 to 31.03.2024)

PART-I

APPENDIX-I

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रधन्धक (वाणिवियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

		rmal Statio
Form No	(Thermal)	
FORM- 1	Summary of Tariff	*1
FORM -1	containing department Cast	
FORM -1	(II) Statement showing Return on Equity	
FORM-2	Plant Characteristics	-
FORM-3	Normative parameters considered for tariff computations	
FORM-3A	Statement showing O&M Expenses	-
FORM-3B	Statement of Special Allowance	
FORM- 4	Details of Foreign loans	
FORM- 4A	- Common of Graph Eduty	1
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	
FORM-5A	Prostract or claimed Capital Cost for the existing Oscilente	- 2
FORM-6	If example Package upto COD	-
FORM- 7	Details of Project Specific Loans	N
FORM-8	Details of Allocation of corporate loans to various projects	N
FORM-9A*	Summary of Statement of Additional Capitalisation claimed during the period	
FORM-9##	Statement of Additional Capitalisation after CCO	
FORM- 10	Financing of Additional Capitalisation	
FORM-11	Calculation of Depreciation on original project cost	-
FORM- 12	Statement of Depreciation	N/
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	- /
FORM- 14	Oraw Down Schedule for Calculation of IDC & Financing Charges	-
FORM- 15	Territoria de l'unite de L'ambrellation of France, Charache	N/
FORM- 15A	[Details of Seconday Fire] for Commutation of F	-
FORM- 15B	* Computation of Energy Charges	1
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	1
FORM-17	Details of Capital Spares	NA.
FORM- 18	Non-Tariff Income	1
ORM-19	Details of Water Charges	1
ORM-19A	Date of the Oranges	-
CHCM-1804	Degats of Water Charges Computed	1
	Details of Water Charges Computation  Details of Statutory Charges	-
ORM-20	Details of Water Charges Computation  Details of Statutory Charges yearwise for the period 2019-24	1
FORM-20 W Provided	Details of Statutory Charges yearwise for the period 2019-24 List of Supporting Forms / documents for tariff filing for Thermal Station	1
ORM-20 W Provided orm No.	Details of Statutory Charges yearwise for the period 2019-24   List of Supporting Forms / documents for tariff filing for Thermal Station   Title of Tariff Filing Forms (Thermal)	PART
ORM-20 W Provided orm No. ORM-A	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates	PART
ORM-20 W Provided orm No. ORM-A ORM-B	Details of Statutory Charges   yearwise for the period 2019-24   List of Supporting Forms / documents for tariff filling for Thermal Station   Title of Tariff Filling Forms (Thermal)   Abstract of Capital Cost Estimates   Break-up of Capital Cost for Cost in the basic cost in the	PART S
ORM-20 W Provided orm No. ORM-A ORM-S DRM-C DRM-D	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filling for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Cost/Lignite based projects  Break-up of Capital Cost for Cast/Lignite based projects	PART
ORM-20 W Provided orm No. ORM-A ORM-B ORM-C ORM-D ORM-D	Details of Statutory Charges   Yearwise for the period 2019-24     List of Supporting Forms / documents for tariff filling for Thermal Station   Title of Tariff Filling Forms (Thermal)   Abstract of Capital Cost Estimates   Break-up of Capital Cost for Cost/Lignite based projects   Break-up of Capital Cost for Gas/Lignite based Projects   Break-up of Capital Cost for Gas/Lignite based Projects   Break-up of Construction/Supply/Service packages   Details of variables   parameters   policinal costs	PART  Tick NA NA
ORM-20 W Provided  orm No. ORM-A ORM-B DRM-C DRM-D DRM-E DRM-F	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Construction/Supply/Service packages  Details of variables, parameters, optional package stc. for New Project  Details of cost over run	PART  FART  NA  NA  NA
ORM-20 W Provided  orm No. ORM-A ORM-B ORM-C ORM-D ORM-E ORM-F ORM-F	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Liquid fuel based Projects  Break-up of Construction/Supply/Service packages  Details of variables - parameters - optional package etc. for New Project  Details of cost over run  Details of time over run	PART SE TICK NA NA NA NA NA
ORM-20 W Provided ORM-A ORM-B ORM-C ORM-D ORM-E ORM-F ORM-F ORM-G ORM-F	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Liquid fuel based Projects  Break-up of Construction/Supply/Service packages  Details of variables - parameters - optional package etc. for New Project  Details of time over run  Details of time over run  Statement of Additional Capitalisation during and of fine	PART S Tick NA NA NA NA NA NA NA NA
ORM-20 W Provided  ORM-A ORM-B ORM-C ORM-D ORM-E ORM-F ORM-G ORM-G ORM-F ORM-G ORM-G ORM-G	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Liquid fuel based Projects  Break-up of Construction/Supply/Service packages  Details of variables parameters optional package etc. for New Project  Details of time over run  Statement of Additional Capitalisation during and of the useful life  Details of Assets De capitalisad during and of the useful life	PART  PART  Tick  NA  NA  NA  NA  NA  NA  NA  NA  NA  N
ORM-20 W Provided ORM-A ORM-B ORM-C ORM-C ORM-C ORM-C ORM-C ORM-F ORM-F ORM-F ORM-G ORM-H ORM-I	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Construction/Supply/Service packages  Details of variables, parameters, optional package etc. for New Project  Details of cost over run  Details of time over run  Statement of Additional Capitalisation during end of the useful life  Details of Assets De capitalisation during the period  Reconcitation of Capitalisation daimed vis. A vis. broke of expenses.	PART  FICK  NA  NA  NA  NA  NA  NA  NA  NA  NA  N
ORM-20 W Provided ORM-A ORM-B ORM-C ORM-C ORM-C ORM-C ORM-B ORM-C ORM-C ORM-C ORM-C	Details of Statutory Charges     Yearwise for the period 2019-24	PART SE TICK NA NA NA NA NA NA NA
ORM-20 W Provided ORM-A ORM-B ORM-C ORM-C ORM-B ORM-C ORM-B ORM-C	Details of Statutory Charges     Yearwise for the period 2019-24	PART SE TICK NA NA NA NA NA NA NA NA NA
ORM-20 W Provided ORM-A ORM-B ORM-C	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filling for Thermal Station  Title of Tariff Filling Forms (Thermal) Abstract of Capital Cost Estimates Break-up of Capital Cost for Coal/Lightle based projects Break-up of Capital Cost for Gas/Liquid fuel based Projects Break-up of Construction/Supply/Service packages Details of variables , parameters , optional package etc. for New Project Details of cost over run Details of time over run Statement of Additional Capitalisation during end of the useful life Details of Assets De-capitalised during the period Reconciliation of Capitalisation claimed vis-a-vis books of accounts Statement showing details of items/assets/works claimed under Exclusions Statement of Capital Cost Statement of Capital Woks in Progress	PART SE TICK NA
ORM-20 W Provided  ORM-A ORM-B ORM-C ORM-C ORM-C ORM-C ORM-F ORM-F ORM-F ORM-H ORM-I ORM-I ORM-I ORM-K RM-L RM-M	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filling for Thermal Station  Title of Tariff Filling Forms (Thermal) Abstract of Capital Cost Estimates Break-up of Capital Cost for Coal/Lightle based projects Break-up of Capital Cost for Gas/Liquid fuel based Projects Break-up of Construction/Supply/Service packages Details of variables , parameters , optional package atc. for New Project Details of variables , parameters , optional package atc. for New Project Details of time over run Statement of Additional Capitalisation during and of the useful life Details of Assets De capitalised during the period Reconciliation of Capitalisation claimed vis-a-vis books of accounts Statement showing details of items/assets/works claimed under Exclusions Statement of Capital Cost Statement of Capital Woks in Progress Calculation of Interest on Normative Loan	PART SE TICK NA NA NA NA NA NA NA V
ORM-20 W Provided ORM-A ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C ORM-C ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C	Details of Statutory Charges     Yearwise for the period 2019-24	PART SE TICK NA NA NA NA NA NA NA V
ORM-20 W Provided  ORM-A ORM-B ORM-C ORM-C ORM-B ORM-C	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Construction/Supply/Service packages  Details of variables parameters optional package etc. for New Project  Details of cost over run  Statement of Additional Capitalisation during end of the useful life  Details of Assets De-capitalisation during end of the useful life  Details of Assets De-capitalisation during the period  Reconcitation of Capitalisation claimed vis-a-vis books of accounts  Statement showing details of items/assets/works claimed under Exclusions  Statement of Capital Woks in Progress  Calculation of Interest on Normative Loan  Calculation of Interest on Working Capital  Incidental Expenditure up to SCOD section to Additional Expenditure up to SCOD sections	PART SE TICK NA NA NA NA NA NA NA V
ORM-20 W Provided  ORM-A ORM-B ORM-C ORM-C ORM-B ORM-C	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Construction/Supply/Service packages  Details of variables, parameters, optional package etc. for New Project  Details of cost over run  Details of time over run  Statement of Additional Capitalisation during end of the useful life  Details of Assets De capitalised during the period  Reconcitation of Capitalisation claimed vis-a-vis books of accounts  Statement showing details of items/assets/works claimed under Exclusions  Statement of Capital Cost  Statement of Capital Woks in Progress  Calculation of Interest on Normative Loan  Calculation of Interest on Working Capital  Incidental Expenditure up to SCOD and up to Actual COD  Expenditure under different packages up to SCOD and	PART SE TICK NA
FORM-20 W Provided ORM-A ORM-B ORM-C ORM-B ORM-C ORM-B ORM-C	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Construction/Supply/Service packages  Details of variables parameters optional package etc. for New Project  Details of time over run  Statement of Additional Capitalisation during end of the useful life  Details of Assets De-capitalised during the period  Reconciliation of Capitalisation claimed vis-a-vis books of accounts  Statement showing details of items/assets/works claimed under Exclusions  Statement of Capital Cost  Statement of Capital Woks in Progress  Calculation of Interest on Normative Loan  Calculation of Interest on Working Capital  Incidental Expenditure up to SCOD and up to Actual COD  Expenditure under different packages up to SCOD and up to Actual COD  Expenditure under different packages up to SCOD and up to Actual COD	PART  PART  NA  NA  NA  NA  NA  NA  NA  NA  NA  N
FORM-20 W Provided ORM-A ORM-B ORM-C ORM-C ORM-B ORM-C ORM-B ORM-C	Details of Statutory Charges yearwise for the period 2019-24  List of Supporting Forms / documents for tariff filing for Thermal Station  Title of Tariff Filing Forms (Thermal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Capital Cost for Gas/Lignite based Projects  Break-up of Construction/Supply/Service packages  Details of variables, parameters, optional package etc. for New Project  Details of cost over run  Details of time over run  Statement of Additional Capitalisation during end of the useful life  Details of Assets De capitalised during the period  Reconcitation of Capitalisation claimed vis-a-vis books of accounts  Statement showing details of items/assets/works claimed under Exclusions  Statement of Capital Cost  Statement of Capital Woks in Progress  Calculation of Interest on Normative Loan  Calculation of Interest on Working Capital  Incidental Expenditure up to SCOD and up to Actual COD  Expenditure under different packages up to SCOD and	PART  PART  Tick NA NA NA NA NA NA V  V  NA



परिगल पीयूम/PARIMAL PRYUSH अपर महाप्रवन्धक (वाणिजियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

H	List of supporting documents for tariff filing for Thermal Stations		_
S.	No. Information / Document		200
1	Certificate of incorporation Continues	m of tariff	Tic NA
2	Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with a Schedules & annexures on COD of the Station for the new station & for the relevant years.	II the	
	Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with a Schedules & annexures for the existing station for relevant years.	l the	1
3	Copies of relevant loan Agreements	-	-
4	Copies of the approval of Competent Authority for the S	4	NA
5	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	1	NA
6	Copies of the Equity participation agreements and necessary approval for the foreign equity.	1	NA
0	Copies of the BPSA/PPA with the beneficiaries, if any	+	NA
	Detailed note giving reasons of cost and time over run, if applicable.	+	1965
Į,	List of supporting documents to be submitted:	-	
,	a. Detailed Project Report	-	
	b. CPM Analysis	+	NA
	PERT Chart and Bar Chart	+	
0	Justification for cost and time Overrun	-	
i.e	senerating Company shall submit copy of Cost Audit Report along with cost accounting records ost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and obsequently consolidated at Company level as submitted to the Govt. of India for first two years e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of reliable Cost Audit Report should be furnished.		
Ar	y other relevant information, (Please specify)	1	-1
Re	conciliation with Balance sheet of any actual additional capitalization and amongst stages of a	N/	
BB	MB is maintaining the second	~	
sul pur	MB is maintaining the records as per the relevant applicable Acts. Formats specified herein y not be suitable to the available information with BBMB. BBMB may modify the formats ably as per available information to them for submission of required information for tariff	NA	

Nan	ne of the Petitioner:	NTPC Lim	Summary of					PART FORM-
Nam	ne of the Generating Station:	Diber 10	ited					rokw-
Plac	e (Region/District/State):	Rinand Su	per Thermal Po	ower Station S	tage-III			
1000	, sales bloth coolate).	Northern F	Region/Sonebh	adra/ Uttar Pra	desh			
S. No.	D 4/	Unit					Amoun	t in Rs. Lakh
1	2		2018-19	2019-20	2020-21	2021-22	2000 00	2023-24
1.1	Depreciation	3	4	5	6	7	2022-23	
1.2	Interest on Loan	Rs Lakh	30,138.22	30,146.92	30,347.15		8	9
1.3	The state of the court	Rs Lakh	18,089.76	15,873.51	12,951.00	30,631.48	30,738.03	30,978.39
1.4	Transfer ou Educty	Rs Lakh	32,658.63	31,092.53	31,317.22	10,720.40	9,223.41	7,564.11
1.5	The cost of two kind Capital	Rs Lakh	6,833.90	5,227.46	4,926.06	31,619.12	31,739.59	31,949.68
1.0	Total	Rs Lakh	20,864.30	25610.14		4,553.18	4,742.82	5,783.43
_	Total	Rs Lakh	1,08,584.80	1,07,950.57	28170.85	29621.63	32728.14	40546.9
2.1	Landed Fuel Cost of coal as per FSA approved by beneficiaries	Rs/Ton	1,698.87	2,228.61	1,07,712.29 2,248.06	1,07,145.81	1,09,171.99	1,16,822.56
	(%) of Fuel Quantity	10.1			2,240.00	2,161.19	2,422.66	2,409,13
	Landed Fuel Cost of Imported	(%)	97.12%	100.00%	100.00%	100.000/		
2.2	Coal as per FSA approved by beneficiaries	Rs/Ton			N/	100.00%	100.00%	100.00%
	(%) of Fuel Quantity	(%)						
2.3	Landed Fuel Cost of coal other than FSA	Rs/Ton	5,890.58		NA			
	(%) of Fuel Quantity	(%)				NA		
2.4	Landed Fuel Cost Imported Coal	(70)	1.11%			NA		
- 1	other than FSA.	Rs/Ton	6,663.22			1000		
	(%) of Fuel Quantity	(%)	755255 53555			NA		
2.5	Secondary fuel oil cost	Rs/Unit	1.77%	92.1305		NA		
		KS/OIII	0.03	0.03	0.03	0.02	0.00	4
	Energy Charge Rate ex-bus 2A, 2B, 2C, 2D	Rs/Unit	1.30	1.40	1.41	1.40	1.47	1.54

परिमल पीयूब/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिजियक) Addi, General Manager (Commercial) एन दी जी औ जिस्सिक WIPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

(Petitioner)

Name of	f the Petitioner:	1				PAR
	f the Generating Station:	NTPC Limited				FORM- 1
	g - mao	Rihand Super	Thermal Powe	er Station Stag	e-III	
	Statement s	showing claimed c				nt in Rs. Lakh
S. No.	Particulars			(+B)		- Luit
1	2	2019-20	2020-21	2021-22	2022-23	2023-24
1	Opening Capital Cost		4	5	6	8
2	Add: Addition during the year	5,51,385.35	5,52,243.39	5,59,360.69	5,62,959.20	5,63,636.68
3	Less: De-capitalisation during the year	546.88	6,539.39	2,936.01	691.34	7,260.37
4	Less: Reversal during the year	-180.66	-1,138.01	-197.16	-734.98	-966.77
5	Add: Discharges during the year			-		-900.77
6	Closing Capital Cost	491.83	1,715.92	859.66	721.13	044.40
7	Average Capital Cost	5,52,243.39	5,59,360.69	5,62,959.20	5,63,636.68	641.10
	J- Japitar Oost	5,51,814.37	5,55,802.04	5,61,159.94	5,63,297.94	5,70,571.38
	500					5,67,104.03
No.	Statement showing claim Particulars	ed capital cost elic	ible for RoE at	normal rate //		
1		2019-20	2020-21	2021-22		
	2	3	4	5	2022-23	2023-24
	Opening Capital Cost	551385.35	552243.39	559360.69	500000	7
	Add: Addition during the year	546.88	6539.39		562959.20	563636.68
	Less: De-capitalisation during the year	-180.66	-1138.01	2936.01	691.34	6955.22
4	Less: Reversal during the year	0.00	0.00	-197.16	-734.98	-966.77
5	Add: Discharges during the year	491.83		0.00	0.00	0.00
	Closing Capital Cost	552243.39	1715.92	859.66	721.13	641.10
7 /	Average Capital Cost	551814.37	559360.69 555802.04	562959.20 561159.94	563636.68	570266.23

परिमल पीयूष/PARIMAL PIYUSH जपर महापबन्धक (वाणिजियक) Addl. General Manager (Commercial) एक टी वी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)



	of the Petitioner:					PART
Name (	of the Generating Station:	NTPC Limited				FORM- 1
	Jane Jane Jane Jane Jane Jane Jane Jane	Rihand Super	Thermal Power	r Station Stage	-111	
					Amount	in Rs. Lakh
	Statement showing claimed capit	al cost eligible for D				To. Euro
. No.		on actual loan portfe	ob at weighter	d average rate	of interest	
1	Particulars	2019-20	SHO (D)			
1	2	3	2020-21	2021-22	2022-23	2023-24
-	Opening Capital Cost	0.00	4	5	6	7
			n no	0.00		
2	Add: Addition during the year		0.00	0.00	0.00	0.0
3	Add: Addition during the year Less: De-capitalisation during the year	0.00	0.00	0.00	0.00	
	Less: De-capitalisation during the year			0.00	0.00	305.14
3	Less: De-capitalisation during the year Less: Reversal during the year	0.00	0.00	0.00	0.00	305.14 0.00
3	Less: De-capitalisation during the year Less: Reversal during the year Add: Discharges during the year	0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	305.14 0.00
3 4 5 6	Less: De-capitalisation during the year Less: Reversal during the year Add: Discharges during the year Closing Capital Cost	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00	305.14 0.00 0.00
3 4 5	Less: De-capitalisation during the year Less: Reversal during the year Add: Discharges during the year	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 305.14 0.00 0.00 0.00 305.14

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिण्यिक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Name	of the Petitioner	On Equity at No	mal Rate			PART
Name	of the Generating Station	NTPC Limite	d			FORM- 1(II)
		Rihand Supe	r Thermal Pov	ver Station Sta		
S. No.	Particulars			c. otadon sta		
1	2	2019-20	2020-21	2021-22	2022-23	nt in Rs. Lakh
	Return on Equity	3	4	5	6	2023-24
1	Gross Opening Equity (Normal)				-	7
2	Less: Adjustment in Opening Equity	1,65,415.61	1,65,673.02	1,67,808.21	1.00.00===	
3	Adjustment during the year	-	-	101,000.21	1,68,887.76	1,69,091.01
4	Net Opening Equity (Normal)				-	
5	Add: Increase in equity due to addition	1,65,415.61	1,65,673.02	1 67 800 54		
7	Add: Increase in equity due to addition during the year	164.06		1,67,808.21	1,68,887.76	1,69,091.01
8	Less: Decrease due to De-capitalisation during the year	-54.20	1001,02	880.80	207.40	2086.57
9	Less: Decrease due to reversal during the year	0.00	-341.40	-59.15	-220.49	-290.03
10	Add: Increase due to discharges during the year	147.55	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	The state of the s	514.78	257.90	216.34	192.33
11	Average Equity (Normal)	1,65,673.02	1,67,808.21	1,68,887.76	1,69,091.01	
	Rate of ROE (%)	1.65,544.31	1,66,740.62	1,68,347.99	1,68,989.38	1,71,079.87
13	Total ROE	18.782%	18.782%	18.782%		1,70,085.44
		31,092.53	31,317.22	31,619.12	18.782%	18.782%
				51,010.12	31,739.59	31,945.45

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Name	Statement showing Return on Equity a of the Petitioner:	t weighted Averag	e Rate of Inter	est		PART
Name	of the Generating Station:	NTPC Limited				FORM- 1(IIA
	g otation.	Rihand Super T	hermal Power	Station Stage II		
S. No.	Particulars			otation otage-i		
1	2	2019-20	2020-21	2021-22		it in Rs. Lakh
	Return on Equity @ Weighted 4	3	4	5	2022-23	2023-24
1	Return on Equity @ Weighted Average Rate of Interest Gross Opening Equity (Normal)			-	0	7
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00		
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.0
4	Net Opening Ferrit (A)	0.00	0.00	0.00	0.00	* 0.0
5	Net Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.0
7	Add: Increase in equity due to addition during the year	0.00	0.00	0.00	0.00	0.0
8	Less: Decrease due to De-capitalisation during the year	0.00	-	0.00	0.00	91.5
9	Less: Decrease due to reversal during the year	0.00	0.00	0.00	0.00	0.00
10	Add: Increase due to discharges during the year	0.00	0.00	0.00	0.00	0.00
-	Net closing Equity (Normal)		0.00	0.00	0.00	0.00
11	Average Equity (Normal)	0.00	0.00	0.00	0.00	<sub>*</sub> 91.54
12	Rate of ROE (%)	0.00	0.00	0.00	0.00	45.77
13	Total ROE	9.18%	8.61%	8.34%	8.81%	9.24%
		0.00	0.00	0.00	0.00	4.23

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (दाणिज्यिक) Addl. General Manager (Commercial) एन टी ग्री सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Name of the Company:		P/
Name of the Power Station:	NTPC Limited	FOI
	Rihand Super Th	ermal Power Station Stage-8
Plant Characteristics		Station Stage-
Unit(s)/Block(s)/Parameters Installed Capacity ( MW)		
Schedule COD as per Investment Approval	Unit-I	Unit-II
Proceedings of Colonia of Taken Constitution	500 NA	500
	19.11.2012	NA NA
Name of the Boller Magnifecture	18,77.2012	27.03.2014 Pit Head
Name of Turbine Generator Manufacture		
Main Steams Pressure at Turbine infet (kg/Cm <sup>-1</sup> ) abs <sup>-1</sup>	-	
main aceam Temperature at Turbina inter (%) 1		
Romest Steam Pressure at Turbing inter (kniff)		
Noticel Steam Temperature at Turbine inter the 1		
main Steam flow at Turbine inlet under MCP		
The state of the s		
and a second complete under MCS (Bated) and attended to the second		
Suaranteed Design Gross Turbine Cycle Heat Rate (RCallkWh)3		
Conditions of the Control of the Con		
onditions on which design turbine cycle heat rate guaranteed		
Makeup Water Consumption		N/A
esign Capacity of Make up Water System (DM)m³/mr		
ASSET SOMEWHY OF THEE LOCKING SOURTH AND THE		
esign Cooling Water Temperature (°C)		
eck Pressure(mm Hg abs)		
earn flow at super heater outlet under BMCR condition (tons/hr)  earn Pressure at super heater outlet under BMCR condition) (kg/Cm2)  earn Temperature at super heater outlet under BMCR condition) (kg/Cm2)		
earn Temperature at super heater outlet under BMCR condition (Ro/Cm2) from Temperature at Sub-suber outlet under BMCR condition (DC)		
sign / Guaranteed Boiler Efficiency (%)		
sign Fuel with and without Blending of domestic/imported coal		
se of Cooling Tower		
pe of cooling system <sup>®</sup>	Induced drauget o	pe Cooling lower (IDCT)
e of Boiler Food Pump®	Cla	sed Cycle
490.00 MOON - 300 MOON - 500 MOON		
e of coal Mill	2X90% Steam Driven	1X50% Electrical Driven for
4-3-3-11-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	65	ach unit
Details		
nery Fuel ondary Fuel		
ondary rue!		Coal
***	LDO after Hon ble Supre	eme Court order 24.10.2017
mate Fyels		n w
8 of SOX control sustant	LDO LDO	) 13029/1985.
s of NOX control system		mplementation
is of SPM control system		ingramentation
ial Features/Site Specific Features*		SP
	1	
	1	- 1
al Technological Features <sup>3</sup>		
onmental Regulation related features **		
- general relative realities "	1.ESP is provided	
	<ol><li>DeNOx (Combustion M.</li></ol>	odification) System
	provided:	
	2.FGD under implementati	an

परिमल पीयुष/PARIMAL PIYUSH
अपर महाप्रवासक (दावितिसम्म)
Addi. General Manager (Communicial)
एन दो पी सी निर्मिटेड/NTPC LIMITED
EOC, A-8A. Sector-24, Noida-201301 (U.P.)

HOTHIGHTY .	parameters (	considered fo	or tariff comp	utations			PAR
Name of the Petitioner:	NTPC Lin						FORM
Name of the Generating Station:	Rihand St	iper Thermal	Power Static	n Stage-III		-	
Particulars						(Year End	ing Mass
Particulars	Unit	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Base Rate of Return on Equity at normal r.	2	3	4	5	6	7	B
Base Rate of Return on Equity on Add.	at %	15.50%	15.50%	15.50%	15.50%	15.50%	15.50
Capitalization at Weighted Average Rate of Interest on Loan	f %	7.63%	7.58%	7.10%	6.88%	7.27%	7.62
Effective Tax Rate	%	21.55%	17.47%	17.47%	19.000		
Target Availability	%	85.00%	85.00%	The state of the s	17.47%	17.47%	17:47
In High Demand Season	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.009
Peak Hours	96	85.00%	85.00%	85.00%	85.00%	85.00%	85.009
Off-Peak Hours	%	85.00%		85.00%	85.00%	85.00%	85.00
n Low Demand Season(Off-Peak)	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.009
Peak Hours	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.009
Off-Peak Hours	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.009
Auxiliary Energy Consumption	%		85.00%	85.00%	85.00%	85.00%	85.00%
Pross Station Heat Rate	kCal/kWh	5.75%	6.25%	6.25%	6.25%	6.25%	6.25%
pecific Fuel Oil Consumption	milkWh	2402.07	2358.84	2358.84	2358.84	2358.84	2358.84
ost of Coal/Lignite for WC	in Days	0.50	0.60	0.50	0.50	0.50	0.50
ost of Main Secondary Fuel Oil for WC	in Months	45	40	40	40	40	40
uel Cost for WC	in Months	2	2	2	2	2	2
quid Fuel Stock for WC	T. T. C. C. T. C.						
2M Evpones	in Months						
a Managan Const. It was	Rs lakh/MW/	20.43	22.51	23.30	24.12	24.97	25.84
econyables for MC	% of O&M	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
orage capacity of Primary fuel*	n Days	2months	45.00	45.00	45.00	45.00	45.00
3I 1 Year MCLR plus 350 basis point	MT %			8.9 lakh M	T		
ending ratio of domestic coal/imported coal	70	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%

परिमल पीयुष/PARIMAL PIYUSH
अपर महाप्रवन्धक (पारिपरियक)
Addi, General Manager (Commercial)
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

परिमल धीयुष/PARIMAL PIYUSH अपर पहार्थ्यसम्बद्धाः Addl. General transport एन ही दी शर्ग हिल्लाहरू

Part-I FORM-3A ADDITIONAL FORM

### Calculation of O&M Expenses

Name of the Company: NTPC Limited

Name of the Power Station: Rihand Super Thermal Power Station Stage-III

S.No	Particulars				Amount in	Rs. Lakh
1	- articulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	08M 04men - 2	3	4	5	6	*
	O&M expenses under Reg.35(1)				- 0	- 1
	Normative	22540.00			Lancing Co.	
2	O&M expenses under Reg.35(6)	22510.00	23300.00	24120.00	24970.00	25840.00
2a	Water Charges					
2b	Security expenses	466.24	466.24	466.24	466.24	477.83
2c	Capital Spares*	1244.50	1535.62	1251.15	1503.19	1667.45
3	O&M expenses-Ash Transportation**	1389.40	1791.07	1217.69	1847.84	5355.02
_		0.00	1077.92	2566.56	3940.88	7206.65
	Total O&M Expenses	25610.14	28170.85	29621.63	32728.14	40546.95

\*Capital spares: The above amount for Rihand-III is by apportioning the capital spares for Rihand-I, II & III based on MW installed capacity.

\*\*Hon'ble commission vide its order dated 28.10.2022 in petition no 205/MP/2021 had allowed the Ash transportation expenses of Rs 0 Lakhs, Rs 3125.21Lakh, Rs 7229.05 Lakhs for the period from 2019-20, 2020-21 & 2021-22 after accounting for the revenue earned through sale of ash for the Rihand Station (Stage-I, II and III combined), as per the audited data submitted by the petitioner, Also, Hon'ble commission had allowed the provisional billing at 90 % of the ash transportation expenses incurred by the petitioner for the tariff period (i.e. 2022-24). The details of same apportioned for Rihand-I, II & III provided in Annexure-1.

(Petitioner)

परिमल पीगुष/PARIMAL PIYUSH अपर महाप्रवन्धक (ट न्निटिस्ट) Addl. General Manager (Go municial) रिन टी भी ती लिमिटेड/NTPC L/M/TED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Statement of Ash Transportation Expenses  ADDITIONAL  Issue of the Petitioner:  Issue of the Generating Station:  NTPC Limited  Rihand Super Thermal Power Station Stage-III  S.No. Particulars  UOM 2019-20 2020-21 2021-22 2022-23 2021  Total Ash Transportation Charges Incurred, Rihand  Rs. Lakh 11.90 3,364.53 7,229.05 11,810.27 21.2
S.No. Particulars UOM 2019-20 2020-21 2021-22 2022-23 2021  Total Ash Transportation Charges Incurred, Rihand Roll alto
S.No. Particulars UOM 2019-20 2020-21 2021-22 2022-23 2021  Total Ash Transportation Charges Incurred, Rihand Roll alto
S.No. Particulars UOM 2019-20 2020-21 2021-22 2022-23 2021  Total Ash Transportation Charges Incurred, Rihand Roll alto
Total Ash Transportation Charges Incurred, Rihand Politics 2019-20 2020-21 2021-22 2022-23 2021
Total Ash Transportation Charges Incurred, Rihand Pollates 1100 2021-22 2021-22 2022-23 2021
Scarch 11.90 3,384.53 7.229.05 11,810.27 21,2
4 Income from sales of Ash, Rihand Station   De Lake   14.00
S INSE Ash Transportation Charges Rihand Station Re Lake
4 Station Stage-III - 1,077.92 2,546.58 3,040.69 3,040.69 3,040.69
5 Ash Trans. Charges- Rihand Super Thermal Power Rs Lakh - 928.63 2.509.71 7.577.04
6 Ash Trans. Charges-Rihand Super Thormal Power
Station Stage-it Rs Lakh - 1,118.65 2,153.78 4,210.75 6,75
te- Ash Transportation charges from 2019-20 to 2021-22 were allowed by Hor/ble Commission vide its order dated 28.10.2022 in Petition 5/MP/2021 which is pro-rated based on Scheduled Generating (SG) in different stress.

वापर महिमल वीयुष/PARIMAL PIYUSH
Addi. General Manager (Commercial)
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Form-4

DETAILS OF FOREIGN LOAMS

(Details only in respect of loans applicable to the project under pestion)

Name of the company Warne of the Power Station Exchange Rate as on

NTPC LIMITED

Riband III

31-03-2019 USD = Ms.

69.77 EUR = 10s. 78.84

0.6343

Financial Year (Starting from COD)	20	19-20 (01,04-2019	to 31,03.2	0201	25	D-21 (01 D4 262	0 to 31 03 3	0000			San day	(Amount in La
5.425 % Euro Bonds 2021	Date	Amin or other	3	4	1 1	2	3	4		021-22 (01.04.2	021 to 21,03	20221
Currency 1 USD	14-01-2019	Amount (FC)	Ex. Rate	Amount@NR	Date	Amount (FC)	Fy Bate	Arrount (NR)	-	2	1	4
At the date of drewl	01-04-2019	435.25	94.00				200	PHYSICAL SHIP	Date	Amount (FC)	Ex. Rate	Amount (Ne
den repayment upto provious period	41.01.0019	878.45	69.77	51,289.46		676.45	69.77	01,289,49		1000000		-
oc loan at the Boginning of the period	01-04-2019	878.45	69.77		2016 C //TO		40.11	U1,2009 (4)		878.45	69.77	61,289
checker repayment date of principal	01.04.20/0	8/8/40	69.77	61,289.46	01-04-2020	878.45	66.77	61,299.46	NE NE OWNER		0.000	- YALES
cheduled payment date of interest	14-07-2019	7777		11/21/2015	SECTION ST		39.17	01200.46	01-04-2021	878.45	69.77	51,209
remoting tex including surcharge on interest	14-07-2019	24,71	69.77	1,723,77	14-07-2020	24.71	69.77	1.728.77	14-07-2021	878.45	.09.77	51,269
Produce repayment date of principal	14-01-2019	6,90	59.77	401.07	14-07-2020	6.95	59.77	481.07	14-07-2001	20.66	69.77	1,455
Cheduled payment date of interest	14-01-2000						3477	401.07	14-07-2001	5.83	69.77	408
remarked one-street, and probability and probability	14-01-3000	24.29	69,77	1,723.77	14-01-2021	24.71	69.77	4 704 000				
t the end of Financial year	31-03-2000	6.90	69.77	481.67	14-01-2001	6.90	60.77	1,723.77	14-81-2021		59.77	
	31-03-2000	878.46	69,77	61,289,46	31-05-0001	878.46	46.77	491.67	16-01-2021	.0	89.77	
			3115			-	44.77	51,289,46	31-03-2022		69.77	

Emercial Year (Starting from COD)	20	19-20 (01.64-2016	00 21 03 2	20.584				recent in Lace)				(Amount in Lacs)				
4.75% Eurobands 2022	1	2	3	4	1 20	20-21 (01.04.203	0 to 31.01.3	1021)		1921-22 (61.04.2	021 to 31.03	20221				
Currency 1 USD	Date	Areguni (FC)	Ex. Plate	Amount (INR)	Date	Amount (FC)	5 3	4		2	3	4	, 29	22-23 (01.04.20)	22 to 31 01	2025
At the date of drawl	02-10-2018			1000000	-	- CEISARCIP-I	Ex. Rate:	Amount (BIB)	Dista	Amount (FC)	Ex. Rate	Amount (INR)	Date		3	4
dati repayment upto previous period	01-04-2018	479.65	69,77	33,454.63		479.05	59.77	33,464 (83				The same of the same	Date	Amount (FC)	Ex Rate	Amount (
let loan at the Beginning of the parent	01-54-2019	270.00	0.00				200,77	20,494 (E)		478.65	09,77	33,464,80		479.55	80.77	-
checuse repayment date of principal	2.24.5010	479.55	69.77	33,484.83	01-94-2020	479.55	59.77	33,464.83	01-04-2021					41300	59.77	33,464
cheduled payment date of interest	02-04-2016	11.30	89.77	-				99,404.03	01-04-2021	479.65	69.77	33,464,63	91-04-2022	479.65	49.77	33.464
Witholding the including surcharge on interest	02-04-2019	0.66	60.77	794.79	02-04-2020	11.39	49,77	794 79	00-04-5021	11.30		1000	2010/00/20			,33,466
Synodure repayment date of grindpal		2.00	300.17	40.99	02-04-2025	0.66	69.77		02-04-3001	0.66	86.77	794.79	02-04-2002	11.39	69.77	794
Cheduled payment date of interest	02-10-2019	11.39	89.77	794.70	02-10-2020		- 785 13	1000	100100000000000000000000000000000000000	0.00	09.77	45.93	02-04-2022		60.77	45
Amording tax including surcharge on imarest At the end of Financial year	00-10-2019	0.66	- 69.77	45.00	00-10-2020		69.77	794.79	02-10-2021	11.39	69.77	900 / 900	02-10-2022	479.85	69,771	
Con the or Pittalities year	31-03-2020	479.66	69.77		31-03-2021		66,77	45.90		0.65	69.77		02-10-2022	11.38	69,771	
		1. T. A. V.		12-744-76	27.34.6561	679.68	49.77	33,464.83	31-03-2022	479.65	69.77	33,464.85	00:10:2022 02:10:2022	0.96	69,77	4

	Patencial Year (Starting from COD)				
	The country of the country	201	9-20 (01.04.2018	to 31,03.2	(020)
	SBI, New York		2	3	4
À.,	Currency 1 USD	Date	Although (FC)	Ex. Rate	Amount (9)
t.	At the date of drawl	16-11-2018			0.12
	Little repayment upto previous period	01-04-2019	12.09	69.77	6.883.08
	Not ben at the Beginning of the period				
1	Schedule repayment date of principal	01-04-2019	83.69	69.77	5,853.04
Ç.	Scheduled payment date of interest			1000	
į,	Witholding tile including surcharge on interest	15-05-2019	1.79	69.77	125.33
	Streduled payment date of interest	15-05-2019	0.01	69.77	0.72
ı	Websiding tax including surcharge on interest	29-07-2019	0.74	69.77	51.65
	Schedula repayment date of principal	29-07-2019	0.0043	69.77	0.30
Ü	Scheduled payment date of interest	29-07-2010	41.00	09.77	2,925.52
Ğ.	Withouting tax including suncharge on interest	29-01-2020	0.91	69.77	63.66
	Schedule repayment date of principal	29-01-2020	0.0063	69.77	0.57
-	At the and of Financial year	29-01-2020	41.35	69.77	2,929,52
	Or me dried of Assessment Asses.	81-03-2020	4.1	0.00	2000000

(Petitioner)

Form-4

परिमल पीयुष/PARHMAL PIYUSH
Addi. General Manager (Commercial)
EOC. A-BA, Sector-24, Noida-201301 (U.P.)

		,	PART FORM-	
AD	stract of Admitted Capital Co	ost for the existing Projects		
realite of the Company:	NTDC Limited			
Name of the Power Station :	Rihand Super Thermal Pov	wer Station Stage-III		
Last date of order of Commis-	No. f. W			
or order or Commis	sion for the project	Date (DD-MM-YYYY)	27 12 200	
Reference of petition no in wi	nich the above and	1/4	27-12-202	
Reference of petition no. in which the above order was passed		Petition no.	430/GT/202	
Following details (whether adm period for which tariff is appro-	litted and /or considered) as or	n the last date of the		
The second secon	ved, in the above order by the	Commission:		
- CP 100 COSI 813 OH 3 ( 113 20124			7.00 2	
Amount of un-discharged liability orming part of admitted capital	ites included in above (&	1	5,63,837.35	
mount of un-discharged link if	costy	1 1		
rmount of un-discharged liabilit dmitted capital cost (but not fo	les corresponding to above			
ost being allowed on cash bas	orming part of admitted capital	1	15 105 00	
		(Rs. in lakh)	15,165.63	
ross Normative Debt as on 31	03.2024	(Ka. III lakil)	20100	
umulative Repayment as on 3 let Normative Debt as on 31.03	1.03.2024		3,94,686.15	
ormative Equity as on 31.03.20	.2024		3,13,416.92	
umulative Depreciation as on 3	1 02 2024		81,269.23 1,69,151.21	
eehold land	11.03.2024		3,13,416.92	
		<u> </u>	148.90	
			140.00	

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिचियः) Addi. General Manager (Commercial) एन टी वी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

(Petitioner)

		PART FORM-	
		ADDITIONAL FOR	
Abstract of Claimed Capital	Cost for the existing Proje	ects	
NTPC Limited			
Name of the Power Station Rihand Super Thermal I	Power Station Stage-III		
Reference of Final True-up Tariff Petition	- man and the second se		
Capital Cost as on 31.03.2024 as per Hon'ble	Affidavit dated		
430/GT/2020.	Po Latt.		
Adjustment as per Para 12 i.e. capital cost as on	Rs. Lakhs	5,63,837.3	
31.03.2024 as per present true-up petition.	- 6	0.704	
Following details as considered by the Petitioner as up tariff is claimed:	on the last date of the per	6,734.03 riod for which final true-	
Capital cost as on 31.03.2024			
The state of the s		F 70 F74 44	
Amount of un-discharged liabilities included in above (8 orming part of admitted capital cost)		5,70,571.38	
mount of un-discharged liabilities corresponding to	1		
dmitted capital cost (but not forming part of dmitted capital cost being allowed on cash basis)		10,953.73	
ross Normative Debt as on 31.03.2024	(Rs. in lakh)		
umulative Repayment as on 31.03.2024	-	3,99,399.96	
et Normative Debt as on 31.03.2024	+ +	3,12,923.21	
ormative Equity as on 31.03.2024		86,476.75	
umulative Depreciation as on 31.03.2024	-	1,71,171.42	
eehold land	+ -	3,12,923.21	

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (हाणिदिक्क) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Statement Giving Details of Project Fluoreent Movegh a Commissation of lease Folio 8

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परिमल शियूष/PARIMAL PIYUSH
अगर महाप्रकृष्ट्यक (कार्तिकारक)
अगर महाप्रकृष्ट्यक (Comm. dail)
Addi. General Manager (Comm. dail)
एनं टी पी भी लिमिटेड/NTPC LIMITED
EOC. A-8A. Sector-24, Noida-201301 (U.P.)

DP NO 485030001	Pore il TRAVEHENO	
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	named of Street, or other Party	Cera Bace
Dispasse of Loan	Supplier & Ch	A CONTRACTOR OF THE PARTY OF TH
(Corrence)	Spratona Sank-F	
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Total Dates: Amount:	8 80 80 cg 808	
Clate of Dreval	5.00.00.00.000	
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9-1-1-2		2000 19170 19100 1910
Total Allocation	Amount	5.08.00.00.000.00

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59	sensed Loan From Side	/I	-	
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Cutorioni.	1000			
Amount of Loan:	1.30.00,00.50.000			
Total Diasen arequist	8,00,00,00,000			
Side of chase	SEE 2011			
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Figure 1 (Same)	2.000.0		7	
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alan (Note any Capel Floor)	Trini		1.5	
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A Above to jest, appeals Care.	Action by			
Ploer:	Market Street	1-1-		
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Papaytees Paried (Inc.	08.07.2011		7	
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and Repaigment Date	30.08 20%			
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rate of Make Systematics Rate	N.A			
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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयूक्ता (क. कि उंग्र का Addi. General Manager (up an एन टी भी सी लिमिटेड/NTPC LIMITEO EOC, A-8A, Sector-24, Noida-201301 (U.P.)

AP NO 1000000001	TRANSCHE NO.	DWORGS
- 01	RECEIVED LANGE FROM SHE AND	Lancon .
Sinurge of Loan:	SELVE .	
Christice	069	
Altowed of Loan :	3,80,80,00,00 mm	
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Managle Hump	TZ Years	
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Yogget Color	Project Name	Altours
	DRIHAND-W	60,00 (0 800 60) vi
	WOUGH!	40,08,00 and 90/31
		50000 E.E.E.E.E.
Total Affanan	M Amount	1,06,80,00,000.00

TODOEY DODGET

SP 50 3000000281	Form 8 MIAACHE 600 T08001	Doors			
Live	virtured Loan From SELVE		-		
Source of Lease	- Laboratoria		-		
Sexto.	508-54		7		
Amount of Laws	968				
Telat Crewit account.	1,08,00,40,06,555		-		
Date of 4 aug.	D.00.00 IS 600	1.7			
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And Shark May Cope! Floor	NO.				
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AND RESIDENT	Tin.				
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	ALCOHOL:	1,45,80,06,000,00	21 04 20/2	T00001	CODECC
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	TANON RAW	\$ 00,00 pcm mo	2104.2013	109061	Dipology
Telel Allocate	d Amount	8.00.00.00.000.00			
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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (दर्गगिक्सिका) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) | Form |

BP NO 5950000041	Form # TRANCHE NO TECRO1	Dences			
- Un	RECEIVED LINES FROM SERVICE	Louise	7		
State of Logic	380.WI		1		
Currence	NAME OF THE OWNER				
Attours of Loan	1,80,80,00,80,800				
Time Dated amount	5 NO 80 og opp		4		
Date of Drawt	21.04.2012		70		
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Ack Obese and Clacky Program	ndi.				
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gan auchange Rate	20 00 2015 21-55 6		1		
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	WOUTH	1,00,00,30,000,00	310k 2012	100001	080806
	ACHANDAR	\$2,6900W-9000 (B)	34 08 2092 ·	Fedgoti.	000006
	50L62u8	MIL BOLDE, GROS (SE)	31.08.2045	760801	
	SARMOHAR PARK	96,50,56,r80 63	31.082012	100000	Diogoas
	KAMANG RAM	28,00 80,000 ap	91.00,2012	709061	DROUGH.
	SOFE CONTRACTOR	40.08,00 808 NO	54 OR 5015.	Todout	200000
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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणितिकाक) Addl. General Manager (Communical) एन दी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

RP NO 5050000001	From 8 TRANCHE NO TOBOS1	200007		
194	PROPERTY AND A PROPERTY AND A PARTY AND A			
States of Loan	WELCO .			
	\$85-50		7	
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Montforjum, at holina fram	10.11.2012		-	
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Stiplyment Type:	AUG -		4	
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	MINERY/ACHALIN	25,00,00,000	12.11.2012	T08001 (300007
	TAPOWAM	20,89,05,060	12.113612	T60601 CKSKKPT
	HARVI .	26,80,08,080		TROUGH TROUGHT
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	KI/0341	45,08,00 gos	12 11 3012	TORGET DROBLE
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	ABN COLAR PV	5,00,00,000	12.11.2012	TROUGH (000007)
	SAGARLU I MW	5,80,00,000	12 11 2012	TRODO! DOBOBY
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परिमल गीसूष/PARIMAN कार USH अपर महास्रकारक Adm. Gamera Marian एम हो ्या स्टिक्टिंग हरू | Prince | P

DP NO SESECTIONS	TRANCHE NO. TRANCHE NO.	000011			
Vint.	Named Loan From Street	11			
Source of Laws	SELVE	11.	7		
OWNER	BAR .	and the same of th			
Amount of Lower	1,80,86,86 to per				
Total Drawn amount :	1.00 go.ca.cox				
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Are there pay Gapy Flace	N/N				
History of Int. Payment	Mostrie		- 1		
Above is yes, specify Clapso	WORLDS.		7		
Flex					
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lave Exchange Rate	PLPSE				
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	Project Aleme READVOL'S	Account	20020000119		
	KINDSTRACEMA.N	1,90,00,00,900	\$21,08,2013	100001	DROOM
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111111111111111111111111111111111111111	-	3,08,30,80,000,00	1		Petrice

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परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाशितिकाक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

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परिमल पीयुष/PARIMAL PIYUSH Addi. General Manager (Commercial) एन दी भी ती निमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

9 FFN DROS21 0 10% DROS21 9 10% DROS21 9 10% DROS21 8 10% DROS21 8 10% DROS21 8 10% DROS21 8 10% DROS21

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Segment Boards of Lean : SEE HOR 564-cm 549 1-08-06-80-08-080 11-80-80-08-080 14-08-8017 E-948/rg Flace Morabotum Period Morabotum effective flace Recoyment Period (the 15 Years 3 Yearly Installments APA 10 01 2002 BUPS N.A. Mostorium)
Asportunt Frequency
Hopeyment Frequency
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Date Sections Section Project Code | 100.00.00.001 | 14.60.101 | 15.20.17 | 14.00.101 | 15.20.17 | 15.20.17 | 14.10.2017 | 15.20.17 | 14.10.2017 | 15.20.17 | 14.10.2017 | 15.20.17 | 14.00.2017 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.17 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | 15.20.2017 | HARRIA GENERALADA FARARIA EL GADARRIARA EXELUMBI 6 60% GOODEN 8 80% DOOGS 8 50% DOOGS EXE DAM

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परिमल पीयूष PARIMAL PIYUSH
अत्यर महाप्रकारक (Comparison)
Add. General Manager (Comparison)
एन दी पी सी लिनिटेड / NTPG LIMITED
EOC. A-8A, Sector-24, Novide-201301 (U.P.)

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THANKINE FOOD

GP Not beresconder

Debeticated Lean Food Compension Bank 48
Section of Elia:

Composition Food 49
Section of Elia:

Composition of

EP no sessocioni	Form 6 TRANSCHE NO TRANSCHE	0000	W.
Unsepare	Liamen Preven Composition to	ent-41	es.
Total Control of the		No. of the last of	-
Scarpt of Liver	Corporation Bank III		
Currente:	JAR.		
Assault of Loan	5 80 00 00 000		-1
Total Drawn astraust	50,08,00 906		7
Date of Cytonia	21.01.2014		4:
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Physic of Indepent as on ET O4.25	150.20%		-
Margin, if Ploating Interest	TWI.		-
Are there any Capal Pleas:	CON		-10
Editional of the Payment	MONTH.		-
if Alteys is pee, agently Cape.			1
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Repayment Period-ding	Process of the Park		- 5
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Date of Black Exchange Fara	NA.		100
	100	T	
Nesed Ceda	Project Name	Amount	
Value of the last	BHARS-B	30090.00-000	20.00
fold disease	id Amovet	50,80,00,000	101.01

Petitionel

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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाकिविवक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) | Power | Process | Power | Po

BP NO SERVICEORDO & 231	Form 8 TRANCHE NO T00801	Dogogo
Desecut	Id Loan Free HOFC Back Li	4.0
Town of the		
Source of Laws	HOFG Bank LtdII	
Gir Netoy	190	
Amount of Lare :	10 80 08 00 808	
Total Crown grount	545 30 30 000	
Onto at Arbeit	28.31.2015	
Manual Type:	Fleating	
Rigin of Interest as en 01, 94 (c)		
Margie, if Philipping Interest	MI	
Are from any Case From:	5094	
Property of the Payment	MONTHLY	
of Acove is yes, specify Capital Flace:	Carrent .	
MacMatum Period:	3 Years	
Moratorium affective from	20 15 2010	
Repayment Period (Inc.	80 -846/6	
Mossionium I	10 Years	
Expansion Frequency:	54 Hell Yearly Installment	
Represent Type	NAS	
One Repayment Owle	28.04.2014	
SSAR Exchange Rate:	PLPS!	
Date of Easte Sucharge Alake	NA.	
Vojed Carle	Claim Name	
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	SKOLDAM	30 90 00 000 24 43 30
Total Albert		26:30,80,000 (A, ch 201
Lagar source		38,30,90,060

Petitioner

परिमल पीयूष/PARIMAL PIYUSH
अपर संशापकार्यक (काणिडियक)
अपर संशापकार्यक (काणिडियक)
Addi. General Manager (Commercial)
एन टी भी सी लिमिटेड/NTPC LIMITED
EOC, A-8A, Sector-24, Noida-20(301 (U.P.)

Statement Giving Datate of Project Financed through a Combination of Man

#F 100 50706060011	TRANSPER NO TORONS	Second	
Tintac	Stig Law Press HUDGO L	10.	
Devete of Logic:			
Cartetie	Hubco LTD-I		
Awount of Loan :	949		
Total Distance amount	20.00.00.60.606		
State of chipsel	1,50,50,00,000		
Inforest Train	09.12.2015		
Park of Park	Plostra		
Rate of woment as on or 52 To			
Margin, If Floriding Interest	186		
Are Back any Copp Flant	5.79		
Precision of life, Payment Patients is yes, specify Caper	Monthly	1	
Mark			
Macabasses Period :	3 Years		
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epayment Fwied (Inc.	- Annual Control		
Mossbergero	14 7/1004		
emphosol Europeany	22 Half Yearly Institution's		
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Link Repayment Cally	21.09.2014		
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	KINDHYACHAL IV	\$5,05,50,000,00	2.20
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GF tex sonoscorts)	TRANCHE NO. TORON	306001			
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Telal Orper account:	11 E 00 00 000		-		
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Repayment Ferrad (inc.)	THE STATE OF		1		
Mentecardo	12 Years		1		
Statement Proceedings.	54 Half Yearly Invisional		4		
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First Receive on Disse	29 (2.20+2		1		
Nime Enthango Rate	SLPSE.		4		
Outp of illase from engo Rate:	NA		4		
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	янири:	10,00,00,000,00	30.04.2000	Teorgra	00000
Total Aboustin	f Artrospet	10,00,00,000,00			00.89

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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (धाणिज्यक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301. (U.P.) Madement Civing Cellells of Project Financial Strength a Contribution of Last France 8

M* NO 5656060163 **	Temps	Dogosa *
74,867	saved Loan From Indian Buck	4,
Source of Lase	fed to Back - II	
Character .	118	
Ameum of Loan	13,00 OE 50 pcm	
Total Drawn property	\$ 90.50 cm	
Date of Drawl	15	
Litterant Pype	Rostey	
Plate of interest as on \$1.04.04	CORN TWO	
MWIED, IT Flooling Interwet	No	
Ask Share any Capal Place	709	
Precisional of the Playment	WORTHLY	
15 Above to year, specify Cares		
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Mississen Period	D Veara	
Meratodum afterdays from	DIG. (N. 2089	
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Mosehmum);	SS Venns	
Repairment Company :	14 Half Yearly Instalment	
Bookymere Type	AV63	
Tayl Fingage and Date:	(89.12.2042	
State Electromage Plate	RUPGE	
Date of Gode Eustwerpy Plate :	MA:	
mana a	and the same of th	
States Code	Project North	Anna
	EHANO-II	5,80,06,000,00
Total Altocat	15.00	
100 P.000-8	and removald	5,36,80,000 pt

SP 50 seamons	Form 6 THANCHE NO TOROST	Policies
Ungere	red Loan From tration flar	9.1
Source of Law	Indian Bank (E	000
Darens :	118	
Amount of Loans	53,00,00 do por	
Total Drawn amount	T1.90.00.00.509	
Date of Date)	Total Control of the	
200card, Page	Floging	
Onto of induces, as on \$1,04.26	108.79%	
Margin, if Pleating Indicate	26	
All there any Capit Plans:	Ivin	
Prequency of net Playment	MONTHLE	
All Allieve in past intentily Cares	1500118A	
Plear		
MacKleiser Period	S Years	
Management affective from:	30.06.2089	
Populyheat Period (Inc.	PET COLORES	
Michelonium I	10 Years	
Reported frequency:	14 Had Yearly Metabrant	
Elitabement Type	AVE	
First Replyment Date:	28 (2.30)2	
State Exchange Rate:	N ACC	
Date of Gase Euchange Rate:	MA	
	-	
		-
Especi Code	Plogest Name.	Ave. of
	MALCALI	20 80.00.000.00
	KINDHYACHKI W	20 to 50 cm 20
	MONTH GACA	26, 20, 20, 007, 00
	KOLDANI	40,00,00,000,00 40,00,00,000,00
	HSHAMO A	20,00 06 806 507
		- SUMMERS 100
Tartel Affective	Amount	5,90,90,00,000.0g

10

परिमल पीयूष/PARIMAL PIYUSH
अपर महाप्रबन्धक (शारितिहरूक)
अपर महाप्रबन्धक (शारितिहरूक)
Addi. General Manager (Commercial)
एन टी पी सी लिमिटेड/NTPC LIMITED
EOC, A-8A, Sector-24, Noida-20(301 (U.P.)

From 8
TRANSCHE NO
BP NO SOCIORDIGIT

TRANSCHE NO
TRASCHE NO

Statement Gring Datails of Project Financed Danagh a Combination of loss From 8

BF NO 5078090811	THANCHE NO TRANSPER NO	Diosono
Ure	eneured Load From PFC-V	
Stores of Loan:	PESA	
Currency	1105	
Arrount of Lose	1,08,06,60,08,680	
Total Grave annual	1,00,00 so 500	
Date of Dopel	The state of the s	
missing Type	Flatting	
Rate of Lebergel as on \$1.04.20	19 5 33%	
Wang to # Flogging Interest	Mil	
Assistant Are Cent / Roar:	1/34	
Enricement of Ind. Payment	(Richtria)	
P Above is yee, spenify Cops!	-	
Bow.		
Monstoduts Persed	6 Francis	
Moteorium effective fram	26 12 2004	
Pepigment Pallod (Inc.		
Maratarano .	18 Noon	
Repayment Frequency.	48 Quartery recomments	
Supeyment Type:	TERMS	
First Perceyment Date	15.07.2010	
Sopie Egyphanian Rote:	FLPsin	
Colo of Here Exchargo Rase:	MA	-
	110000000000000000000000000000000000000	-
Prosect Gods	Project Name	Access
	MAUGA	60.00 do pop oo
Vie. 0.000	RIHAND-III	20,00,00,000 00
Twist Allocate	of Astronomy	1.90 60 00 000 000

2m

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Blattement Giving Details of Project Financial Brough a Constitution of logs Form it TRAMPING NO.

JEF NO SOTOBOBOTT	TRANCHE NO. TODOGO	060612
12	source Lean From PFE-V	1000
Spots of Loan	PYCE	
Exmency:	100	
Amount of Loan:	1,80,80,06,80,000	
Total Drawn serount		
Cata of Drawi	1.90,00,00,000	
Inferent Tupe	Roging	
Plate of Interest as on \$1.04.20	red Library	
Margo, If Ploating Interest	N. Contract of the Contract of	
Ass frame and Capal Program	MN	
Objection of lest Payment	Mandrey	-
f.Above to pas, aposity Cape/ Close:	The same	
Plondy furt Facual	4 7000	
Sportacion effective from:	26.12.3018	
Replyment Ferlad litts		
Maratasiansi:	15 tops	
Digity Hamil Programmy	48 Countries Instalments	
Rostyment Type:	FFO	
and Repaigners Date:	15.07 2013	
Sene Enchange Rate	FLORE	
lote of Blace Endlange Rate:	NA.	
-		
Spied Clark	Propert Name	-
	WYGHNACHA, IV	Amount
	KORSALI	45,28,20,000 5
	SNEWORN	15.03.00.600.0
	RONGMITACH	10,09,00,000,0
	ROLDEN	
	MALCA.	20,00,08,000,0
	MHWHD-HI	26 80 00 080 0
	TAPOWAY VIBHIN JOAO	25.00.00.000.0
Total Altonate	od America	2.09.06.80.000.80
		1 LANGUE BO DOOR B

Statement Giving Delaits of Project Financed through a Combination of loss

DP NO SETROROGES	TRANSHE NO TROUGS	000019
Un	secured Loan From PEC-V	- Secretary
Scarce of Lain	PPCV	
Contractor	INR	
Albert of Lean :	1,08.00 1000 100	
Tatel Organ angust	5.59.08.00.000	
Date of Drawl	- Contract Seconds	
Internal Type:	Pleating	
Spine of Attention on the Ot Se 20	111.00	
Marge, F Floring Interest	M	
Are there any Cape: Piece :	7.84	
Plantering of Ind. Payment	Morrida	
If Aleese is yet, specify Capital	The state of the s	
Platet		
Managerum Period	of Years	
Moratosum attention from:	39.12.200s	
Repayment Period (Inc.	-	
Monatorium :	10 Years	
Spagment Preguency:	SR Quartorly fruits moons	
Résidement Tuga :	7175	
DE Resignant Date:	12.07.2013	
Sase Sychologe Rate	39,912	
Date of Bone Statement Ferm	HA.	-
Clied Cade	Pagest Nema	
	SCHIA-R	Amount
	ROLDEM .	25,60,04,000,0
	MC PP DADRIE	1,80,60,00,000,0
	SIMMASSO, I	3,60,50,000,0
	BOAGAGAGA	26, 30, 83,030 p
	FRISANDHIE	50,00,00,000 p
	SIPWT4	200 m son a 200 m son a 200 m son a
Total Allocati		4000 SERVE
The second second	ALC: NO COLUMN TO SERVICE AND ADDRESS OF THE PARTY OF THE	1.50,00,00,508,60

(Leg

परिमल पीयूष/PARIMAL PIYUSH अधर महाप्रबन्धक (वार्षापिड्यक) Add. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Statement Giving Dotalis of Protent Floranced through a Combination of lose Florance No. TRANSPERSOR

RF NO 5070000011	TRANCHE NO	7437.000
The second secon	100001	Diseason
100	secured Loan From PPC-V	
Searce of Load	MOV	-
Currence	118	
Amount of Logic	11.800,00.00.00.000	
Total Drawn emisure:	3 \$1 00 CD CD 506	
Date of Drawl	The second second	_
Married Type	Rowing	
Bate of Interest as So En C4 20	048.80%	
Wagen, if Floating Interest	W)	
Assittate any Capal Floor	'nn	
Frequency of little Plantecell	Motiv	_
f Above is pen, specify Capa!	Total of the last	
Floor:		
Mosstonium Paried	of Francis	
Mosterium effective from	26.12.2008	
Reported Recadilles	Too on Alberta	
Mastereni	18 Years	
Personnel Emperory	148 Country's Invasioners	
Statyment Type:	FFG	
Fired, Riscogramment Close	15.07.2013	
300 SpiChange Platy:	PLIPRIE	
Calle of Home Entrange Plate	NA	
	100	
Potent Code	Project Name	Amount
2.00.00	PARAPRAIL	75 50 50 000 00
	NOTES DADING	32,00 B0,000 B0
	BOMBARGADIY	20,09,00,000,00
	BARH I	80,08,00,00e.so
	MALEA	1,80,00,02,606,50
	VINDHYANGHALIV.	50,00,08,084,08
	STRANGE!	10,000,000,000
	SECULIA SECU	28 80 80 000 00
Tirtal Allocat	se Amount	2,04,08,80,090,09
	The state of the s	

Statement Giring Setalts of Project Financed Message a Combination of sale From 8

BP NO 5676060011	THUMACHE NO federal	200032
Un	received Load From PVC.	V.
	-	100
Source of Laws	PPC-W	
Satterey	PAR	
Amount of Last	1.06.50.60,00 pcp	
Talial Dissen, amount	6,08,00,00,000	
Date of Drawt	0	
Interest Town	Eintst with Frend affect of	once 2 years
field of interest as on 01 pt 21	1197.62%	
Matain, If Fleeting Interest:	NR .	
59 Fare any Cage Flace	10N	
Precision of 1st Payment	Manday	
If Above is yes, specify Digor/ Place	O CONTRACTOR	1.0
SSURGENT PEROF:	of Years	
Minuterum effective hom	DR 12 2065	
Plepleyment Parioditive:	1.030000	
Maskinset:	30 Years	
Rependent Frequency	40 Quarterly Indexessors	
Englischent Type	RED	
THE PROPERTY DATE:	15 ET 3913	
Date Exitings Note:	SUPER	
Date of Sene Exchange Forte	31.A.	
	100	
mact Code	Project North	barwar.
HILLSON, I	SASHALISAGN I	20.08.06.504.0
	1003W	10,000,000,000,00
	FARMSSAUR	28 80 09 000 0
	DESPEDADALE	15, 90,83,060,0
	SIMMASHS I	18,30 JK1,685 B
	BOAGUNGAGN	20,00 B0,000 P
	D4811	\$5,00,00,005.5
	MALDA	40,08,00,00,00,0
	KANDENACHAL W.	20:00.06-006 or
	\$1460-E1	38,00,00 G08 OF
	TALCHERIA	36, 80,00,080 pg
	FOWER P	19, 90, 90, 080 08 59, 90, 80,000, 90
	DESCRIPTION OF THE PROPERTY OF	\$8,00 B0,000 B0
	UPSTRANAE.II	29,09 50 000 50
-	PASSE SATINACIH	40.08.00 806.00
Total Atlanta	ed Ampant	4.60,00,00,000,00

Sign

Potitionen

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (टाणिडिसक) Add. General Manager (Communicial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Statement Giving Details of Project Founded through a Combination of loan

EP NO 50/0696911	TRANSHE NO TODAS	******
	Secured Loan From PEC-V	Desces
	STREET, STREET	7
Scorpe of Loah	PPGV	
Dunmer:	100	
Amount of Live:	1.80.00 00 BO 000	
Fold Drawn presion:	3,50,60,06,000	
Owter of Orașul	1	1
Editorial Tops	- Forting	-
Plate of interest as on 01 04 21	157.42%	
Margo, J Physics interest	(9)	
Are Priere any Capal Piner:	700	
Preduting of left Permant	Mandity	
11. Albest in peri, specify Capital		-
Ploar	0.000	
Mothern Forod:	A Veges	
Mentorial official town	28.12.2008	
Repayment Period (Inc.	10000	
Merelonum i	10 Years	
Supposest Prescents	68 Grandedy Installments	
Amazonichi Tuga:	MFO	-
Tot Registrent Date:	16,87,3819	
Bala Exphange Form:	NORE .	
Date of Date Scibings Fals.	RA.	
Visited Code	Physiol Nume	
1-12,000	EASH-1	Act gust
	MAUDE.)	29,00,00,000,0
	SM:470.4	25 30.64.004.00
	PANCHYACHA IV	18,40,69,060,0
	PRIVATE R	26 56 80 680 80
	EARH)	50,08,00,000 to 1,00,00,00,000 po
	BUILDAM	1,00,00 (E) (E) (E)
	PLODAS II	40,00,00-204-00 26,00.04,000-00
	SFARMOCK III	15. 80.00.000 os
	DVC TSPI DADRE (I	18,00,80,090.00
	TAPOSANY WISHING GARSH	15.00 80.000 80
5-1-20	BONGAGAON	40.08.00.000.00
Telal Allocate	of Amount	1,60,66,00,606,60

Statement Giving Details of Project Financial Strough a Continuation of load

8F NO 5070808811	TRANGHE NO TROSOT	DR00033
19	STIMES LOSS From PFC	4.
Searce of Loan:	Nov	11.5
Captengy	ACM.	
Amount of Loan	1.80,00,00 at 40,000	
Total Driann emount	8,80,00,00,900	
Cate of Cravi	The second second	
Interest Type	Floor with Heavit adain.	neer 1 from
State of Interest up on 21 pid 20	1 d7 87%	MINN, A. P. SER.
Margin, If Floating Wieres:	190	
All Person and Great Floor	Yes	
Precision of tell, Page and	Macetry	
1 Above in per, executs Capa-	-	
Float	1.00	
PfortSciats Perced	d Years	
Marwiariam offective born	28 12 2000	
Repayment Period time:	10000000	
Maiptonies	16 Years	
Fecanitest, Frequency	40 Guarterly installment	
Repairment, Type:	HFO	
Cites Reportment Data	15.57.2019	
Date Schlenge Rein:	SUPER	
Date of Steen Cycholica Rate	BA.	
		1
Present Code	Project/surve	Ameuer
	SPAT4	90.00.00 to 60
	SARIN	85, 80,00,000 cm
	BARHUI	01, 50,00 cmo on
	WOLDAY.	47,40,80,065 56
	BOMMONON	25.00 at pap an
	MHAND-III.	28,08,00 806 80
	EXECUTION 1	1.31.06.06.806-20
	SORAL II	7,00,00 000 00
	504/-1	A. 860,000,0000,000
	KANK GASH-I	6,50,00,000,00
*****	UNCHANAS FRM	8,00,00,000,00
Tetal Allpost	SI Almenti	5,00,00,00,000,00

M

(Ferdinance)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यिक) Addl. General Manager (Commercial) एन टी पी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.) Statement Giving Details of Project Financed through a Combination of Joan

BP NO SETROBORY	TRANCHE NO. TROSOT	*
	secured Loan Frem PFT-V	D09004
-	7.02.0	
Source of Lake	PRG M	
Cytate:	108	
Amount of Louis	1 80,08 SD 80,080	
Salat Drawn amount:	74.60.00.00 ROB	
Date of Dased	Tr.	
Athene Tene	Sorting	•
Hale of Interest as an En 04 30	10.17%	
Margin, T. Pilophery Inference:	Mr.	
Ask there are Caper From	WU	
Proguency of Init. Prevenent	Modes -	
# Above to year specify Cape."		
France	POST CONTRACT CONTRAC	
Mostlower Period	K France	
Monstorium effective from	26.12.2508	
Repayment Period Sec	-	
(Sicrathorigms):	TE Taken	
Depayment Franciscopy	diff Divertierly Imptalments	
Statyment Type:	PPO	
First Popularities I Close	15.07.3010	
Stat Discheroe Pale:	RLPRY.	
ate of East Eastways Nate:	NA	
Total Cade	Shipped Name	7.000
3 3.119	DOD DAM	Amount
	FARMONALS	39,00 80,000 D
	THPOWN VISHBURNO	28.00 80 000 E
	MOUDA!	45,03,00,000 at
	WHANTAIL	1,08,00,00 806 \$2
Twist Atlanta		\$5.00.06.008.gc
1996 H19030	ELASTIC STATE	3,40,80,08,506,56

Statement Giving Dotains at Propert Financial through a Combination of teat.

RP NO 5070606911	TREAMCHE NO YORKS	pacere
- 29	Serviced Loan Frank PFC V	
Swarp of Loan	West Tr	
Carrier .	PEC-W	
Amount of Loan:	1,80,80,00,00,000	
Total Diaws serenist	13 -00 -00 -00 -00 00 00 00 00 00 00 00 00	
Outs of Greek	- A MC 101 COL COL	_
Interest Type	Flogens	
Babe of Interpet on on 81 04 25	1101.57%	
Margin, if Ploating Interest	760	
Ate there are Capal Floor	IVIN.	
Proguency of left Planners	Medity	_
If Above it yes, specify Cupe!		
Monstonus Periad	4 Years	
Molesulary effective hard	26 (2.2008)	
Reportment Policial Elec-	1	
Montenero:	18 From	
Paggyment Fraguency	(45 Quarterly transferments	
Stoagstell Type	RFD.	
First Repayment Date:	16.07.5813	
Total Euchange Rido	RUPEE	
Selfs of Besse Eisthungs Bate	N.A.	-
Except Code	Project Opena	- Venne
-	BARH I	275 00 00 000 0
	W0004-1	25,08,00,808 B
	RESORVACHEL IV	45,00,00,000,0
	STATI	1,15,60,08,808,0
	THANK B	JR. 80.85.000.0
Total Allocal	eel Amount	5.06,00,00,000,0

So

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिवियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.) Minimum: Giving Details of Propert Presenced through a Combination of Joen Form 8

GP NO SETROBORY	TRANCHE NO	000000
Lles	sequented Loan From PSC-s	- Dynasia
Source of Law	BEST 12	
Carteroy	PEG-V	
Amount of Laws		
Tatal Dayen amount:	1,00,00,00,00,000	
Date of Cravi	E58.00.80.000	
Ardenini Tripe	30	
	Flatfog	
Photo of indensed as on dit six on	188,22%	
Margo, if Pleasing Interest:	791	
Art there any Capal Floor:	709	
Reguesca of Mr. Payment	Macably	
If Allows to yee, openly Cope! Roar	A	
Massionum Farind	d Yours	
Monatorium effective from	SE 02 2008	
Repayment Period Disc		
Margiorismi	16 Then	
Regayment Frequency:	148 Courter's Instalments	
Reasyment Type:	FEB	
First Resignment Code	18.07.2043	
Ease Exchange Nate:	RUPSE	
Date of East Exchange Park	NA.	
	The state of the s	
Point Cade	Project Name	Amount
And the second second	RIHWIGH	1.60-00.00.000.0
	PARTS BARWACH	36,90 80,000 0
	395A74	38,00,90,000,0
	SIMHACKLI	1.18 OD SO DEC /
	FARMOUNTS	45.05.00 son o
	BARH II	20,08,00 008 0
	SONSAIGADN	65 page and a
Tutal Offerial		4.80.80.00-908.9
The second secon	The state of the s	

Statement Chang Details of Project Financies through a Continuation of Loan Fairs 8

5P NO 56500632H	TRANCHE NO.	00006
Unascurad	Loan From Union Bank of	Intia-t
Bource of Loss:	Union Stank of India - II	-
Sacrety	166	
Antouri of Leas.	28,80 08,06 506	
Tatal Online: amount	1.06,06,80,080	
State of Drawn:	503,23,2014	
Interest Type:	Pleating	
Rate of Interest on on \$1.54.25	1144.50%	
Margin, If Floating little ed	10.	
Ate form any Capy Place	539	
Frequency of left, Playment	MORITHEY	
If Allove is pas, speedy Caper		
There		
Mostorium Persel	4 Years	
Measurem effective from:	801.09.2012	
Repayment Pariod line		
Ministeriero	14 Years	
Repayment Proceeday	20 Half Touries	
Regayment Type:	ANG	
First Repayment Date:	81.02.3617	
Easte Cocharge Hate	#Cheb	
Salta of Base Endrange Rate	MA.	
Project Carry	Project Natio	Amount
Maria de la companya	Bodisi	20,00,00,000
	RE-KAID-III	25,00,00,000
	VINGHWACHM, /V	28.00.00.000
	MOUSE	28,90,00,000
Total Affaca	ted Amount	1,80,00,00,600,50

E M

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (वागिरियक) Addi, General Manager (Commercial) एन दी भी भी लिमिटेड / NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Olatersial Giving Datalla of Project Equations brough a Condensities of loss. From \$

JP NO 5050000121	TRANCHEND	
ser into sessential plants	T00091	passori
		-
Blame of Case :	Corporation Basis (V	
Currence	1480	
Attended of Loans	28,00,00,00,000	
Total Disposit parametri	28,04,35,06,060	
Date of Depend	11.012000	
Interest Type		
Plate of Enterpol St. on \$1,04 20	Fliates	
Mote Natur & Hosting Interest	200.00	
Loss Hall tenone spread	0.1330%	
Mwate, if Pleating colores	50.13297b	
Ass Frank May Green Place	Day of the second	
Hittigethay of int. Payment	5001	
11 Alberta in year, specify Codes	MONTHLY.	
Floor		
Marylonium Pessod	II was	
Visitable effective host	11.01.2019	
Repayment Period (Inc.	11101200	
Monatorium)	100	
Asserted Fragelia	12 Years	
Responded Court	2 Year's reference	
	WAS	
DE RANGEMENT COME	15-365-23 Buinsa	
Tarse Cocketon Ratio	Burks	-
Wite of Rasia Engineering Ratio	NA .	
Yosect Code	Destroy Village	
	Philosophiana	Absert
	SPAGRALIAMIN +> DEG	8.75.80.0go (11.81.50)
	EARTHAND SOLAR PV	A 79,80,050(11,01,201
	B NO SAULI SIDILAM	8.75.00 gopf 11.htt 359
	FARANCA II	11.42.86.716 (1) Dr. 2011
	MA, GARLISOLAN	78,12,50 (00) 21 pt 201
	NCTPR a	14 20 27 139 (11 61 201
	DANCHAT REM	(4.26.37,199 FLET 201 18.802 5-600 11.01.201
	SMRWARU	25,21,42,486(11,01,201)
	S.PATJ	25,21,42,688 11.01.507 23,43,75,000 11.01.507
	M2,04-1	90.03.06.808 11.01.017612
	MACHINACHUL-II	1,00,00,00,000 11 (1,2016
	SEPATA:	1,01,07,14,267 (11.01.2018
	MOLICAI	105.44.64.284.11101.2019
	RHANDUN	1,22,88,71,426(1):01,2019
	WHENTACHMA IV	T.45.09. (0.000) 11 01 2010
	MACAGEM	2.51 to 74 per 11 01 2010
	SAREA	2,71,50,78,977 11,54,2618 8,76,75,68,368 11,91,2618
	0.000	L00,80,00,000 11,01,2018
Total Allocates		

Statement Cliving Dotals of Project Financial through a Combination of Ioan

	Form 6 TRANCHE NO	a commence of the	
RP NO ROSCODOWN	100004	D90904	
Districts	of Lean France HERT Burns Li	II. (X.	
	and the second s		-
Source of Logic	HIGHC Bank Ltd. (X		-
Curtercy	397		-60
Although of Loan:	50,80,06 to pos		-6.0
Tester Dissess actions of	18,10,05,06 80		-
Class of charact	24,50,3030		-
Interest Type	Floating		-
Fixed Interest /fixes:			-
Base Mate, if Floating leteres.	1,30%		1
Masgin, If Flashing Interest	ML.		7
And Share any Cape Frage	934		4
Preparation of Ind. Propress:	SECRETHLY	1	-
If Above is yes, specify Capal Flace:	100.00		1
Moratoriust Period	3 Years		4
Monetonium articidina frame	24.50.2020		4
Perpayment Period (fee:	1		4
Montherwerk)	15 Years		
hipportect Frequency	12 Yearly Instituted		4
Suprement Type:	AVG		4
THE PRODUCT HIS CARE	30.06.9694		4
VIDE EXCHANGE Plate:	ALPYY.		4
365 of Basic Exphange Role :	QX.		ŧ.
THE PARTY OF THE P	A STATE OF THE PARTY OF THE PAR		1
Institut Cooks	Project Name	Acute.	1
	54891-8	2,54,31,57,061	20.00.200
	#ONGAGAON	2,08,81,09,060	254 OF 200
	CHATTI BARATU CMP	13.80,93,080	25 ST 2005
	JETSAN SCILAR	12 30 20 20 20	24.08.585
	KANALGACNIII	29,06,30,600	25.10.232
	KHMMOONI	11,43,64,123	24.95.2020
	KIN DAM	1.20,00,06,508	24.08.2020
	HORBA III	4,44,04,069	G4.08 2000
	0.09	Z,16,43,28T	24.68.2000
	DARA.	45,50,80,000	24.65.2528
	MOUGH	7,66,71,406	24.16.2020
		89,44,38,767	24.UE 2020
	WOUGA-8	1,60,60,00,000	24.08 2020
	MORTH KANNANT GA	56,80068,080	34.08.2020
	PASSIBAHWADIH CWD	1,07,21,65,097	24.09.2020
	NAMESAN	A0,08,90,600	M 56 3036
	BH-MAD-M	30,63,00,606	M 36 5004
	SERMOREIL	\$2,79,00,000 C	NAME AND ADDRESS
	53%(1)	19.57,38,797	F 00 2000
	ROUNDUS	83,79,74,280	2 24 7070
	TANELS	1 10 00 00 000	100.00
	DICHAHAM TODAY	1,33,00 80,000	WEST-SELECT
	VINDERACHW JV	18,08,00,000	M-26-2022
	VNOHRACHALW	85,60,05,000 T	NOR 3000
	ALL PROPERTY.	1,44,25,57,140 3	FD# 5050
Total Altocated	Associat	16.10.00.00.00	

Sur,

(Fertilano)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (दाणिदिवाह) Addl. General Manager (Controllad) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Form 8- Donarstie Bunds-Detects of Allocation at Colposate leaves to various projects during the PY 3814-19

Sosroy of Least	. 38				SLOW ST.	6.16	4.24	1.33	F 486	1 1 100	7 7 7 7 7 7 7 7 7	*****						
SOSCOP DI LAGRET		46	44	47	- 61	59-14	96.38	80-30	E0.18	50-20	1.20	12.6	59	45	. 59	80	67	71
	RONCE	(90405)	BONCK	BOADS	BONDS:	BONCO	ROMEN	003405	901015	50ND5	59-38	\$1.16		ST	. 59	- 10	67	73
Curency?	MP	I MAY	158	DW	MR	PUT	Ind	KAME.	116	DUNCO .	BICADIS	BONOS	HONOR.	SICADO	80N06	RICHOS	RONDE	30H04
	1908	58000	19909	29600	29095	esaca	24995	33303	20064	9129	106	3146	198	HAR	INR	MAK	207	160
Official Types	Frank	Find	Past	Foxed	Place	Fixed	Fisher	F 664	Firet		39997	7100	1539463	100000	65500	292508	400000	1400000
reed viterout Karle, if opposite	8.1.5%	0.00%	9.20%	8.84%	10,876	8.49%	8.00%	W 80%	0.899.	Date.	Fried	Feed	Fred.	Frond	Post	Final.	Forest .	Freed
Seco Rate, A Planting Princess	NAME:	NO.	25/4	160	ING.	505	No.	190		0.72%	8,87%	8,125	(8.49%)	E 1994	6.33%	7.37%	8.30%	5.45%
Margin, if Photogramment, &	14.00	1900	24/6	184	74/2	N/A		1905	34%	NM.	160	H/A	(3424	NA	NA.	163	1000	243
Ap Dete wy Capalifoon)   It	790	Mag	The Control	Ser	No	No.	NAA.	No	No	1986	144	MA	76/4	NW	PACK.	MA	NA.	No.
f store is yet weeth capable	108	2				1	-	190	360	190	Ne	Mo	No	588	No	Mw	No	No
Warefolium Percette								_		-	-		165	nee.	NN.	MA	INM.	No.
	Live	to you.	lilyn.	High.	30 pm									-			Ott 10 5	
Monadominia effective from # 2	22 68.11			T04.16.12		10 9%	18 yrs.	20.75	10 pts.	15 yru.	125 year.	tti yea.	W.	14	4.1	in	46	1.
reprorpert Penediti	14 yes	100	tions.	Fluided	04.50.2013 Bullet			16 12 2912	10.12.2013	98.12.2050	10.12.2015	04 33 3014	25/09/2015	45,00,0016	24-02-2016	1000000	79	1
2 TO THE RESERVE TO T			about 1	Repoyment		Bullet	(Stuter	Bulet	Synet	Ballet	Globat	Dute:	Pricial resists	Dulye	Rates	16-12-2016 Dutlet		
Mystyment officials harboom				Line Common		Repaytrees	Plempirard.	Явраульна	Периотия	Requiyment	Personne	<b>Перауния</b>					Repayment	Sold Separate
AND DESCRIPTION OF THE PERSON	72.93.20 (T		64.00.23	84.10.22	D4 G4 2025	16.12.2013	16.12.2026	10.12.2008	18 12 2000	16.10.3038	100 00 00000	-						
hopsystemid Presponder (2)	Yearly.	Yearly	Stearty	Dohet	Butter	Suite!	Bullet	Dulot	Stated .	Bullet .	16.12.2003	91,03,2004	25-23-2424		24-92-2921	160 12-2034	+5-61-00ps	78-10-28
Spring Datement 1.14	200			Sapaynum	1	Playagement	<b>Первупан</b>	Missymani	Poppymara	Repairment	Rulled Replaybase:	Sulet Repayment		Rober Repayment	Didet Repayment	Bahel Pepayment	Saler Hepspress	Shalled Thispolymen
		10000	CROSS	28(8)	20001	100000000	7458-409000	9120278080	2000391000	913029080	1909/HTDOD	TRUE	Management	18060				
											100/100		Fet 206.136.61 265- 612.378.22		8080E	382500	40000E	400000
less Exchange Relett		-											34d- 410.288.22					
Santa Santa Santa		Carrier.			1000		1		-		-			Maria .	NW.	1606	100	Des.
Door to Door Makening	28 ym -	there.	Dipe	10 yrs	10 yra.:	10 510	ttys	TO yes.	10 es	15 25	22 ye	10 yrs.	w.	+4	200	15	10	100

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिजियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Seene of the Projects									_			12-5-2						
MAI BOLAN SOMETIME SOLAT	-		-	T.	-				-								-	_
NIA	_	-	-	411					-			-				-	110	
Kia Solar SSMW		-	-	-			-					_	5,680					
URIAYA		-		-									-	-	4.0	-		1
ERSANSV					-			-						-	_			1
erms Solg Zitter		-							_			-		5.4800	-	-	-	1
And stick States Fth Schools Lander pays 74 BAM									-					100				1
Mary I	-	-			-					-								4
Mill.	700	0,490	V 107	1000	10.71	-						-	2,300	+	-	-		1
Artes	100	2300	5,000	11.80E 2.50e	3,090	3,119	34,679	5.836	3,890	1.788	7.404		-		22322	- / 1	100000	la record
Prada Sulai	1	- 7,000	-	6.00	-	1,729	555	1,308	3,890 736	1,788 334	1,617	-	76,963 85,990	6300	2.485 2.790	46,300	45,957	1809 5000
CARACTO .	4.7	1,700		2.506	2,600	1,010	926	2000					10000		2.190	2,006	1,000	6350
S. John Pever	-			11/0		100.00	- 007	1,108	773	335	1,460	4.	M4,000	500	3,000	12,706	10.000	
E.NEEKO													-		7,000	18,0W	36,600 1,22,680	77.0
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NASK Barrery CARE			-	-	-							_	-					
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ALSO SLASS MAIN			-			_							4.50	- in-		380	1-1	18 18
ACMI SCILAR	1			-				-				4	600		-	100	100	F 39
SUPALL!	4				-											-		F 85
decuje CNP UNUSCATI	-	-	- 141									-	49,260	-		36,400	-	(i) (ii)
BNOSA III	100	11	-	- 4	2.741			-				- 1		1 1		29,400	- 1	E 5
wide PAM	100	7.800	-		14-								2.061	-	-	-		11706
MEMBAD POLI		-	-	-								-	10,860	-		-	-	100
			-										2,806	-	- 1		54.5	1 1150
CHOME RAM						_						-	-					
REMARKS BOLAR	+	-	-			$\overline{}$	-							-	-	-	- /	9 83
DARWEN. NO-RE		-			14.1	_		_					26.90%	7	-	-	-	Q 91
Olive 2006V	-		4.7		-			-	_			212	81,000	2,000	5,300	28,150	25.83	K 23
rather HAM	-	-		_				_		_			-	3.04	1	A01101	10.50	
HALDADAH.	_	-	-							_	-	_					-	16 60
Mission & Photos		77	_	-					-			-	4,260	600	-	-	-	8
18 9990 S. FRINKS 9	-	-	-	-	-							-				1.7		3.3
HALGAGAI RAMI	-	-	-	7950									1.600	-	-	608	1	
Wigdow L. R. P. P. Co.					-	_						-	2,900	500	- day		-	2000
808	-		4-11										100	1800	-	-	-	
MARNIN	-		4	7.2			-	-	_					- 1	-			- 0
Nik Solar		-					_	_	-	_		-	1.409.3		224	-	-	- 4
remidde FB (22 MW) (BB) Aber FB (75 MW)	_							_		-	_						-	E 15
W gone	-			-	_						_	-						0.00
India Califoline			-	-	-							-	45'45'	-	7073.000	-		
LDAM	1,500	2,500	-	8.506	1200	6,004						_	45,080	LER	2,760	24,790	-	34
REA E	1,500			-	1000	2004	3,980	3,861	1.875	1,128	4.307	6300	36 100	1700		-	-	S (S)(S)(8
DA HAM		1,41			-		-	-	-			-	26,190 0,200	900		- 83.1	1.59	18800
their Callings						7.15.74	-	-					4,400	-	-	909	2,135	8960
SIGNAGE		-	26,600		-	2 804	23000	2.496	1,089	731								7960
14	-		_		_		1 1000	1000	-	- 601	3,290	-	1,25,304	-	7,800	34,300	10,600	
Lippowa	- 1	7.5			-	2,749.	1,426	1.783	1,182	572	2.216		47.000	1000		1,17,17	1000	5 50
MARKAGPALA				-	-	100					4,414	-	55,500	10,730	1301	34,560	22,810	
PARK SALM	70.							_					- Line	111	-		100	
Ok.		2,490	5,000	2,600	2300	2,644	1,417	1700	1400			10.0	72	mile	-	-	74.000	a 3
ob it lokari	-			1	-	3,785	1,457	1,819	1,216	533	3,231	- 1	21,960	4	1,000	3 100	188	1000
	_					340.50	700	2.4%	TATE	TRS	3,085	7	21,360 45,660	4	3,560	77,600	- CDC	30500
N. P. C. C.								_	_				7.577		-			0.000
8.FG0	-				-				_	_	_	-					$\overline{}$	
95.FG() PP.	150	1000	-								_	-	10000		-			
SPGD PP TP II TO ANN	3,560	-	-	-														
S-PGC PP TP (I TP (See) B. Spiec Pro- (CASMEN)	3,500	- 1	- :		- :	-							4.400	500		1	1,681	27790.28392
S-F GD PP. TP- () TP- () DP- () Bank B. Barker (Prox-1) (3-6) ethnology b. Soliat (Prox-1) (3-6) ethnology		-											71.600 3.700	360	- 1	-	1,681	P1780.58502 0
S.F.GO PP. PP. II PP. Dani L. Solar Pro-1 (248860) 9 Solar Pro-1 (248860)		- 1										-	150	360	- 1	-	1,681	27790.58502 0 0
SPGO PP I PP I PP Real Solar Ploat (245880) Solar Ploat (24580) Solar Ploat (24580) THI HARLAND (25580)	-	-										-	150	300	-	-	1,081	0 0 0
SPECI PP II PP State 1 State Pro-1 (2-5989) 1 State Pro-1 (2-5989)															,	99.560		27790.58500 0 0 0 0
S-P (C) PP (F) PP (B) ISPNE PRO-11-MORROY ISPNE PRO-12-MORROY ISPNE PRO-12-MORROY THI (ASTANDARY) ISPNE PRO-12-MORROY ISPNE PRO-1	-											-			5.000	H-300	14,800	0 0
S-F (C) PPP												-	12,400 25,000	800	,	#1,300 0,600		0 0 0 0 0 0 0 0 0 0
9-F (C) PP 1 PP 1 PP 1 PP 2 PP 1 PP 2 PP 2 PP 3 PP 3 PP 4 PP 4 PP 4 PP 4 PP 4 PP 4												-4			,	34,380 6,600	14,800	0 0
SP (S) PP (PP ) PP (SM) E Silve Pro-1 (Month) E Silve Pro-1 (Month) E Silve Pro-1 (Month) E Silve Pro-1 (Month) ITH (MANAS) E Month (MS) E Month (MS												-4	12,400 26,660		,	#4.490 6.690	14,800	0 0 0
5-F (G) PP (F) P			1	-								-4	12,400 26,660		,	31,390 6,600	14,800	6
POP (III) POP (IIII) POP (IIII) B. Spine (Pro-1) (Assessor) B. Spine (IIII) B. Spine (IIIII) B. Spine (IIIII) B. Spine (IIIIIIII) B. Spine (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII												-4	12,400 26,660		,	31,390 6,600	14,800	6
S-F (G) TO 1 TO 1 SAME  Links Pro-1 (Misses)  Links Pro-1 (Misses)  Links Pro-1 (Misses)  Links Peut (Johns)  Links Peut (John												-4	12,400 26,660		,	37,390 6,600	14,800	0 0 0
5-FIGURE PP												-4	12,400 20,000 2,400		3.00	0.000	14.806 21.521	0 0 0
SE FOR THE PROPERTY OF THE PRO			-									-4	12,400 26,660		,	22,480 6,690 2,080	14,800	17790.58390 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Age of the state o

Shard Raw	690	ACX.	1,500	3,690	100	1541	No.	1.065	7544		-							
		1	- CV7	11111111	-	1,040		1,052	inte	208.1	1,346	480	28,300	880	1,700	1,707		_
Basic Sear (204W)			-		-	_							2,500	-	1200		-	31.4
M-9099	4		-			_							-	-	-			- 20
Inhade Romey			-	-	-	_							-	-		_		
Embada 1		3,880	3,000	7.000		_						_	-		-	-		
Prehade REM		2000	2,000	2.900	-							_	-					
OTHER J. S. 1/2-010 HW/15.	Change water	000										-	25,800	1,000		7,000	13,804	967
Prevent RAM	MALESCO SERVE	200									$\overline{}$		300		4.0	1	-	
rgasi+ & 1. Ptto	_	-	-	- 4														
BWT!	360	-						_			_	and the same of the same of	1,680			-		
PATE	300	13,500	0.390		+ .		_		_									
				- +				_					50,520	1,400	-	1,706		
Belt Clades NW(FOD						115.750			_	_		-		-	-	0.00	-	040
DLAPLE .			-	-		220	1.145		-								-	0.0
Stepa Sates	_		-		-	4,611	1-152	5,628	954		1.826	-	70,300		5,500	3.80		
Hep.r-FGG					_	-		-	- 0				0000000	_	5,0,0	45,300	25,250	
Stiggil Cast Mine	-				-	-												
N_EHERT I				-	-	_						- 74					1000000	
ACCHER II				-							-			_			4,900	
ALCHER BOLAR		-	Total	-							_	- I-m	-	-	-	-	41.7	
entia II		-		-	-						_		12,000	706		500	-	
indo RAM			-								_		1.4	400		240.9		1 100
spesies Vanninger	500	-	-		- 1	577715				_			9.000	406		21,600	12,800	
Horgans.		1,600	790	2,908		1,034	260	1,238	679	1000	2.000				- P. C.	-	16.000	7.0
SP SW	-		4 .	- +	A	-	-	1,625	573.	390	1,677	869	35,430	1.7	600	8.400	15.000	18
	200							_	_				1.78	1	-	1,900	77777	186
ITPS Stage 8 & I PGD							_		_				4 600	1,000			-	
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SCHWAR I		-				_	-		_			1-6	1.000	-	_			
tchidat ili		4.				_	-			-		-	-		-	_	-	
Chahai N.	5.5			-		4 100	27500	-	411111						1	-		
SOSSMAN, N.S.M.		-		1	-	4.563	2.140	2,675	1,788	765	2.438	7.1	17.400	2.4400	- Circu	100	and the second	
ACHARIAR SICKAR	1	-			-	_	- Anna				1000			4,890	5,400	34,780	2,500	
SCHOOL 116 (R.FCD												400	2.400	-	-			- 5
Whenever-In-Fide	_	_		***							_	-	and the same of	+		-		
director House"	_	-	_		_										-			
MEHNACHAL F		_		_			-				_	_	-				- 77	
NEW WORLD	-	-			1				-	_		_	1,080		-	- doc	500	
Silywhol IV	-	7.0	-	4.1	-								+		-			
Advanta: Risa	-	400	-	2,500	4,306	3,683	457	1,075	710	-		-	110000000000000000000000000000000000000	8.0	141	10000		
		100	2 - 6	1000	11000	100	-	1000	718	113.1	1,371		17,256	399	900	8 100	4 544	200
Editable V	-	-	4			1,100	2,642	2.000	-	100	0.000		1,201	960	-	- 24	4,884	3836
Street ATTES						-	4006	1,299	3,204	106	A.226		33,600	2,200	0.506	160	2200	
SQUEEN SOM	100		- 1	-		_							-	1400.4	1201	4,900	5,380	
						_						-	4.800	-		-		
				_	_	_	_						5004		_	-		
			_	_		_						-						
TAL	7,506 1	90,090	55,000	39.604	20,000	100000	-	- Indicate a	200000	2000	2000		_	_				
enk	1.80	0.08	THE RESERVE LA			48,865	24,366	51,363	20,854	9,139	38,997	7,300	10,30,682	PR 855	40.00	-		
		0.04	9.00	0.80	0.08	9.00	-8,00	0.90	0.00	0.06	9.00		-	84,600	65,500	1.97,506	4,09,000	43000
									4.44	100	200	2.00	0.08	0.80	0.04	0.80	1.00	
																7774		
																		Petitions

परिमल पीयुष/PARIMAL PIYUSH अपर गडापवन्धक (वारिगठियक) Addi. General Manager (Commercial) एन हो पी सी लिमिटेड/NTPC LIMITED EOC. A-BA, Sector-24, Noida-201301 (U.P.)

Name of the Company Name of the Power Station	NTPC Limited Various										
Particulars	1										
	5.625% Fixed Rate	4.75% Fixed Rate									
Source of Loan	Notes due 2021*	Notes due 2022#	SBI, NEW YORK**								
Drawal	110000 000 2001	140005 due 2022#									
Durrency	USD	USD		- 11	111	tV					
Amount of loan sanctioned	50,00,00,000	50,00,00,000			JSD	5 5 1 10 0					
Amount of Gross Loan drawn upto 28.03,2014 /	31,10,00,000	30,00,00,000		250,	000,000						
COD	50,00,00,000	75.00.00.000	U46429200		The Control of the Co	2.25000.0000					
Interest Type	Fixed	50,00,00,000 Fixed	5,00,00,000	5,00,00,000		10,00,00,00					
Fixed Interest Rate, if applicable	5,625% *	4.75% #		Flo	pating						
Base Rate, if floating interest	9.000.079	4.70% #			*						
Margin, if floating interest rate		-			th LIBOR						
Are there any Caps / Floor	NO.	NO			.85						
If above is Yes, specify Caps / Floor	100	NO			NO.						
Moratorium Period	10 Years	10 Years			W						
Moratonium effective from	14-Jul-2011				rears .						
Repayment period	Bullet payment	03-Oct-2012 Builet payment			ar-2013						
Repayment effective from	13-Jul-2021	The second secon	1 Year								
Repayment frequency		03-Oct-2022	29-Jul-2019								
Repayment installment	One time	One time		Semi	Annual						
Base Exchange Rate (26.03.2014)	50,00,00,000	50,00,00,000		2 Half Year	ly Instalments						
Are foreign currency loan hedgod	60.81	80.81		60	0.81						
f above is Yes, specify details	NO.	NO		1	NO						
accident and appears occurs	140										
Name of the Projects	1 % 1		%	-							
			70	%	%	%					
Bert-II	19.3870%	2.7817%									
Bongaigeon	15.5700%	4.8526%				12.52330%					
Mauda	20,6600%	8.4848%									
Rihand-III	17.5890%	9.5929%				6.61617%					
VSTPP-IV	19.7400%	10.6301%				8.38906%					
Simhadri-II	2.3370%	3,9948%				13.58716%					
Koldam.	2.0570%	6.4273%				Transfer of					
Tapovan	1.6940%	3.1659%									
Sipat-1	1,0080%	1.0900%									
Barh-I	1,0000.1	11.2689%				- 35 (CO) (CO)					
Kudgi-i		5.0420%			9.40359%	23,80581%					
Lara-I		The second secon		27.69642%	IC SOME MADE	8.3324254					
Mouda-II		15.2868%		0.15026%	AT 45745000 - 24						
Solapur		3.6033%		28.94482%	23.26666%	7.53019%					
Kawas R&M	-	5.4994%		14.89637%	10.07040%	5.57238%					
Gandhar R&M		4.4580%			24,15102%						
Auralya R&M	-	0.2499%			33.10833%						
Korba R&M	*	2.4361%			330,73300,75						
VSTPP-V		1.1375%									
and the state of t				19.72072%		13.64250%					
Gadarwara			100.00000%			13.04250%					
			100.00000%	8.59141%		= 0000000					

(Petitioner)

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a) The interest rate is exclusive of withholding tax currently @ 21.84% w.e.f 01.04.2019 (inclusive of surcharge & education cess) to be grossed up \*
b) The interest rate is exclusive of withholding tax currently @ 5.46% w.e.f 01.04.2019 (inclusive of surcharge & education cess) to be grossed up #
c) The interest rate is exclusive of withholding tax currently @ 5.46% w.e.f 01.04.2019 (inclusive of surcharge & education cess) to be grossed up #
d) Base exchange rate are the SBI Bill selling rate as on 25.03.2014

Distribution of loan package to various projects is based on utilisation of loan as on 26.03 2014

s.no	Bank Loan	Interest Rate	from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest
1	HDFC Bank Limited-II	8.450%	01-Apr-19		91.00	7.69	8.05949
		8.400%	01-Jul-19		28.00	2.35	
		8.300%	29-Jul-19	the state of the s	31.00	2.57	
		8.200%	29-Aug-19		31.00	2.54	
	r AJ	8.100%	29-Sep-19		30.00	2.43	
		8.000%	29-Oct-19		33.00	2.64	
		7.650%	01-Dec-19		91.00	6.96	
		7.450%	01-Mar-20	31-Mar-20	31.00	2.31	
					366.00	29.50	8.0594%
	2020.24						4
-	2020-21	7.450%	01-Apr-20		61,00	4.54	6.3982%
		6.300%	01-Jun-20	23-Dec-20	206.00	12.98	
		5.950%	24-Dec-20	31-Mar-21	98.00	5.83	
		-			365.00	23.35	
2	HDFC Bank Limited-IV	8.450%	04.4	47.04.0040	45.55		
-	TIDI C Balik Ellitted-IV	The second secon	01-Apr-19	17-04-2019	16.00	1.35	8,0492%
-		8.400%	17-Apr-19	29-07-2019	103.00	8.65	11
_		8.300%	29-Jul-19	29-08-2019	31.00	2.57	
		8.200%	29-Aug-19	THE RESERVE TO SHARE THE PARTY OF THE PARTY	31.00	2.54	
		8.100%	29-Sep-19	29-10-2019	30.00	2.43	
-		8.000%	29-Oct-19	01-12-2019	33.00	2.64	
_		7.650%	01-Dec-19	01-03-2020	91.00	6.96	
_		7.450%	01-Mar-20	31-Mar-20	31.00	2.31	
-		-			366.00	29.46	8.0492%
	2020-21	7.450%	01-Apr-20	31-May-20	61.00	4.54	6.3982%
		6.300%	01-Jun-20	23-Dec-20	206.00	12.98	0.000270
		5.950%	24-Dec-20	31-Mar-21	98.00	5.83	
					365.00	23.35	
_	2024 22				1		400000000
	2021-22	5.95%	01-04-2021	31-03-2022	365	21.72	5.95%
	2022-23	5.95%	01-04-2022	23-05-2022	53.00	3.15	
		6.35%	24-05-2022	23-06-2022	31.00	1.97	
		6.85%	24-06-2022	23-08-2022	61.00	4.18	
		7.35%	24-08-2022	23-10-2022	61.00	4.48	
		7.85%	24-10-2022	23-12-2022	61.00	4.79	
		8.20%	24-12-2022	31-12-2022	8.00	0.66	
		7.95%	01-01-2023	28-02-2023	59.00	4.69	
-		8.01%	01-03-2023	31-03-2023	31.00	2.48	
					365.00	26.40	7.2335%
_							
	2023-24	8.01%	01-Apr-23	31-May-23	61.00	4.89	
		7.95%	01-Jun-23	31-Mar-24	305.00	24.25	
					366.00	29.13	7.96%
3	HDFC Bank Limited-IX	6.300%	24-Aug-20	23-Dec-20	122.00	7.60	6 14440/
- 10	The second second	5.950%	24-Aug-20 24-Dec-20	31-Mar-21	98.00	7.69	6.1441%
-		3.00070	E-1-000-50	J I I I I I I I I	50.00	5.83 PIVUSH	



					220.00	13.52	
						5 PS-240.00	
_	2021-22	5.95%	01-04-2021	31-03-2022	365	21.72	5.95
	2022-23	5.95%	01-04-2022	22 05 2022	50.00	0.45	
	1022.20	6.35%		The second of th		3.15	
		6.85%		A STATE OF THE PARTY OF THE PAR		1.97 4.18	
	1	7.35%	24-08-2022		61.00	4.18	
		7.85%	24-10-2022		61.00	4.40	
		8.20%	24-12-2022		8.00	0.66	
		7.95%	01-01-2023		59.00	4.69	
		8.01%	01-03-2023		31.00	2.48	
			-23000				
					365.00	26.40	7.2335
	2023-24	8.01%	01-Apr-23	31-May-23	61.00	4.89	
		7.95%	01-Jun-23	31-Mar-24	305.00	24.25	
		1.100.10	07 001120	01 Hidi 24	366.00	29.13	7.96
					000.00	20.10	7.00
4	HUDCO-I	8.300%	01-Apr-19	01-05-2019	30.00	2.49	8.0131
		8.200%	01-May-19	01-08-2019	92.00	7.54	
		8.050%	01-Aug-19	01-11-2019	92.00	7.41	
		7.900%	01-Nov-19	01-02-2020	92.00	7.27	
		7.700%	01-Feb-20	31-Mar-20	60.00	4.62	
_					366,00	29.33	8.01319
_	2020-21	7.700%	04 4 00	20.4			
_	2020-21	7.400%	01-Apr-20		30.00	2.31	7.39869
		7.000%	01-May-20 01-Aug-20	31-Jul-20	92.00	6.81	
		7.00078	01-Aug-20	23-Aug-20	23.00	1.61	
					143,00	10.73	
5	Indian Bank-II	8.2500%	01-Apr-19	28-Jun-19	88.00	7.26	8.25009
					88.00	7.26	8.25009
_							
6	Jammu & Kashmir Bank-IV		01-Apr-19	01-05-2019	30.00	2.49	7.98809
_		8.2500%	01-May-19	The state of the s	61.00	5.03	
_		8.2000%	01-Jul-19	01-09-2019	62.00	5.08	
_		8.0000%	01-Sep-19		30.00	2.40	
		7.9500%		01-11-2019	31.00	2.46	-1
		7.9000%	01-Nov-19		30.00	2.37	
		7.8000%		01-01-2020	31.00	2.42	
		7.6500%	01-Jan-20 01-Feb-20	01-02-2020 31-Mar-20	31.00	2.39	
		7.000070	01-1-60-20	31-War-20	366.00	4.59 29.24	7.9880%
					500.00	20,24	7.000076
	2020-21	7.600%	01-Apr-20	30-Apr-20	30.00	2.28	6.6804%
		7.250%	01-May-20	31-May-20	31.00	2.25	2,200 //
		7.200%	01-Jun-20	30-Jun-20	30.00	2.16	
		7.150%	01-Jul-20	31-Jul-20	31.00	2.22	
		7.000%	01-Aug-20	31-Aug-20	31.00	2.17	
		6.850%	01-Sep-20	26-Nov-20	87.00	5.96	
		5.880%	27-Nov-20	31-Mar-21	125.00	7.35	
			3		365.00	24.38	



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (पाणिज्यक) Addl. General Manager (Commercial) एन टी पी ती लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

						- 1	
_				-	90.00	7.25	8.05%
		8.10%	14-May-23	29-Jun-23	47.00	3.81	
	2023-24	8.00%	01-Apr-23	13-May-23	43.00	3.44	
	2002.51						
					365.00	26.32	7.2108%
		8.00%	14-02-2023	31-03-2023	46.00	3,68	
		7.60%	14-11-2022	13-02-2023	92.00	6.99	
		7.15%	14-08-2022	13-11-2022	92.00	6.58	
		6.75%	14-05-2022	13-08-2022	92.00	6.21	
_	2022-23	6.65%	01-04-2022	13-05-2022	43.00	2.86	
	2022.22		9				0.007
	2021-22	6.65%	01-04-2021	31-03-2022	385	24.27	6.65%
_					365.00	25.02	
		6.650%	14-Aug-20	31-Mar-21	230.00	15.30	
_		7.000%	14-May-20	13-Aug-20	92.00	6.44	
-	2020-21	7.650%	01-Apr-20	13-May-20	43.00	3.29	6.8560%
	6060.01						
					366.00	29.04	7.93429
		7.6500%	14-Feb-20	31-Mar-20	47.00	3.60	
		7.7000%	14-Nov-19	14-02-2020	92.00	7.08	
		7.9500%	14-Aug-19		92.00	7.31	
	The second of many 11	8.1500%	14-May-19		92.00	7.50	1.83427
8	State Bank of India - VII	8.2500%	01-Apr-19	14-05-2019	43.00	3.55	7.93429
					365.00	19.63	
		5.220%	28-Sep-20	31-Mar-21	185.00	9.66	
_		5.000%	28-Jun-20	27-Sep-20	92.00	4.60	
_		6.100%	01-Apr-20	27-Jun-20	88.00	5.37	5.37679
		0.40004	04 400	07.1	00.00		
					223.23		
		1	200 10	0.1 MGI 20	366.00	27.26	7.44769
		6.8300%		31-Mar-20	95.00	6.49	
	8	7.1900%			91.00	6.54	
-1-	I SWITTERING LPAIR LIGHT	7.8500%		28-09-2019	92.00	7.00	7.44769
7	Karnataka Bank Ltd II	7.9600%	01-Apr-19	28-06-2019	88.00	7.00	7.44700
		1		21	366.00	29.21	7.98
	2023-24	7.98%	01-Apr-23	31-Mar-24	366.00	29.21	
	2000 04	7.000					
	11				365.00	25.46	6.9753
		7.98%	27-03-2023	31-03-2023	5.00	0.40	
	V	7.73%		26-03-2023	86.00	6.65	1
		7.78%	27-11-2022	30-12-2022	34.00	2.65	
		7.28%		26-11-2022	61.00	4.44	
		6.78%			62.00	4.20	
		6.28%			61.00	3.83	-
-	2022-23	5.88%	01-04-2022	26-05-2022	,56.00	3.29	
	2021-22	5.88%	01-04-2021	31-03-2022	365	21.46	5.88



		8.1500%	6 14-May-19	14-08-2019	92.00	7 50	
		7.9500%					
/		7.7000%					_
		7.6500%	and the second s				
			14100-20	31-IVIa1-20	366.00	3.60	7.00.
					300.00	29.04	7,9342
	2020-21	7.650%	01-Apr-20	13-May-20	43.00	3.29	0.050
- 7		7.000%				6.44	6.8560
		6.650%	The same of the sa		230.00	15.30	
				011994121	365.00	25.02	
					505.00	23.02	_
	2021-22	6.65%	01-04-2021	31-03-2022	365	24.27	0.00
				0100-2022	303	24.21	6.65
	2022-23	6.65%	01-04-2022	13-05-2022	43.00	2.86	
		6.75%		13-08-2022	92.00	The second secon	
		7.15%	14-08-2022	13-11-2022	92.00	6.21	
		7.60%	14-11-2022	13-02-2023		6.58	
		8.00%	14-02-2023	31-03-2023	92.00	6.99	
		0.0070	1102 2020	01-03-2023	46.00	3.68	
					205.00	20.00	
					365.00	26.32	7.2108
	2023-24	8.00%	01-Apr-23	13-May-23	40.00		
		8.10%	14-May-23		43.00	3.44	
		8.15%	14-May-23	13-Aug-23	92.00	7.45	
		8.20%	14-Feb-24	13-Feb-24	184.00	15.00	
- 1		0.2070	14-1-60-24	31-Mar-24	47.00	3.85	-
					366.00	29.74	8.139
10	Union Bank-II	8.4000%	01 Apr 10	04 07 0040	04.00	-	
	The second secon	8.3500%	01-Apr-19 01-Jul-19	01-07-2019	91.00	7.64	8.07959
		8.0000%		03-09-2019	64.00	5.34	
		7.9000%	03-Sep-19 03-Nov-19	03-11-2019	61.00	4.88	
		7.8000%		03-01-2020	61.00	4.82	
		7.7000%	03-Jan-20	03-02-2020	31.00	2.42	
		17.700076	03-Feb-20	31-Mar-20	58.00	4.47	
		_			366.00	29.57	8.07959
	2020-21	7.700%	01 4 00				
	2020-21	7.350%	01-Apr-20	02-Apr-20	2.00	0.15	6.7019%
		7.250%	03-Apr-20	02-Jun-20	61.00	4.48	
		7.150%	03-Jun-20	02-Jul-20	30.00	2.18	
		6.950%	03-Jul-20	02-Aug-20	31.00	2.22	
			03-Aug-20	31-Aug-20	29.00	2.02	
		6.800%	01-Sep-20	30-Sep-20	30.00	2.04	
		6.750%	01-Oct-20	30-Nov-20	61.00	4.12	
		6.000%	01-Dec-20	31-Mar-21	121.00	7.26	
		+ +			365.00	24.46	
	202-122	8 000	01.04.0001	24 22 22		Section 1	
	202-122	6.00%	01-04-2021	31-03-2022	365	21.90	6.00%
	2022-23	6.000	04 04 0000			100	
	2022-23			10-05-2022	40.00	2.40	
				10-06-2022	31.00	1.98	
				10-08-2022	61.00	4.21	
				10-10-2022	61.00	4.51	
				10-12-2022	61.00	4.82	
		8.25%	11-12-2022	20 12 2022	10.00	4.07	
_				29-12-2022 10-01-2023	19.00	1.57	



परिमल पीयूष/PARIMAL PIYUSH अपर महाग्रवन्धक (वाणिजियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EDC A-BA. Sector-24, Nolda-201301 (U.P.)

7.65%	11-01-2023	10-02-2023	31.00	2.37	
7.90%		A STATE OF THE PARTY OF THE PAR	49.00	3.87	
			365.00	26,64	7.2975
					-
7.90%	01-Apr-23	10-Jan-24	285.00	22.52	
8.10%	11-Jan-24	31-Mar-24	81.00	6.56	-
			366.00	29.08	7.94
8.200%	01-04-2019	The second secon	177.00	14.51	8.0276
8.050%	25-09-2019	THE RESERVE AND ADDRESS OF THE PARTY OF THE	30.00	2.42	
8.000%	25-10-2019		61.00	4.88	
7.850%	25-12-2019		31.00	2.43	
7.750%	25-01-2020		31.00	2.40	
7.600%	25-02-2020	31-03-2020	36.00	2.74	0.0070
			366.00	29.38	8.0276
7.600%	01-Apr-20	24-Apr-20	24.00	1.82	6.7032
7.350%	25-Apr-20	24-May-20	30.00	2.21	
7.250%	25-May-20	24-Jun-20	31.00	2.25	
7.150%	25-Jun-20	24-Jul-20	30.00	2.15	
6.950%	25-Jul-20	24-Aug-20	31.00	2.15	
6.800%	25-Aug-20	24-Sep-20	31.00	2.11	
6.750%	25-Sep-20	30-Nov-20	67.00	4.52	
6.000%	01-Dec-20	31-Mar-21	121.00	7.26	
			365.00	24.47	
6.00%	01-04-2021	31-03-2022	365	21.90	6.00
6.00%	01-04-2022	10-05-2022	40.00	2.40	
6.40%	11-05-2022	10-06-2022	31.00	1.98	
6.90%	11-08-2022	10-08-2022	61.00	4.21	
7.40%	11-08-2022	10-10-2022	61.00	4.51	
7.90%	11-10-2022	10-12-2022	61.00	4.82	
8.25%	11-12-2022	29-12-2022	19.00	1.57	
7.50%	30-12-2022	10-01-2023	12.00	0.90	
7.65%	11-01-2023	10-02-2023	31.00	2.37	
7.90%	11-02-2023	31-03-2023	49.00	3.87	
			365.00	26.64	7.2975
7.90%	01-Apr-23	10-Jan-24	285.00	22.52	
8.10%	11-Jan-24	31-Mar-24	81.00	6.56	
			366.00	29.08	7.94
8.2500%	01-Apr-19	11-04-2019	10.00	0.83	8.0556
8.2000%	11-Apr-19	11-10-2019	183.00	15.01	0.0000
8.0500%	11-Oct-19	11-11-2019	31.00	2.50	
8.0000%	11-Nov-19	11-01-2020	61.00	4.88	
7.8500%	11-Jan-20	11-02-2020	31.00	2.43	
7.7500%	11-Feb-20	11-03-2020	29.00	2.25	
7.6000%	11-Mar-20	31-Mar-20			
	1.1 11/01-20	O I-IMBR-ZU			8.05569
				7.6000% 11-Mar-20 31-Mar-20 21.00 366.00 परिमल पायूष/PARIMAL PIYUSH	366.00 29.48



परिमल पायूष/PARIMAL PIYUSH अपर महाप्रवन्धक (दाणिरियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

	2020-21	7.600%	01-Apr-20	10-Apr-20	10.00	0.76	6.67059
8	1	7.350%	11-Apr-20		30.00	2.21	
		, 7.250%	11-May-20	10-Jun-20	31.00	2.25	
		7.150%	11-Jun-20	10-Jul-20	30.00	2.15	
		6.950%	11-Jul-20	10-Aug-20	31.00	2.15	
		6.800%	11-Aug-20	10-Sep-20	31.00	2.11	
		6.750%	11-Sep-20		81.00	5.47	
		6.000%	01-Dec-20	31-Mar-21	121.00	7.26	
					365.00	24.35	
	2021-22	6.00%	01-04-2021	31-03-2022	365	21.90	6.009
	2022-23	6.00%	01-04-2022	10-05-2022	40.00	2.40	
		6.40%	11-05-2022	10-06-2022	31.00	1.98	
		6.90%	11-06-2022	10-08-2022	61.00	4.21	
		7.40%	11-08-2022	10-10-2022	61.00	4.51	
		7.90%	11-10-2022	10-12-2022	61.00	4.82	
		8.25%	11-12-2022	29-12-2022	19.00	1.57	
		7.50%	30-12-2022	10-01-2023	12.00	0.90	
	8	7.65%	11-01-2023	10-02-2023	31.00	2.37	
		7,90%	11-02-2023	31-03-2023	49.00	3.87	
					365.00	26.64	7.2975%
	2023-24	7.90%	01-Apr-23	10-Jan-24	285.00	22.52	
		8.10%	11-Jan-24	31-Mar-24	81.00	6.56	
					366.00	29.08	7.94%

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यक) Addl. General Manager (Commercial) एन टी भी ती लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

(Petitioner)

		2019-20	2020-21	2021-22	2022-23	2023-24
	Euro Bond -III	7.1968%	7.1968%	7.1968%		
2022	Euro Bond -IV	5.0243%			5.0243%	
		No of days	Product	WAVG rate		
	SBI, NEW YORK	44	1.914396			
	SBI, NEW YORK	75	The second secon			
	SBI, NEW YORK	185				
-				3.86190%		
-					me williage	
					100	
					10	Petitione

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (कामितियक) Addi, General Manager (Communicial) एन टी भी सी लिनिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-281301 (U.P.)

Rihano Year w	I-III ise Prepayment of Loans		tion to				(Rs Lakhs	)
Sr. No.	Bank	ROI on prepayme nt date	Date of Prepayme nt	Replaced with Bank	ROI of relplace d Loan	Prepayment Amount	Benefit(%	Benefit( %) retained with NTPC
Prepay	ment of Loans in 2016-1	7						
1	Allahabad Bank-III	9.55%	20-Dec-16	ICICI V	8.80%	2285.71	0.75%	0.25%
2	Dena Bank-II	9.40%	THE RESERVE OF THE PERSON NAMED IN COLUMN 1		8.80%	10000.00		
3	Punjab & Sind Bank-I	9.60%			8.00%	3214.29		
4	Bank of Maharashtra - III	8.70%	The state of the s	Karnataka Bank -I	The second secon	The second secon		
5	Bank of Maharashtra - V	8.70%		Karnataka Bank -I	7.70%	2812.50		
						20098.21	110070	0.0070
Prepay	ment of Loans during 20	17-18						- "
1	LIC-V	11.00%	16-Sep-17	ICICI-VI	7.90%	4270.00	3.10%	1.03%
						4270.00		1.0070
Prepay	ment of Loans during 20	18-19						
1	ICICI Bank- V	8.60%	11-Jan-19	Corporation Bank	8.20%	12285.71	0.40%	0.13%
2	ICICI Bank- VI	8.60%		Bonds Sr 67	8.33%	4270.00	THE RESIDENCE PROPERTY.	
						16555.71		0.0070

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिडियफ) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

(Petitioner)

Year wi	se Prepa	yment o	of Loans			•	(Rs Lakhs	5)
Sr. No.	Bank	ROI on prepay ment date		Replace d with Bank	ROI of relplac ed Loan	Prepayment Amount	Benefit( %)	Benefit( %) retained with NTPC
Prepayn	nent of L	oans in	2020-2021					
1	HUDCO	7.25%	24-Aug-20	HDFC-IX	6.30%	2.043.00	0.95%	0.48%
. 2	PFC-V	7.83%	15-Oct-20		Committee of the state of the state of	1,662.50	2.38%	1.19%
3	PFC-V	8.17%	15-Oct-20		The second secon	4,200.00	2.72%	The second second second
. 4	PFC-V	8.30%	15-Oct-20	BOND-72		1,750.00	2.85%	1.43%
6	PFC-V	8.23%	15-Oct-20	BOND-72	5.45%	6,125.00	2.78%	1.39%
						15,780.50		7.0070

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

(Petitioner)

144							
ame of the Petitioner Year wise Sta	tement of Addi	tional Capita	disation after	COD			
ime of the Generating Station			NTPC Limite	d			-
00			Rihand Supe	r Thermal Po	wer Station Sta	ge-III	
r Financial Year			27-03-2014				
			2019-24 (Sun	nmary)			7
I. No. Head of Work (Equipment)			105.01			Am	10
ricad of Work/Equipment	2019-20	2020-21	ACE Claime			Justification	
1 2			2021-22	2022-23	2023-24		Co
<ul> <li>Works under Original scope, Change in Law etc. eligble for Ro</li> </ul>	E at Normal Re	de	5	6	7	8	
	The state of the s		1				
A.1.1 Works Under original scope in main plant packages							
.1.1a SG+TG .1.1b Coal Handing System	170.44		242.20				154
1.1c Switch gear Package	2.64		-91.68	-			
1.1d SWITCHYARD Package			31.50	_			
1.1e Road & Drainage		37.18	23.23	7.63	21.62		
.1.1f Fire Protection Package	40.68	1.70		1.00	9.14		
1.1g Transformers Package: Power Transformers		32.83	5.00		9.14		
1.1h Main plant/Chimney/CW System/Offsite Civil works	1.55	0.21	20.48				
1.1i Tools & Plants	-	19.40					
.1.1j STATION C&I Package	14.81						
1.1k Temp. construction & enabling works	0.02	8		13.23			
1.11 Air Condition & Ventilation System	0.26	0.08	2.83	4.69	0.12		
- State of Control of System			6.16		0.12		
1.1m ELECTRICAL EQUIPMENTS (Cables, Cable facilities & Grounding	222						
1.11   P1 Plant Package	-1.56		17	6.62			
1.10 Central Repair Facility (CRF) Building - Civil Works		3.20	78				
Subtotal (A.1.	2.57		4	0.17			
	231.41	94.59	206.91	32.34	30.88		
1.2 Township: Quarters and other facilities	62.54	00.65	7				
	53.54	98.08	112.46	38.93	13.15		
1.3 Ash Water Recirculation	10.16	100.40					
	10.16	162.49					J1900
1.4 MGR		200.00					
		200.00					respective
1.5 Sewage Treatment Plant	135.84	4.00			3-11-2-2		
	133.04	4.90					
16 Ash Pater IIII							
1.6 Ash Related Works		5,724.95	2,482.94	6.07	*****		100
.6a Wagons/ Bogie for transportation of Ash through Rail			2,702.34	6.97	6,625.93 PI	l. refer Form-9 of	respective
. Bogey Tank For Alumina Powder (BTAP) Wagon for Ash		4,623.54	2,420.84	_	F	Ys.	cobernio

		858.044	7,117.296	3,598,508	677,484	6,934.696
otal Add	Cap. Claimed (A+B)			-	-	305.144
	Total (B)		-		-	305.144
5.1	Total (R)	- I	OF THOSE BE WE	u. Average ra	te of Interest	
B.1	Works beyond Original scope extuding add-cap due to Change in Safety & Security of Plant	Law eligible	for RoE at Wi	3,598.51	677.48	6,629.55
В.	Total (A)	858.04	7 117 30	2 500 50	-	-
	Total (A)	401.03	1715.92	859.66	721.13	641.10
A.5	Discharge of Liability	491.83	1745.00			
4.6		300.21	5401.38	2738.84	-43.64	5988.46
	Total Claims	366.21	-13.33	-167.65	-649.91	-922.86
A.4	Decap of MBOA: Part of Capital Cost	-123.88	49.55			
		-56.79	-1124.69	-29.51	-85.07	-43.91
A.3	Decap of Spares (Part of Capital Cost)	E0 70	4200			
		115.92	175.18	114.40	613.09	130.09
A.2	Capitalization of MBOAs					0,023.14
	Subtotal (A.1)	430.95	6364.21	2,821.60	78.24	6,825.14
			10.20		_	
A.1.10	Online-Analyser for CEMS for CO, CO2, Sox, Nox		79.20			1,0,0
A.1.10	Online Assis					-204.63
	Decap on Upgradation of HMI					359.81
A.1.8	Upgradation Of HMI System					
			100	19.29		
A.1.7	AGC Implementation		V. XOVERNOON			0.43
and a	di Gerilla Asii Dyke Lagoon-II		1,019.14	20.50		6,625.48
	Dry Ash Extraction System, Stage-III (Allowed Work)  3rd Raising of Central Ash Dyke Lagoon-II			0.02	0.97	0.605.1
A.1.6c	T TOTAL STREET,		3.31	0.02	6.97	
A.1.6b	Bogie Brake Van Type-BCVM Ash Bricks Plant		78.95	41.58	-	

(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH अपूर महाप्रवृन्धक (वाशिरियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

CYNES OF	of the Pattitioner		Yang	Witn State	CENTRAL OF ARREST	hered Capital	determinent	nn.			
NAME OF	of the Generating Statice					10.000					PSIT
							MTPC Liverto	el .	0.00		PORM
ESC. FOR	WEST TRU						2T-/YI-0014	I DOLLAR	al Power Sta	Dicer Siago-B	
			_	_				-			
				ACT CO.	-						
W. 84	0.40.004.000.000.000	1	75277	ACT CIRE	med.		_	11.		44	stated to the U.S.
77.7	mend of Marie (Equipment	Account of the	Accress	100000000000000000000000000000000000000	Access			The .	Property Page		T. Tarana
		Pierty Name	bows as part			Listation		400000000		7	Admitted
-		1	Note 2	- 44						Justification	Centifyth
A	Worte under Orbeited access The Control of Control	3	-	-		004.3		1.0	Filmed		
	the straighte scope, Change in Law etc. engage for &	off at Novembl Rate		- 1	- 4	7		0	10		FARY
1.0	Chimed Almond times				-				10	The state of the s	150
					-		-				1 12
ALT	Works Under original scope is many plant packages						-				4
								-			
VT field	SG Name and Con.								1		
State	TG ware	GHells.	3674		-			-	1		_
	Britania (CA)	DIGE		-			78.68	- 4	1	3, 1 1 1	
4.130	Coll Hunding System Subsettle (A.1.1a	The second secon	176.71	-			91.95	-			
			3.60			23)			19 m 19		
		Miles   1985									
1.1.15	Fig. Drobotion Parkeys	Perf									
Street   S											
1.150	Transferous Recipio Priem Transferous	CG Power And Inchestow	0.50	-	0.57	9.57	- +	- 1	39C000A	The concet positional contains about the contains and the	
		Second Property   Second Pro									
1.15	Main participations TW System Charles Chicago In										
		1964   1964									
1 10	Total Control of the	Schweider in lectory		-	34.44		24.80	-		CONTROL OF THE SECOND PROPERTY OF THE SECOND	
1.18	with contraction & enabling wintly	Logsender Factoringen Fly	-	mile.		100	1.47	-	D		
1.03	ELECTRICAL EQUIPMENTS (Cable Cable facilities &	1.50	0.36	. +	1.26	100	9.26	1	6. II		
		Petron Engineering	-1.89		4.64		_				
		Lanco Infratorn Ltd		- 1		0.48	-1.56	-			
	Subtistal (A.1.1)		The state of the s	- 4		-	257	-			
			492.16	-	395.79	19.37		- 1			-
					11.4.1		2000	-			
									1	These word partial to original scope forms that owns determined.	
			1		- 4		- 1		- 1	of constitucions madecal i.e. aggregates white the man plant works were recommon for to unavailables.	
							1			This instant employ against on that works has been recognized by this Herybia Commission by	
			) II								
									1 1	Since the ream plant activity was delayed due to delay in the works. The real	
15.	Concerns) Geometre and other tackline.	Voccus Plantes	9,000		200	10000	275555			. 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	-0.00	1000000	95.91	- 1	60.91	28/37	80.04		28(1)(8) 8	After completion of plant that works, as the township works were common or	1
	1										
	Performance	Edition of a good of the constitution of the c	. I								
	1						- 1		k	Retirement accounts of NGT cross energial in community in the fact will leave to partie in Inventitio out seeing	1
		1		- 1	11		1		3.5	The second secon	
- 1									7	The greaters integrated according foregoods what works of biographic that accordingly the	1
-								- 1	15	construction instante earlier due to aggregates unavailablify and later due to present an expensively	1
-								- 1	- 1	The state of the s	- 1
- 1			-	-		- 1		-	-	Sprittle Compression Class for present by edge the party.	
							-	-			
	in Water Recognition	School Street Commun. 1							17	Tests works are past at the Cingest Surge of works and year companied & constraint	
13. JA		of a substitution of the s	95.60		40.00	100	19367		17	Comment of the Control of the Contro	
7 A	D.										
3 A	1	am-posterioritico)			30.00	40.00	16:10		25(1)(8) 7)	Michigan application of the contract of the co	
3 A		4					16.10	13	25(1)(H) T)	the content additional capitalitation pertains to the remake of business payments on account of	



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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिविवक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

Varue o	f the Publicacy		Year	wine Number	ment of Addin	binel Centus	berion after o	20			PART
Same o	f the Generating Station						MTPC Limiter		250 70 70		PORM
DOG Circ	and Mage			_			Situat Supe	Thurs	Power Rive	First Stage-III	11111000
30, 1944	Print Page						27 03:3514				
				COLUMN TO A STATE OF THE STATE	- nigram						
	0.04400456000000000000000000000000000000		1	ACECNO	ned	Un-		-	and the same	len len	ount in Re Last
51. Mo.	Head of Work Equipment	Farty Maree	Account Statis as per force 2	he AG Adj.	Accress basis as per loader	discharged Usblilly	Costs basis	ISC Include It in cor		Anthreten	Admitted Cost by the Commission If any
A	Marks under Grightst scape, Change in Law 60, slights for Ro	Fortune 18 and	4		- 6	T		1	10	"	120
0.000	100000000000000000000000000000000000000	OL ST. SOUTH ST.	-			-		-	-	The state of the s	12
A18	Sewage Traggrant Plats	Pigitolech Paryauskan (India) Par Lidd Erwiro Cane Grigge Chaanan Srothers	94.80		140.06	8.11	130.64	33	20) 1(00)	The parametrished visits allowed by Hombie Commission in coder did. 37: 12:2028 is settlered on a 200471 20008 is 2019-28 parted Grader Change in Law as par the directions of Utilar Products. Color of the Settlered Company of Pollucion Color of the Settlered Company of the Pollucion Color of the Settlered Color of the S	400
4.18	Paccage 64V		-70.66		-75.88	-75.68			79 (9d)		
	Battletol (A.1)		473.57							same as and when the labelles are Performed	
			41237	-	473.57	42.62	420.85	-			
	Copilatewhere of MSO,Au		135.41		125.41	10.49	HS 83	-	25(2)(2)	These MECAs were registrated due to replacement, of assets which were deproyed under engine terce. The old assets curried their starful till one were fully deposited. Her be contributed their business of proceedings are propositioned of allow the mightalization of ones interface are part Regulation. 2013 or of 'act' and 'act' are set allowed to be a proposition of the proceedings of the pro	F 71
5.5	Decep of Spares (Park of Capital Costs)		-4121	-10.51	49.79	1	-86.70		29(2)	Trace space were part of capital year, have become precived able. Accordingly the same are	
44	ANN AMERICAN STREET, S			-	-		70.19	-	200.01	decaphabled	30
24	Cecap of MSQA: Part of Capaci Cent		-125.68	1 1	-123.66	1 12	-123.6m		25(2)	These sheets were part of outpile cost, take became preservousce. Accordingly the same are	
				100		-	7100.00	-	69(4)	Christoletical Process Col., Laboration & Enderschape, Accordingly the same and	
trina.	Total Cisian for prov		429.85	-10.53	419.12	50.11	308.21	-			
	Aut Desharps of leastly consequenting to allowed started works						491.63	- 11	25(1)(6)	Details gave in Ports-5, us., Linking Plan Statement	
	Telef actorional capitalisation claimed with RoC at Hornsol Rele (A)						888.04				
	Works beginned Chilghood accept exchanging additional distributions	in Law original for Rot of Wist A	verage rais of	letoout							
	Togal   Mg										
						-	-	-1.			
tal Acc	Cap. Clairead						40000				
						_	859.64				-
										Dell	

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवासक (वाणिणियान) Addl. General Manager (Commercial) एन दी मी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

Year wine Sharemant of Applicant Combelluation after COD PART I FORM 9 Name of the Periform? Name of the Gerwaring Station Citio For Financial Your MTPC Limited Strand Super Howard Prover Station Stage III 27 03:2014 2009-21

			123	Chairmed			_	-		g. And	nettio Sa i
St. No	Head of Non-Ecosposes	Rath Name	Ancreal basis as per Nate 2	the Asian	Account bests on per 150000		Confr basis	iDC mitute din dat.3	Regulation is analise which claimed	destification	Acres Goet by Convine
A.	Works ander Chapters wrose, Change in Law e	1	4	8		GH-1		-	40		17 any
A1.1	Sworts Linder original scope is state plant per	in, engine for you at his one for faces							- 1	11	12
43	Claritat Associations							-	_		
_						-	-	+			
ALL	Electric binder or les aut auces in moin plant Food & Dischaue			-		-	-	-			-
A.I.11	SWITCHOME Purious	Parinus Parine	1.70	- +	1.70	-	1.20	-			_
8,536	First Protection Postage	Stratist House Electrons List Strain Inswellers India Ltd	40 H	-	4531	3.12	27.16		1		
A.1.10	Transference Package	CO Pewer And columbral		-	30,00	-	20.81	-		These works are part of the Crigalist Stropp of works bad were completed & capitalised before cylingly case.	
	Man plack/Chimney/CW Spatier/40/feld Civil	Section	16.00	-	16.63	66.76	621	100			-
A.I.W	Moles	Simples of sectively may 1,08	712.54	. 2	19254	8916	15.46		SHIRIDA	The current wideless inputs tables pertains to the resease of basine prepriets on account of perfer mance lost and other contact.	
6.156	Temp, solehinsten & erabing episa	Various Parties	130	-	9.00			-	25100	element activities.	
27.14	participation, LOUP Month Libration Cable	Frebox Engineering	166		1.60	1.60	1.01			Harible Commission may be pleased in allow the passe.	-
	PY Pseud Peditage	Monetly Eheret Engs.	3.29		0.50	-	5.50	-		Problem and the problem of the probl	
A1,1	Cook of Proper Feet In COSC Building - Ovi	Lange Minimetrized	36.14	-	-	-	3.28				
-	Summer LA.S.	4	242.91	-	34.14 882.91	148,51	-	-			-
			***************************************		406.91	140,01	34.21				-
A12	Sissephy Guarters and other business	Venue Patrici	270.00	1 - 457	1-10-00		100			And fraction as provided in A.1.3 of from 19.2819-201	
-			120.00	2.5	125 02	21.04	90.00	-	34 000 5		
_				-	-	_			29,199	SOFTER Commission trips to obtained to allow the copyrights to	
							-	-	_		-
Atta-	Auth Water Phronicolarise's Signature	Bindge & Floof Company India	32-5	1	3.04		1		90000	These works are part of the Corporal Scope of works and work unreplaced it populational before yet off bloks.	-
	CV 000 00 000 000 000 000 000 000 000 00	na	102.46		10.40		102.46	100	29x100es	The current delitering capital calcin perterns to the nonace of balance payments on account of content closure activities.	
-		100			100		10000	1.	50000		1
_					-		-	-	_	North-Commission rock to pleased to office the terms	
		1 1								Trace works are part of the Crighal Respect scale and were completed & cappained before out-off days.	
6.14	MGH	1 1	200.00	35.	200.00	76	5300		4.000.00	The state of the s	
		1 1	200.00		200.00		790.00		2001.00	The current additional cognitization postative to the resource of socious payments on occount of continue extreme extrames	
							71.70				1
letion.	DANCES CONTRACTO	Access to the second second	-	-	1.					Specials Commission may be pleased to about the same.	
K19	Reverse Treatment Plant;	Production Pagavaryin Smile) Prot. USB	TEM		15:04	14.14	4.86			Association as provided in A.1.5 of from to 2016 ptr.	
_		P16.104	1775	1.33	1000	14.14	480		26,190		-600
A.S.R.	AM: Related Blocks								-	Northis Commission May be pleased to allow the completeness	1000
			- hi	-							
104	Vingosar Rage for hympothesis of Aut Sewage Hair			*	2			74	0	It is culturally also INCETED with contraction sets (0. F1.200) and discovery that all the Tribunian Provey Plants state address 1976. April 17.200 To a further exterior S years. Subsequency, Adv notification and 25.05.2016, the talget date by 1976. And allocation was noticed to 17.2007 to a further extended to 15.05 and except of Lord Collection (0.1) under the Collection provided to 18.05 and a date, by 20.00 or discount address plants for the tales are under the formal Provided Provided Provided Provided International Collection (1976), the collection of the tales are under the collection of the tales and the Language of Tribunian (1976), the collection of the collec	
1.tu-	Bogoy Tatik Fox Aummer Plande (STAP) Wages for Aus	Textrato Rall & Engineering	120,000	il .	lasers.	155117				Interview-28(1)  It instantively interview that it view of the member launch of Parami STPS, it is not preside by without that it view of the member launch of Parami STPS, it is not preside by without the paramin launch and a state of the paramin	
	THE AME	ing	5,861.76	9.00	5091,71	436.16	4,603.64	-		tratination of the same to remove against the addression.	
										Or interspecting the ANN Ferm Rinners STPG to 40H age focation, Sogile Tanker Car for Attention Provide (BTCAF) veggots are required SCAF and helder and region with a special air fluidoting-system for charteninging powder from the bottom through passes like a fluid. In every within a person of star generated them the instant station and remainted of the dualitie, first is sociosally representative by empty with the disclosions of bioCTPLCC.	
1000	From Diete von Type SCHIII	Terraco Rat & Singersamp Lts	76.85		24.00		76.66		l'	is further extremely direct House Elementation wide coder also per 10 2002 in 200M/VICET has allowed recovery of each transportation representation adjusting the reviews intrough sale of web. The instance state is a reviewing expensional colorest access or recovery each sale.	
										Set territories in contract and a set of the	5
						91			100	he perbonar furnities submits that this powerst expenditure is bounded developing infrastructure for exesting our utilization as an assess by MySTACC.	THE S

And See of Parties of Contract in the Parties of th

-	COMPANY CONTRACTOR SALES					made.	7,447.00	-		
_	Total St. Total And, Cap. Classes M+88						-			
-			-	-						
H.	Hotics, beyond Original syraps exhibiting additions	day to Change in Law slights for Rod	at 1984. Average rate	of Interest						
	el Sormal Flats (A)						2117.30			
	Total additional copilationhor clarged with Roll						1115320	-	28(40)	States green From S. Le. Locally Flow Statement
A.S	ASI, Devings of liability corresponding to eleved carried works.						Inse		-23550	
_	Total Glain Ma		6,363,08	297.50	6,083,08	465.75	5.401.54	-	_	
-	Deliver of Helical Particle Case of Cont.		-13.15	-522	-10.23	- makes	-633	+		These sweet was plot of aquite and, have became appropriate Associately the same are desectable.
	Dense of HEDA (Part of Classic Code		-805 73		1,126.00		11,124.89	-	250	These spaces were part of copied cost, have become unknownessing. Accordings the same are immediately
	Capital cabox of Miscole  Capital cabox of Miscole  Capital Capital Capital Capital  Capital Capital Capital  Capital Capital  Capital Capital  Capital Capital  Capital Capital  Capital Capital  Capital Capital  Capital		2696	1	215.96	4676	175-16	-	2503940	These MICAL work load about the ineplacement of stabils which were deplayed under original bodge. The old process build such a few mind of processes that the conversable has been a few or the processes that the conversable has been processed to other the contraction of stock MICALs as per September 19, 10 or 17 at 17 languations, 2009 as replacement of these MICALs were reconstrated since the such that so that the stability of the MICALs are the such that the stability of the MICALs are the such that the stability of the MICALs are the such that the stability of the MICALs are the such that the stability of the MICALs are the MICALs are the such that the stability of the MICALs are the MICALs are the such that the stability of the MICALs are the MICALs are the such that the stability of the MICALs are the MICALs are the such that the stability of the MICALs are the MICALS are the such that the MICALS are the
-	wante (4)		Killing	-141	6,967.0	525.91	6,161.21			
	Solonoria II	777,000,000,000			-		9075		1771111	guidanne, Phillif generation inteched as Anneaum 2007; Honthe Commission may be pleased to after the same
ALI	Children Analysis for CEING for CO. COO. New, New	Forces Manufact Put. 1/16	Ykte		79.56	-	79,21		26704	As par transverse for Continuous Emission Montaining Systems request by MASF, the CEMS result have the capability of order date maintaining. The present capabilities have been detailed another product of the CEMS result have the capability of order date.
ATI	Pointings 519'		-0.07	-	01.42	10.40	-		25/308	The present dephalasion is remaissment of labitation due to Frenty: Exchange Rate variation corresponding to the mones allowed by Hendric Commission. Herdric Commission are declared by Hendric Commission.
200	W. Carlos		8,197,28	-Lat	£.55.01	\$70.64	8724.9E	=		
A166	3rd Planting of Californi Asia Dyna Lagranol I Balantair (A. F. II)	Subtered Prestige Construction Co.	1,088.00	ાંગ	1,85130	10.19	12/9/4	- 53		And dissuming as a continuous activity being called out during the life of the grant, it restains in operation, in-order to base optimize entirely or of most for and displaced, remembers of the activativation land compliance with the directions of statetary modes, reported of land large most been orthogonal by travery of the sain syste for creating the seaso of departs of sea. The Horizer Constrained may be present to allow the same.
										Harrista Commission may be photocom allowing sums
A 1.0x	Act Wichel Plans	Plate Distage	3.51		131		itan i	10		Rip further submitted that Horitise Continues on vide order cits 36, 10 2022 or 2004/P2021 has allowed receivery of each transferration superior after extending the removes through seas of each. The instant station is including expension or each stational access of three participants and the superior of the participants of the participants and the participants are three or each stationary for each station as a manufacture or substation as a superior of the participants and the participants are three or each stationary for each station as a manufacture or substation as a superior of the substation as a substation as
							- 1			Том домина социальности и послуж того, абставания и ная на монорого у опад-вост му нацываем от или поступально.

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिजियक) Addi. General Manager (Commercial) एन टी पी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

	4 COS (COS ) COS (COS )			Year wise	Statement of A	Additional Capit	alization after	.000			PART-I
	he PatiSoner he Generating Station cial Year						MTPC Limits	rd	if Pewer Station Stage El		PORIS- 9
17.	-			ACE Chines			7010000				Amount to Ra Lakh
51. No.	Hosel of Work /Equipment	Party Name	Account basis as per Note 2	ind A9 Adj.	Accreal basis as per	Un-discharged Liability	New York Co.	IDC include	Regulations under	JaMilloutien	Admeted Cost by the

Amount t	ot to P	Ano							ACE Chines				
Cor	Admeto by to Continue		JaM Routen	Regulations under which clained	IDC include 6 in cst. 3	Gesh basis	Un-discharged Liability included in eel. 3	Accruel basis as per IDAAP	ind AS Adj.	Annual basis as per Note 2	Porty Name	Hosel of Work /Equipment	SI. No.
	-			10		. 8	7	0.8	5	4	1	Words and a Daylor of	A
-	12		- 11	- 15					77	Jorreal Rate	to in Lawretc. eligible for Mott at N	Worlds under Original scope, Charg	
				_								Chared term	A1
-	_										plant packages	Works Under original scape in man SG+TG	A.J.Ia
-							-			14.15	SHIRL New Cells	SS bland and ESP	A.1.1.i
				3 1	-	9.91	4.13	14.05 236.09		236.09	EHB., New Dulhi	TG hand	81.14
taliant		a and ware complified & capitalised	These works are part of the Original Scope of works and were comple	5 10 1	-	252.29	7.94	250.14		250,14		Subscraf (A.1.1a)	2000
			Seriora sub-off data.	1	1.6	242.20	7.84	-91.66	-	-91,68	2000 Carlotte	Coal Handling Plant	A1.1b
200			The entered partitions are as a second	Destroy		13.23	8.87	32.10		32.10	SHEL New Dalte:	SWITCHYARD Package	A-1.16
of		adjustment and the release of	The current additional capitalization pertains to cost adjustment and to	24(1)(b) B	-	3.60	9.87	3.69	-	3.09		Road & Oremage	A3.16
ther	_	zion and other PG tests and other	halance payments on account of material reconciliation and other PG contract closure activities.	25(1)(6)	-	30.48		20.48	+	20.48	CIS Power And Industrial Seledions	Transformer Package	A1.1r
_		ane.	Horible Conversation may be pleased to allow the same.			2.80		2.83	-	2.83		Twinp, construction & enabling works	ALIF
1		,000-E		0		0,55		8.56		6.16		Air Condition & Ventilation System	A.I.lig
	_	- 1		8		6.16	16.91	223,72		223.72		Subtotal (A.1.1)	
				_		205.91	16.01	188,78		244.5			
			JaMificetion se provided in A.1.2 of form "9.25% 26".  Hontale Commission may be pleased to oboy the capitalization.			112.40	14.61	127.07		127.07	VANOUS Parties	Township: Quarters and other facilities	A.1.2
_		spearation.	Contract and any or beautiful to those the contractions									Ash Related works	A1.3
												Transportation of Ash through Rule	A1.1s
		5 1	Justification as provided in A. 1.6a of fave "9.20-21".		-	2.430.04	209.16	2,629,99		2,529.99	Termsco Roll & Engineering Ltd	Bogey Test For Alumina Powder (STAP) Wagon for Aun	A.I.Jai
		aphilication.	Homble Commission may be present to allow the explainsation.		-	41.58	200.70	41.58		41.58		BOGIE BRAKE WAY TYPE BYOM	
+	_		Assilfaultion as provided in A.1.65 of form "9 20-35".	26(1)80	4	0.00		0.02	-	0.02		Ash Dricks Plant	A,1.36
+			Houble Commission may be pleased to align the capitalization.  Justification is provided in A.1 for all from "9.28-21".		-	20.90	1(+	20,50	5±	29.50	National Prestige Construitme Co	3rd Harsing of Central Ash Dyke Lagoon d	A.1.36
			Hostale Commission may be pleased to allow the capitalization.		-	2,482,94	209.16	2,682,10		2,592.10		Subtotal (A.1.3)	
					-	- According	277110		- 10			-10	_
Rase		es due to Foreign Exchange Rate (file Commission, Horste and when the lightliftes are	The present capitalization is reveniencent of listoites due to Foedigh sensition corresponding to the works allowed by Heinfeld Commission. Commission may be pleased to allow the sense as and when the least factorized.	25(1)(2)		.50	10.54	10.54	1/2	10.64		Packago EMV	A1.4
		The Convention, Horste and when the liabilities are	commission may be pleased to allow the same as and when the institu- factoring on the pleased to allow the same as and when the leable factorings.		-		10.54	10.54					

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (बाणिविधक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

A15	AGC treplementation	Alife finds United	42.57	-0.38	N2.00	42.71	10,39		264 top	High the Commission wide is order stated 20.00 ppr observation as 31 time(C2018 directed at 1956 stations to implement the ADC as per observation given below. "94 to the interest of valiable and sale grid operation, rise Commission africal time at 1953 stations whose tasks is determined as varieties by CEPC state to AGC-enabled and the annihilary pervises including secondary control through AGC be implemented as per the following direction."  1. All charmal AGCS stations with metabled capacity of 200 MW and above and all Ayelin stations having capacity accessing 20 MW variating the floor-ENVer Hydro Projects wheelped to all of the generating states and states to this 5 determined as adopted by GERC are directed to Justial equipment at the will conford increase or received to Justial equipment at the will conford increase or received to access and required data for AGC as per the requirement to be notified by MLDC. MLDC observationly, the confidence of requirements within one month of this order.  Copy of enter dated 20.00, 2019 is attached as American-GCH.  Accordingly, in commission of direction of Horizon Commission, implementation of AGC are carried out at the installed states of Horizon dependence increased an engineerable of AGC in Potton No.26646 T/2000 vide is context dates in formation or AGC as Potton No.26646 T/2000 vide is context dates 27.05.0222 Treatment in the properties of the Agree
_	Subtood (A.1		2,115.80	-0.16	3,115.43	255.82	*****	1		the same at the instant station under fragulation 26 (1), 50 of Taliff Regulations, 2019.
			-	-	AL INCH	633.82	2,821.60			
	Cresistation of MRGAs  Decay of MRCAS: Part of Capital	Vaxous Penies	165.69	0.45	168/32	54.92	114.40		25(2)()(	These MSCAs were captailed that to replacement of assets which were deployed under original acops. The old easets outside their seeks life and were duty deployed the captaillation of these MSCAs as per Repusion 25 (2) to of Tariff Regulation, 2019 as replacement of these MSCAs were necessitived since the useful sits of these seeds were not constructed with the of the state.
A3	Cost		-25.19	₹ 23	-29.51	-	129.91	1	26(2)	These assets were pad of capital cost, have become unsurviously. Accordingly the terms are decaptained:
A.4	Decap of Spares Part of Capital		-125.01	-42.65	-167.05		-167.66	-	2500	These spanel were part of capital rest, base become
	Tatal chim (A)		2,134.81	-45.92	3.087.50	348,74	2.738.84	-	1794	same are decaptained.
A.5	Add: Discharge of liability corresponding to allowed claimed works						889.56		25(100)	Octalis given in Force-S, i.e., Liability Flow Statoment
	Total additional capitalization statemed with ReE at Normal Rate (A)						2,690.91			
B	Works beyond Original scape exted	ng add-cap due to Change	in Law eligible for RoE at	Wild. Average	rate of Interest					
	Total (H)				1.77			-		
	Cap, Clusted (A+40)				+	-		-		

परिमल पीयूष/PARIMAL PIYUSH अघर महाप्रयन्धक (वाणिजियक) Addl. General Manager (Commercial) एन टी पी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

# (Pettioner)

		Year e	rico Statoranei ol	Additional C	egitalisation a	ther.000					PART-I
	The Petitioner The Generating Station				-	* STATE OF THE PARTY OF THE PAR	NTPC Limits	d			FORM- 9
COD							Hilland Sup-	r Tharmol	Power Statio	n Stage-81	
Por Pina	eycial Year						27-63-2014 1002-23		7.111.7.010.0		
				1000			Later W.			Ans	ort in Ru Lakh
St. No.	Head of Work Allquagement	Party flame	Accrual basis as per Note 2	Inc As As	Accrusi besis us per	Un-discharged Liability included in	Cash basis	IDC Included	Regulations ander which		Admitted Cost by the Commission,
			- and the same	1.28	IGANP	col.3	1200000	in cet 3	claimed		itany
A	Wartes under Original acops, Change in Law etc. eligible for RoE at to	1	4	5	- 6	7	. 8		10	- 11	12
		Ormal Hate									. 14
A.1	Claired Sens										_
A1.1	Works Under original scope in reain plant packages					_					
A.1.fa	Station C&I Package	Schneiber Electric Systems	13.13	- 22	13.13	0.00	13.23				
A.1.tb	Central Repair Feelity (CRF) Building		36.06	18	36.06	35.89	0.17			These works are part of the Original Scope of works and were competed & capitalised before put-off (sale.)	
A.1.10	Temp. Construction & enabling works		4.69	-	4.00	9	4.09		24(10)) & 25(1)))	The current additional capitolization perialize to the release of balance payments on account of occares.	
A1.1st	Switchyard Package	Dheest Heavy Electricals Ltd	7,60	1.5	7.43		7.63			closure activities	
ALIE	Dischical Equipments (Cables, Cable (scalines & dirounding)	KE Industries Cra	6.62		6.62		6.62			Horible Commission may be pleased to allow the seere.	
	Subtotal (A.1.1)		53.14		65,14	35.79	32,34				
A12	Township: Quartets and other facilities		91.61	1	91.01	62.06	58.63		24(1000 A 25(1000	Justification as provided in A.1.2 of form 10.19-20*  Hanhite Commission may be pleased to allow the psychiatration.	
A14	AAN Related works		6.97	13	6.97	1 1	4.97	-	26(1)(0)	Austrication as provided in A.I.So of form '\$ 20.5T.  Hombie Commission may be present to allow the opposituation.	
A1E	Package ERM		61.73	12	61.75	61.73	123	82		The present captisization is reinstancement of labels as due to Foreign Exchange Rate vertation corresponding to the widts aboved by the tills Commission. Harrist Commission may be present to allow the same as prowhen the Sabilities or discharged.	
	Subtotal (A. 1)		*****		4000		-			and the same of the contractor.	
			237.84		227.84	149.60	78,24	-			
AZ	Capitalization of MBGAss	Visious Paties	640.06	232	600.30	97.26	613.00	1 1	25(2)(9)	These Militians were capitalised due to explanament of assets which were deployed under original score. The old aborts outlined their quarks like and were fully depreciated. Horizin Commission may be pleased to allow the capitalisation of these MICOAs as per Heguaters 25 (2) to it Tariff Regulation 2019 as replacement of these MICOAs were recessioned since the useful title of these supply were not accounted with the useful title of the Station.	
A.S	Decap of MBCAs: Part of Capital Cost		-85.71	-1.35	-85.07	1	-95.07	1 %	25(2)	These assets were part of capital cost, have secons amornicastive. Accordingly the same are decapitalised.	
A.4	Decep of Spanie: Part of Capital Geet		-365.49	-284.42	-649.91		-649.91	St	35(2)	These spares were part of sapital cost, have become unserviceable. Accordingly the same are decapitalized.	
	Total claim (A)		426.70	-283.45	545.51	444.42	70.00				
A 17	Add: Discharge of wealty corresponding to allowed covered works		Tan-19	413.48	143.24	156.59	43,64	-		ACTIONS OF THE PARTY OF THE PAR	
1	A STATE OF STREET OF STREET OF STREET, CONTRACT MISSE						T21.53		25(1)(5)	Details given in Form-S. i.e., Liabelly Flow Statement	

Total Additional expiralization cliented with RoE at Nermal Reta (A)				677.48			
Works beyond Original scope excuding add-cap due to Change in Law	v eligible for Rod at Wite. A	verage care of interest					
Total (B) Add. Cap. Claimed (A+B)			-	 -	-		
				977,48	-		

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रधान्धक (वाणिक्यिक) Addi, General Manager (Commercial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

No. of the second	Your wine Statement of Additional Capitalisation ofter COD	PART
Notes of the Petitional Name of the Generaling Station	WPELinded	FORM-
000	Ribard Super Thornal Fower States Stogs 48	
For Fisancial Year	27-35-2014	
715 C C C C C C C C C C C C C C C C C C C	1003-34	and the second s

	Oznacia de la compania del compania de la compania del compania de la compania del la compania de la compania d		_	ACE.	Claired		VII.			An	ound in Hs Lakh
SII. No.		Party Neess	Accrual basis as per Nato 2	1v4 A3 A4).	Assemble basis as per IGAAP	Un-discharged List-lity included in col. 3	Gesili bests	IDC include d in set, 5	Regulations under which claimed	Justination	Admitted Cost by the Convenience, Heavy
Ä.	Works under Original scope, Change in Law etc. eligible )	or BoE of Norwall B	A.	- 5	-	- 7	1	9	10	11	12
-		ST. PASE AR PROCESS FO									12
AL	Classed laws	-									-
A1.1	Warks Under original scope in main plant perhaps:										
-	The second strains accept to easily point partiages			-							
A.1.1a	Switchyard Package		25.87	-	25.87	4.25	21.62		1.0	There were no our of a factor of a contract	
ALI	Road & Drainage		9.14	-	9.14		9.14		24(1)(k) 4 25(1)(k)		
A.1.1c	Tierres construction & exabling works		0.12	-	0.12	- 65	8.12		N/OSO	Hor/ble Commission may be pleased in allow the surse.	
	Subtotal (A.1.1)		38,12	-	36.12	4.25	30.88				-
A.1.2	Township & Colbey		13.18		1816		13.15	1	24(1)(b) A 25(1)(q)	AniModem as provided in A.1.2 of form 10.3519-337. The present explaination is towards below:	
A13	Ash Related Warts.				-					The second state of the second	
A.13a	Dry Ash Estrection System. Stage-8		6.709.21		6,700.21	10.72	6,625,46		26(1)(10	Promise Convenience vide pass 13 of order std. 28.12.2003 in 43.9GTQ820 has ellowed the work of Dry Ash Extension System.  There is violation in social capitalization vis-e-insolitowed as as the reportetions ellowed was believed on estimation while expenditure capitalized in treased on actual avoided value.	100
6139	Jist Rowing of Central Auth Dyke Lagoon it		0.46		0.45	11	1 9.55		110-403	Herbie Commission rain be played to allow the present contactours.  Assertioning as provided in A.1 64 of form \$ 2220-21*	
	Subtotal (A.1.2)						8.45		2817360	Har/ble Commission may be pleased to allow the capitalization.	1
			6,708.68	-	6,710.60	13.72	6,625.93	- 4		The state of the s	
A.1.5	Upgratistics of HMI Passage										-
A1.5	Uipprodution OFHMI System		155.94	3,87	359.81		150.81			The HMB cyclavin installed at the incluré stations were based on Windows 7 for which no support than CEM, is available. Accordingly, in compliance of CEA (Cyber Security in Preer Seylor) Caudelines, 2021 and direction from Gal calet element 25.64.2002 the HMB system was approach for enturing sets and reliable operation of the Station as a space and service suggest was an allable for the obscious HMI system (Charlescence latter for Cliffa ethicked in Assessme-BET).  CEA since the provision of Regulation (16) of the Control Section) Authority (Technical Standards for Consociolity to the CAD) (American) Regulations, 2019 leaved CEA (Cyber Security is Prover Section) Calebraians, 2021 (Meeting) and Calebraians, 2021 (Meeting) and Cyber Security in Prover Section.	RIMAL

परिमल पीयम PARIMAL PIYUSH

परिमल पीयम PARIMAL PIYUSH

arq महाप्या Manager (Commercial)

Addl. General Manager (Commercial)

पन दी पी सी लिनिटेड /NTPC LIMITED

पन दी पी सी लिनिटेड /NTPC LIMITED

TO

TO

						-			
M.A.	64 Gap. Claimed \$4+8)					8,934,70			
	Telef (D)					285.14	-		Harride Commission may be please to alvey the property controllers.
1.6	Safety & Security of Plane:	421.44	50	421.44	114.29	905.14	-	20(1)(2)	Honible Coveression vide pairs 26 of order old. 28 12 2025 in 450407 (8825 her allowed the expenditure towards salety related works.  There is variation in actual copinitation vie-a was allowed as the expenditure saleted was based on retirection white expenditure capitational in hereof on actual expenditure for its respective or procured wider for salety and society of the plant.
									*
	Works beyond Original scope adulating self-cap due to Change in Law o	Eighte for Rot of Wed Aus	Cage rate of	nterest					
	Total additional capitalization claimed with RoE at Romal Rate (A)					6,629.66			
14	Add (the turge of smallly comparating to advised stained relate.	-				845.10		29(1)(5)	Outside gives in Foom-5, i.e., Liability Flow Statement
	Total claim (A)	6,312.00	452.34	A.835.71	145.75	5,968.48	-		
4	Decay of Spanish Peet of Capital Cost	-899.91	-362.96	-922.86	-	422.66	-	20/21	The same of the sa
-		-32.04	-11.02	43.01		-42.91	-	25(2)	Three assets were part of capital cost, have become unservicentile. Accordingly the same see decapitalized.
2	Copinitation of MBQs <sub>A</sub> Delay of MBQAs: Part of Copinit Cost	130.91	0.64	130.90	0.88	130.09			These MSOAs were captained due to applicament of access which were deployed enter original scope. The oil assets entered that seeks life and were fully depreciated. Horitile Commission way be pleased to affect the captaination of these MSOAs are proposed. (i) (ii) of oil Tariff Regulation, 2019 are replacament of three MSOAs are represented above the captaination of the MSOAs are represented above the seeks like at this access were not operated.
		-	1	too Lot	180.63	6.825.14	- :		
	Baltitytei (A.1)	\$293.14	-116.62	6,674.51	-150.63	70000			corresponding to the world allowed by Hellin Commission. Her the Commission her the desired as each established as each whole the subsect of the second seco
	Perhaps CRV	-218.60		-235.00	-238.60	-		25(1)04	The prevent capitalization is successful accorded by believe due to Foreign Exchange Rate variables
	Babbotal (A.1.5)	275.00	416.62	168.18		155.16	. +		man be present to allow cover under Regulations 25(2) (it) of Tail® Regulations, 2018
N.	te Decap on Upgivelation of estat	-82.14	-122.49	204.83	N.	-204.53			If Princing out of legacy systems If Ermaning severity hardwrites the editional controls in committees with the OEM If Attention system logs at least for 6 months dysation.  Further, Ministry of Einsteinion and Information Trainvolving (Matty), they of finds vide its order No- 2000/0022/CERT in Cod dated 28.04.2022 issued Directions under table-action (S) of season 795 If the Information Technology Aut., 2006 (Matched as Answerse-JERD) which later also provides:  "All survice possition, intermediates, date commer, body exponers and Government erganizations shall cranicatedly ematter logs of all their ICT systems and mention that seasons for a colling period at 16th days and the same shad for ministed to ICENT-in along alth reporting of any involved or when ordered if directed by CERT-IP.  In view of alone 18th system has been upgrained. Ein humbly subsidied that the Commission

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

	Calculation of Depreciation	NTPC				00						PART-I FORM-
Name	of the Petitioner	Limited										
Name	of the Generating Station		Yh			123 5 5 5 5 5						
	THE PERSON OF PROPERTY OF THE PERSON OF THE	romanu guper	Thermal Power	Station Stage-I								
SI.No.	Name of the Assets!	Depreciation Rates as per CERC's Depreciation Rate	Gross Block as	Depreciation	Gross Block as		Gross Block as				An	ount in Rs Lai
		Schedule	on 31.03.2019		on 31.03.2020	Depreciation	on 31.03.2021	Depreciation	Gross Block as on 31.03.2022	Depreciation	Gross Block as on 31,03,2023	Depreciation
1	Land-Lesse Hold*			La constant			1 10	1				
2	Plant & Machinery	3.34%	149	4.97	140	4.97	200	-				
.3	Cooling Towers & CW System	5,28%	475311	25096.43	483815	25545.45	100	the second secon	149	4.97	115.60	7700
- 4	Air conditioning	5.28%	22680	1208,09	22880	1208.09	485292	25623.41	491212	25935.98	493401	3.5
- 5	Chimney	5.28%	819	43.23	B19		22850	1208.09	22880		The second second second	26051.6
- 6	Main Plant Building	5.28%	5874	310.13	5874	43.23	819	43.23	819		22880	1208.0
7	Ash DykerDisposal Area	3.34%	8996	300.47	8996	310.13	5874	310.13	5874		819	432
8	S-Yard	5.20%	410	21.67	410	300.47	8995	300.47	8996	300.47	5874	310.1
9	Raw Water Reservoir	5.28%	5685	300.16	5686	21.67	410	21,67	410		8998	300.4
10	MSR & Wagons	5.28%	1540	81.32	1540	300,18	5685	300:18	5685	300.18	410	21.6
31	ocomotive	5.28%	7969	420.78	7959	81.32	1540	81.32	1540	81.32	5685	300.1
12	Residential Building	9.50%	9478	900.45	9478	420.78	8169	431.34	8163	431.02	1540	81.3
13/	NaterTreatment Plant	3,34%	18145	606.05	18217	900,65	9478	900.45	9478	900.45	8163	431.0
14	Spares	5.28%	6052	319.54		608.44	18367	613.45	18493	617.68	94786	900.4
	urriture & Fodures OFFICE	5.28%	13187	896.29	6203	327,51	6225	328.66	6226		18625	622.0
15	QUIPMENT	100000		030.20	13859	731,74	16649	879.09	15357	328.75	6226	328,7
16	Jiher MBOAs / TAPs.	6,33%	1220	77.25	4444	100	50000	-	1400	810.84	16563	874.5
17.4	DP,WP & SATCOM.	6.33%	621	39.29	1328	84.06	1420	89.89	1454	60.00	7-19:20	- SUAY
1877	Construction equipment	15.00%	799	119.90	621	39.29	621	39.29	621	92:06	1476	93.4
10	emp Constructions	5.28%	48	2.54	792	118.87	811	121.70	809	39:30	629	39.8
	Cost Constructions	100.00%	1313	1313.18	48	2.54	48	2.54	48	121.32	1252	187.8
20	Control Promotors	100 (500)	7919	1910.18	1313	1313.18	1313	1313.18	1313	2.54	48	2.5
21/2	entral RepaidWorkshop padiBridge	5,28%	1330	70.21	444				13131	1313.18	1313	1313.14
22.6	oftware	3.34%	6883	229.88	1328	70.12	1326	70.02	1363	-		W-4-75 32 12
23/4	Valer Supply drenage	15.00%	11	1,69	6913	230.90	6915	230.95	6912	71.96	1379	72.7
24 5	Km Scheme	5.28%	133	7.05	- 11	1.69	11	1.69	11	230.86	6912	230.86
25 1	ceptal Equipment	5.28%	0	0.01	133	7.05	133	7.05	133	1.89	12	1.83
2017	enide	5.28%	-	9.01	- 9	0.01	0	0.01	133	7.05	133	7.05
	otal	9.50%			- 1	0.05	79	4.18	100	0.01	0	0.01
			588855.78	32170.58	0	0.00	0	0.00	120	6.32	132	6.97
0	reighted Average Rate of Depreciation		1000	32170.58	598384.59	32672.18	603212.40	32926.96	608068.65	0.00	18	1.74
	sehold land asset amounting to Rs. 1,489 in http://www.considered.this.isashold.land.as.tree.h			5.4632%				-	100000000	33181.08	612084.03	33435.45

\* The lasseshold land asset amounting to Rs. 1.489 Cr. was capitalized in 2015-16 on accordal basis (Nii on cash basis). Subsequently in 2022-23, liability of Rs. 1.156Cr. was discharged. The patitioner in Form-11 for 2014-19 true-up lease-hold land, hence the same may not be considered for depreciation calculation.

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यिक) Addi. General Manager (Commercial) एन टी पी सी लिपिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

	Statemen	t of Depreciation	on .				PART-I				
Name of th	e Company :	NTPC Limited					FORM- 12				
Name of th	e Power Station :	Rihand Super Thermal Power Station Stage-III									
	The state of the s										
S. No.	Particulars	2018-19 2019-20 2020-21 2021-22					nt in Rs Laki				
1	2	3	A	5		2022-23	2023-24				
1	Opening Capital Cost	550580.55	551385.35		6	7	8				
2	Closing Capital Cost	551385.36	552243.39	552243.39	559360.69	562959.20	563636.6				
3	Average Capital Cost	6600gg oc	551814.37	559360.69			570571.3				
1a	Cost of IT Equipments & Software included in (1) above		810.58	555802.04	561159.94	563297.94	567104.0				
2a	Cost of IT Equipments & Software included in (2) shows	-	800.80	800.80	819.72	816.76	1,243.89				
3a	Average Cost of 11 Equipments & Software		805.69	819.72	816.76	1,243.89	#761.23				
4	Freehold land*	148.90	The second secon	810.26	818.24	1,030.33	1,002.58				
5	Rate of depreciation	5.470%	0.00	0.00	0.00	0.00	0.0				
6	Depreciable value	4,95,750.65	5.46%	5.46%	5.46%	5.46%	5.469				
7.	Balance useful life at the beginning of the period	20.31	4,96,713.50	5,00,302.86	5,05,125,77	5,07,071.18	5,10,493.8				
8	Remaining depreciable value	3,63,820.94	19.31	18.31	17.31	16.31	15.3				
9	Depreciation (for the period)	30,138.31	3.35,005.81	3,08,486.95	2,83,407.29	2,54,822.26	2,27,876.25				
10	Depreciation (annualised)	30,138.31	30,146.92	30,347.15	30,631.48	30,738.03	30,978.39				
11	Cumulative depreciation at the end of the period	The second secon	30,146.92	30,347.15	30,631.48	30,738.03	30,978.39				
-20011	Less: Cumulative depreciation adjustment on account	1,62,068.02	1,91,854.62	2,22,163.07	2,52,349.96	2,82,986.95	3,13,596.0				
12	of un-discharged liabilities deducted as on 01.04.2009	0.00	0.00	0.00	0.00	0.00	* 0.0				
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	0.00	0.00	0.00	0.00	0.0				
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	360.32	38.70	444.58	101.05	369.31					
15	Net Cumulative depreciation at the end of the period after adjustments	1,61,707.70	1,91,815.92	2,21,718.48	2,52,248.92	2,82,617.63	3,12,923.21				

<sup>\*</sup> The leasehold land asset amounting to Rs. 1.489 Cr. was capitalized in 2015-16 on accrual basis (Nil on cash basis). Subsequently in 2022-23, liability of Rs. 1.156Cr. was discharged. The petitioner in Form-11 for 2014-19 true-up inadvertently considered this leashold land as free hold land and Hon'ble Commission also considered the same in Form-12 while calculating depreciation in 2014-19 true-up order. The petitioner humbly submits that since the land is lease-hold land, hence the same may not be considered for depreciation calcuation.

(Petitioner)

परिमल पीयूब/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यिक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC. A-8A. Sector-24, Noida-201301 (U.P.)

Name of the Company : Name of the Power Station:

NTPC Ltd Rihand-III

(Amount in Rs. Lakhs)

	Particulars	2019-20	2020-21	2021-22	2022-23	2022.04
- 1	4.75% Fixed Rate Notes due 2022	00.00.20	2000-21	2021-22	2022-23	2023-24
	Gross Drawl opening	29,167	29,167	29,167	29,167	20.44
	Cummulative repayment of drawl till prev yr	-	20,101	20,101	29,107	29,16
	Net Loan opening	29,167	29,167	29,167	29,167	29,16
	Increase decrease due to FERV	-	20,101	20,101	28,107	
	Increase decrease due to ACE		-	-	-	*
	Total	29,167	29,167	29.167	29.167	
	Repayment of loan during the year	10,102	20,107	20,107	29,167	
	Net loan closing	29,167	29,167	29,167	29,107	
	Average net loan	29,167	29,167	29,167	14,583	-
	Rate of interest on loan	5.0243%	5.0243%	5.0243%	5.0243%	0.0000
	Interest on loan	1,465	1,465	1,465	733	0.0000
2	5.625% Fixed Rate Notes due 2021					
	Gross Drawl opening	53,419	53,419	53,419	53,419	
	Cummulative repayment of drawl till prev yr	20,710	50,410	33,413		53,41
	Net Loan opening	53,419	53,419	53,419	53,419	53,41
	ncrease decrease due to FERV	00,410	30,418	99,418		
	increase decrease due to ACE			-		
	Total	53,419	53,419	53,419	-	
1	Repayment of loan during the year	55,715	30,415	53,419	-	
1	Net loan closing	53,419	53,419	00,419	-	-
	Average net loan	53,419	53,419	26,709	-	-
F	Rate of interest on loan	7.1968%	7.1968%	7.1968%	0.000000	-
- 1	nterest on loan	3,844	3,844	1,922	0.0000%	0.00005
3 5	SBI New York			_ 100		
10	Pross Drawl opening	5,101	5,101	E 404	F 101	
- 0	Cummulative repayment of drawl till prev yr	0,101	5,101	5,101	5,101	5,101
I.	let Loan opening	5,101	3,101		5,101	5,101
Ir	crease decrease due to FERV	0,101				
le	crease decrease due to ACE	-	-	-		-
	otal	5,101	-	-	-	
R	epayment of loan during the year	5,101		-	-	-
N	let loan closing	0,101				
	verage net loan	2,551			-	
R	ate of interest on loan	3.8619%	0.0000%	0.0000%	0.000000	
lin	terest on loan	99	0.000096	0.0000%	0.0000%	0.0000%
4 B	onds XLII Series					
G	ross Drawl opening	800	800	800	500	
	ummulative repayment of drawl till prev yr	000	800	800	800	800
N	et Loan opening	800	800	800	*	160
	crease decrease due to FERV	-	500		800	640
	crease decrease due to ACE			-	-	
	otal	800	800	900	-	*
	spayment of loan during the year	-	000	800	800	640
	et loan closing	800	800	900	160	160
	verage net loan	800	800	800	640	480
	ate of interest on loan	9.0300%		800	720	560
	erest on loan		The second second second	9.0300%	9.0300%	9.0300%
-		72	72	72	65	51

यरिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (धाणिजियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201501 (U.P.)

5 Bonds XLIV Series		1000000	100000	2000	- 10000
Gross Drawl opening	2,500	2,500	2,500	2,500	2,50
Cummulative repayment of drawl till prev yr		92			
Net Loan opening	2,500	2,500	2,500	2,500	2,5
Increase decrease due to FERV		-		-	- 4
Increase decrease due to ACE	- 2	27	-22	- 7	
Total	2,500	2,500	2,500	2,500	2,50
Repayment of loan during the year	-	+		-	50
Net loan closing	2,500	2,500	2,500	2,500	2,00
Average net loan	2,500	2,500	2,500	2,500	2,2
Rate of interest on loan	9.2800%	9.2800%	9.2800%	9.2800%	9.280
Interest on loan	232	232	232	232	2
6 Bonds XLVII Series			-		_
Gross Drawl opening	3,500	3,500	3,500	3,500	3,50
Cummulative repayment of drawl till prev yr		7.0			3,50
Net Loan opening	3,500	3,500	3,500	3,500	-
Increase decrease due to FERV				-	4 4
Increase decrease due to ACE	-	-			- 04
Total	3,500	3,500	3,500	3,500	
Repayment of loan during the year	-	+		3,500	- 2
Net loan closing	3,500	3,500	3,500	200	
Average net loan	3,500	3,500	3,500	1,750	1,2
Rate of interest on loan	8.8700%	8.8700%	8.8700%	8.8700%	0.000
Interest on loan	310	310	310	155	
Bonds XXXVIII Series			-1		
Gross Drawl opening	600	600	600	600	60
Cummulative repayment of drawl till prev yr	129	171	214	257	30
Net Loan opening	471	429	386	343	30
Increase decrease due to FERV		-	-		
Increase decrease due to ACE	-			-	- 12
Total	471	429	386	343	30
Repayment of loan during the year	43	43	43	43	- 1
Net loan closing	429	386	343	300	25
Average net loan	450	407	364	321	27
Rate of interest on loan	9.2000%	9.2000%	9.2000%	9.2000%	9.2000
Interest on loan	41	37	34	30	
Bonds XLIX Series					_
Gross Drawl opening	5,000	5,000	5.000	5,000	5,00
Cummulative repayment of drawl till prev yr	0,000	0,000	0,000	0,000	5,00
Net Loan opening	5,000	5,000	5,000	5,000	5,00
Increase decrease due to FERV	-	-	-	3,000	0,00
Increase decrease due to ACE		-		-	
Total	5,000	5,000	5,000	5,000	5,00
Repayment of loan during the year		5,000	2,000	0,000	5,00
Net loan closing	5,000	5,000	5,000	5,000	0,01
Average net loan	5,000	5,000	5,000	5,000	2,50
Rate of interest on loan	8.8300%	8.8300%	8.8300%	8.8300%	8.8300
Telephone (a) Participation (Control Control C					
Interest on loan	442	442	442	442	2



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (पाणिज्यिक) Add. General Manager (Commercial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noide-201301 (U.P.)

9 Bonds L1A Series					
Gross Drawl opening	1,645	1,645	1,645	1,645	1,6
Cummulative repayment of drawl till prev yr	1,100	1,545	1,010	1,040	(,0
Net Loan opening	1,645	1,645	1,645	1,645	1,6
Increase decrease due to FERV		1,010	1,040	1,043	1,0
Increase decrease due to ACE			-	-	
Total	1.645	1,645	1,845	1,645	1,6
Repayment of loan during the year	1,0.0	1,040	1,040	1,045	1,6
Net loan closing	1,645	1,645	1,645	1,645	1,0
Average net loan	1,645	1,645	1,645	1,645	8
Rate of interest on loan	8.4400%	8.4400%	8.4400%	8.4400%	8.440
Interest on loan	139	139	139	139	0.440
0 Bonds L2A Series					
Gross Drawl opening	843	843	843	843	
Cummulative repayment of drawl till prev yr	- 045	043	043	543	84
Net Loan opening	843	843		7.40	
Increase decrease due to FERV	043	043	843	843	84
Increase decrease due to ACE					
Total	843	843	843	843	
Repayment of loan during the year	043	043	043	843	84
Net loan closing	843	843	843	040	-
Average net loan	843	843	843	843	84
Rate of interest on loan	8.5100%	8.5100%	8.5100%	843 8.5100%	84
Interest on loan	72	72	72	72	8,5100
Common transfer and the second second	7.5	- 12	/4	- 12	- 000
Bonds L3A Series					
Gross Drawl opening	1,052	1,052	1,052	1,052	1,05
Cummulative repayment of drawl till prev yr	-	1,000	1,002	1,002	1,00
Net Loan opening	1,052	1,052	1,052	1,052	1,05
Increase decrease due to FERV	1,000	1,002	1,002	1,002	1,00
Increase decrease due to ACE	-				-
Total	1,052	1,052	1.052	1,052	1,05
Repayment of loan during the year	1,000	1,002	1,002	1,032	- reduce
Net loan closing	1,052	1,052	1,052	1.052	1,05
Average net loan	1,052	1,052	1,052	1,052	1.05
Rate of interest on loan	8.6900%	8.6900%	8.6900%	8.6900%	8.6900
Interest on loan	91	91	91	91	0.0500
Bonds L1B Series					
Gross Drawl opening	703	703	703	703	70
Cummulative repayment of drawl till prev yr		- 100	-	700	
Net Loan opening	703	703	703	703	70
Increase decrease due to FERV	100	700	100	703	70
Increase decrease due to ACE	7.	-			
Total	703	703	703	703	70
Repayment of loan during the year	- 100	100	703	703	
Net loan closing	703	703	703	703	70
Average net loan	703	703	703	The state of the s	25
	the second secon	8.6900%	8.6900%	703 8.6900%	8.6900
Rate of interest on loan	8.6900%	S SDOWN.	D DOUGLE	R COOON I	

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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिडियक) Addl. General Manager (Commercial) एन टी पी ती लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

13 Bonds L2B Series	200				
Gross Drawl opening	308	308	308	308	
Cummulative repayment of drawl till prev yr			-	-	
Net Loan opening	308	308	308	308	S
Increase decrease due to FERV				-	
Increase decrease due to ACE		- + :- ·	- 1		
Total	308	308	308	308	
Repayment of loan during the year		*	-		
Net loan closing	308	308	308	308	- 1
Average net loan	308	308	308	308	
Rate of interest on loan	8.7600%	8.7600%	8.7600%	8.7600%	8.76
Interest on loan	27	27	27	27	-70.3
140-11000					
14 Bonds L3B Series			77.00		
Gross Drawl opening	1,348	1,348	1,348	1,348	- 1,
Cummulative repayment of drawl till prev yr	3	1.6		+	
Net Loan opening	1,348	1,348	1,348	1,348	1,
Increase decrease due to FERV			-	1.5	
Increase decrease due to ACE			-23		
Total	1,348	1,348	1,348	1,348	1.
Repayment of loan during the year	-		-	-	-
Net loan closing	1,348	1,348	1,348	1,348	1.
Average net loan	1,348	1,348	1,348	1,348	1,
Rate of interest on loan	8.9400%	8.9400%	8.9400%	8.9400%	8.94
Interest on loan	121	121	121	121	0.04
				- 1	
5 Bonds LIA Series					
Gross Drawl opening	400	400	400	400	
Cummulative repayment of drawl till prev yr		-		400	
Net Loan opening	400	400	400	400	-
Increase decrease due to FERV	- 2	-	-	400	
Increase decrease due to ACE		-	-		
Total	400	400	400	400	
Repayment of loan during the year	- 400	400	400		
Net loan closing	400	400	400	400	-
Average net loan	400	400	400	400	
Rate of interest on loan	8.2200%	8.2200%	400	400	
Interest on loan	33	33	8.2200%	8.2200%	8.220
				33	
6 Bonds 54 Series				7000000	
Gross Drawl opening	28,300	28,300	28,300	28,300	28,3
Cummulative repayment of drawl till prev yr	-	4.	199	2.4	5,6
Net Loan opening	28,300	28,300	28,300	28.300	22,6
Increase decrease due to FERV			-		
Increase decrease due to ACE	- S+7.0	4.5	2 1	2	
Total	28,300	28,300	28,300	28,300	22,6
Repayment of loan during the year	-	-	-	5,660	11,3
Net loan closing	28,300	28,300	28,300	22,640	11,3
Average net loan	28,300	28,300	28,300	25,470	16,9
Rate of interest on loan	8.5200%	8.5200%	8.5200%	8.5200%	8.520
Interest on loan	2411	2411	2411	2170	14
Death 57 Octo					
Bonds 57 Series		4		53 - T- 1 C	
Gross Drawl opening	800	800	800	800	8
Cummulative repayment of drawl till prev yr		-		-	-
Net Loan opening	800	800	800	800	- 81
Increase decrease due to FERV	24			-	
Increase decrease due to ACE		1.5mm			-:-
Total	800	800	800	800	80
Repayment of loan during the year	2.5		-	-	
Net loan closing	800	800	800	800	80
		800	800	800	80
Average net loan	800	000			
Average net loan Rate of interest on loan Interest on loan	8.2200%	The second secon	8,2200%	8.2200%	8.2200



18	Bonds 59 Series					
	Gross Drawl opening	1,700	1 700	4.700	1.700	
	Cummulative repayment of drawl till prev yr	1,700	1,700	The second secon	1,700	1,
	Net Loan opening	1,700		1,700	1,700	1,
	Increase decrease due to FERV	1,700	1,700			-
	Increase decrease due to ACE	-	-			- 25
	Total	1,700	4 700	-	-	
	Repayment of loan during the year	1,700	1,700	-		
	Net loan closing	1,700	1,700	-	-	
	Average net loan	1,700	850	-	-	
	Rate of interest on loan	8.3600%	8.3600%	0.000000	0.000000	
	Interest on loan	142	71	21,22,2,2,2,12	0.0000%	0.00
19	Bonds 66 Series					
_	Gross Drawl opening	3,200	2 200	0.000		
	Cummulative repayment of drawl till prev yr	3,200	3,200	3,200	3,200	3,
	Net Loan opening	3,200	2.200	2 222	0.000	
	Increase decrease due to FERV		3,200	3,200	3,200	3,
	Increase decrease due to ACE		-	-	-	
	Total	3,200	2.200	2.200		
	Repayment of loan during the year	3,200	3,200	3,200	3,200	3,
	Net loan closing	3,200	3,200	0.000	-	
	Average net loan	3,200		3,200	3,200	3,
	Rate of interest on loan	7.4000%	3,200	3,200	3,200	3,
-	Interest on loan	237	7.4000%	7.4000%	7.4000%	7.400
		237	23/	237	237	
	Bonds 67 Series					_
	Gross Drawl opening	4,270	4,270	4,270	4.270	4.2
	Cummulative repayment of drawl till prev yr	9	(#)		-	-
	Net Loan opening	4,270	4,270	4,270	4,270	4.2
	ncrease decrease due to FERV		-	-		
	ncrease decrease due to ACE	£3. V				
_	Total	4,270	4,270	4,270	4,270	4.2
-	Repayment of loan during the year				-	
	Vet loan closing	4,270	4,270	4,270	4,270	4,2
	Average net loan	4,270	4,270	4.270	4,270	4,2
_	Rate of interest on loan	8.4200%	8.4200%	8.4200%	8.4200%	8.420
111	nterest on loan	360	360	360	360	
1 0	lands 72 Sovies (ufe y 522					
	Sonds 72 Series (pfc-v D33 refinanced) Bross Drawl opening				totolki.	5.65
				1,863	1,663	1,6
	cummulative repayment of drawl till prev yr let Loan opening	-	-	(4)	-	-
	crease decrease due to FERV	-		1,663	1,663	1,66
	crease decrease due to ACE			-		
_	otal		1,663	-	+	-
_	CONTRACTOR OF THE PROPERTY OF	-	1,663	1,663	1,663	1,66
P.	epayment of loan during the year	-			-	-
	et loan closing		1,663	1,663	1,663	1,66
	verage net loan	-	831	1,663	1,663	1,66
	ate of interest on loan	0.0000%	6.67%	6.6700%	6.6700%	6.6700
1111	terest on loan	0	55	111	111	1



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रथन्शक (वार्षिक्कि) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

22 Bonds 72 Series (pfc-v D34 refinanced)					
Gross Drawl opening			4,200	4,200	4,
Cummulative repayment of drawl till prev yr		-	-	*	
Net Loan opening	23	- 40	4,200	4,200	4,
Increase decrease due to FERV			1,200	4,200	77,0
Increase decrease due to ACE		4,200	-	. *	_
Total	-	4,200	4,200	4.200	4,3
Repayment of loan during the year	-	1,200	4,200	4,200	4,
Net loan closing	-	4,200	4,200	4,200	4.3
Average net loan		2,100	4,200	4,200	100.50
Rate of interest on loan	0.0000%	6.8400%	6.8400%	6.8400%	4,3
Interest on loan	0	144	287	287	6.840
3 Bonds 72 Series (pfc-v D36 refinanced)					
Gross Drawl opening			4 700.0		
Cummulative repayment of drawl till prev yr	-		1,750	1,750	1,7
Net Loan opening	-		*	-	
Increase decrease due to FERV	-	*	1,750	1,750	1,7
Increase decrease due to ACE		-	0.00	4	- 1
Total		1,750			
1.000		1,750	1,750	1,750	1,7
Repayment of loan during the year Net loan closing	- 4		7		0.03
	-	1,750	1,750	1,750	1,7
Average net loan		875	1,750	1,750	1,7
Rate of interest on loan	0.0000%	6.9050%	6.9050%	6.9050%	6.905
Interest on loan	0	60	121	121	
Bonds 72 Series (pfc-v D38 refinanced)					
Gross Drawl opening			6,125	6,125	6,1
Cummulative repayment of drawl till prev yr			-	0,125	0,1
Net Loan opening			6,125	6,125	6,1
Increase decrease due to FERV	-		0,120	0,720	0,1
Increase decrease due to ACE		6,125			
Total	27	6.125	6,125	8 126	0.4
Repayment of loan during the year		0,125	0,123	6,125	6,1
Net loan closing		6,125	6,125		
Average net loan	-	3,063	6,125	6,125	6,1
Rate of interest on loan	0.0000%	6.8700%		6,125	6,1
Interest on loan	0.0000 /s	210	6.8700%	6.8700%	6.870
		210	421	421	- 4
Bonds 72 Series (OTHERS) Gross Drawl opening					
		-	17,663	17,663	17,68
Cummulative repayment of drawl till prev yr		40			
Net Loan opening			17,663	17,663	17,66
Increase decrease due to FERV			32	7.4	-
Increase decrease due to ACE	1.4	17,663	* 1		
Total		17,663	17,663	17,663	17,66
Repayment of loan during the year		-	3	-	27,000
Net loan closing		17,663	17,663	17,663	17,66
Average net loan	10000	8,831	17,663	17,863	17,68
Rate of interest on loan	0.0000%	5.4800%	5.4800%	5.4800%	5.4800
Interest on loan	0	484	.968	968	9.4600
		-	-	-	- 0



परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रधन्दक (वाकिवियक) Addl. General Manager (Commercial) एक ही भी भी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

26	Corporation Bank-III- D4					
	Gross Drawl opening	5,000	5,000	5,000	5.000	5.0
	Cummulative repayment of drawl till prev yr	750	1,000	1,500	2,000	2,5
	Net Loan opening	4,250	4,000	3,500	3,000	2,5
	Increase decrease due to FERV	-		-	-	
$\neg$	Increase decrease due to ACE			-		
$\neg$	Total	4,250	4,000	3,500	3,000	2,5
	Repayment of loan during the year	250	500	500	500	5
	Net loan closing	4,000	3,500	3,000	2,500	2.0
	Average net loan	4,125	3,750	3,250	2,750	2,2
	Rate of interest on loan	8.0276%	6.7032%	6.0000%	7.2975%	7.944
4	Interest on loan	331	251	195	201	1
27	Corporation Bank-III-D6					
	Gross Drawl opening	5,000	5,000	5,000	5,000	5,0
	Cummulative repayment of drawl till prev yr	750	1,000	1,500	2,000	2,5
	Net Loan opening	4,250	4,000	3,500	3,000	2,5
	Increase decrease due to FERV	1,200	4,000	0,000	0,000	2,0
	Increase decrease due to ACE		- 2	27		
_	Total	4,250	4,000	3.500	3,000	2,5
_	Repayment of loan during the year	250	500	500	500	2,0
	Net loan closing	4,000	3,500	3,000	2,500	2,0
	Average net loan	4,125	3,750	3,250	2,750	2,2
_	Rate of interest on loan	8.0276%	6.7032%	6.0000%	7.2975%	7.944
_	Interest on Ioan	331	251	195	201	1.044
	HDFC Bank Limited- II- D3 Gross Drawl opening	2,000	2,000	2,000	2,000	2,0
	Cummulative repayment of drawl till prev yr	1,429	1,714	2,000	2,000	2,0
	Net Loan opening	571	286		-	2,0
	ncrease decrease due to FERV		+			-
	ncrease decrease due to ACE		- 1			
	Total .	571	286	-		
F	Repayment of loan during the year	286	286			
	Net loan closing	286				
	Average net loan	429	143	-	-	-
	Rate of interest on loan	8.0594%	6.3982%	0.0000%	0.0000%	0.000
	nterest on loan	35	9	-	-	- 0.000
19 H	IDFC Bank Limited- II- D6					
	Gross Drawl opening	3,000	3,000	3,000	3,000	3.00
	Cummulative repayment of drawl till prev yr	2,143	2,571	3,000	3,000	3,0
	let Loan opening	857	429		-	.,0
	ncrease decrease due to FERV	87	-	7.47		-
	ncrease decrease due to ACE			240		- 1
	otal	857	429	-	- 2	
F	Repayment of loan during the year	429	429	- 1	0.455	
	let loan closing	429	-	20	-	- 12
	werage net loan	643	214	-		-
	Rate of interest on loan	8.0594%	6.3982%	0.0000%	0.0000%	0.0000
F	vale of interest of four	0.0089701	G: 2002 W	LA LAUGUE SET	34.345 H.F.W.	



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रकृष्टक (दर्गान विद्यार) Addi. General Manager (Commencial) एन ही पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

30 HUDCO LTD-I (Prepage with HDFC IX) Gross Drawl opening			- Tomas		
Currentlative seems and of	4,500	4,50	0 4,500	4,500	4,5
Cummulative repayment of drawl till prev yr Net Loan opening	2,045	2,45		4,500	4.5
Increase decrease due to FERV	2,455	2,04		4,000	7.0
Increase decrease due to FERV		-		-	
Total	- 1				
2.2.1011	2,455	2,04	5 -		
Repayment of loan during the year Net loan closing	409	2,04	5 -		
Average net loan	2,045		2		
Rate of interest on loan	2,250	1,02	3 -		
Interest on loan	8.0131%	7.3986	% 0.0000%	0.0000%	0.000
Interest diritali	180	70		0.00007	0.000
31 Indian Bank-II- D1					
Gross Drawl opening			No.		
Cummulative repayment of drawl till prev yr	1,000	1,000	1,000	1,000	1.0
Net Loan opening	929	1,000	1,000	1,000	1,0
Increase decrease due to FERV	71	- 0	0	0	1,0
Increase decrease due to ACE		1. 1			-
Total	-				- 1
Repayment of loan during the year	71		0	0	
Net loan closing	71	-	-	-	
Average net loan	0	0	0	0	
Rate of interest on loan	36	0		0	
Interest on loan	8.2500%	0.0000%	0.0000%	0.0000%	0.0000
2 Indian Bank-II- D2					
Gross Drawl opening	500	500	-	The Part of the	
Cummulative repayment of drawl till prev yr	464	500	500	500	50
Net Loan opening	36	300	500	500	50
Increase decrease due to FERV	-			-	
Increase decrease due to ACE					- 59
Total	36	-	-		
Repayment of loan during the year	36		-	-	
Net loan closing		-			
Average net loan	18	-			
Rate of interest on loan	8.2500%	0.000000	0.000000		
Interest on loan	1	0.0000%	0.0000%	0.0000%	0.00009
Indian Bank-II- D3					-
Gross Drawl opening	2 200				
Cummulative repayment of drawl till prev yr	2,000	2,000	2,000	2,000	2,000
Net Loan opening	1,857	2,000	2,000	2,000	2,000
Increase decrease due to FERV	143	-			- 1
Increase decrease due to ACE			9		
Total	440			-	
Repayment of loan during the year	143				
Net loan closing	143	-			
Average net loan	-	-			-
Rate of interest on loan	71	-		-	
and det on soul	8.2500%	0.0000%	0.0000%	0.0000%	-
Interest on loan	6		4.0000.70	0.0000000	0.0000%



परिमल पीयुष/PARIMAL PIYUSH Street Historian (In Interest) Addl. General Minimuser (Guine recul) एन हो भी सी स्थिपारेड NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

34	Power Finance Corporation Ltd-V- D8					
	Gross Drawl opening	5,000	5.000	5,000	5,000	10.0
	Cummulative repayment of drawl till prev yr	2.396	5,000	5,000	5,000	5,0
	Net Loan opening	2,604	0,000	5,000		5,0
	Increase decrease due to FERV	2,001	-		-	
	Increase decrease due to ACE		- 20		-	
	Total	2,604		-	-	
	Repayment of loan during the year	2,604	-			
	Net loan closing	2,001	427			-
	Average net loan	1,302			-	
	Rate of interest on loan	9.3900%	9.3900%	9.3900%	0.000000	
-	Interest on loan	122	*	9.350079	9.3900%	9.390
35	Power Finance Corporation Ltd-V- D10			-		
-	Gross Drawl opening	0.000				
	Cummulative repayment of drawl till prev yr	2,000	2,000	2,000	2,000	2,00
-	Net Loan opening	958	2,000	2,000	2,000	2,00
-1	Increase decrease due to FERV	1,042	-	-	-	-
-1	Increase decrease due to ACE	13	19	+		
	Total	-	-			
	Repayment of loan during the year	1,042				9.4
-1	Net loan closing	1,042	0.0	-	-	-
	Average net loan	-		-		
1	Rate of interest on loan	521	-	- ž/	80	
	nterest on loan	9.3300%	9.3300%	9.3300%	9.3300%	9.3300
+	merest on idali	49	-	-		-
36 F	ower Finance Corporation Ltd-V- D12					
(	Bross Drawl opening	3.500	3,500	3,500	2.500	0.00
(	Cummulative repayment of drawl till prev yr	1,677	3,500	3,500	3,500	3,50
N	let Loan opening	1,823	3,300	3,500	3,500	3,50
	ncrease decrease due to FERV	1,020	-	-		
Ir	crease decrease due to ACE		-			
T	otal	1,823	-		9491 15	
R	Repayment of loan during the year	1,823	-	-	-	
N	let loan closing	1,023	-	-	-	
A	verage net loan	911		-		
	ate of interest on loan	8.6700%	8.6700%	9.070000		
	iterest on loan	79	0.0700%	8.6700%	8.6700%	8.6700
7 0	Carrier Cines - C					-
G	ower Finance Corporation Ltd-V- D19 ross Drawl opening					
		5,000	5,000	5,000	5,000	5,000
N	ummulative repayment of drawl till prev yr et Loan opening	2,396	5,000	5,000	5,000	5,000
		2,604	*	-		-
	crease decrease due to FERV		-	92	-	
	crease decrease due to ACE	-	-	-		
_	otal	2,604			-	100
Re	epayment of loan during the year	2,604	8:00		-	20
	et loan closing		- 1			
_	verage net loan	1,302	-	-		
RE	ate of interest on loan	8.3500%	8.3500%	8.3500%	8.3500%	8.3500%
	terest on loan				2.0000.70	0.33007



परिमल रीमूब/PARIMAL PIYUSH
अपुर महापूर्व-स्था (\* किर्मुक)
Addl. General Meneroli (Commonal)
एन दो दी सी लिविटेड / NTPC LIMITED
EOC, A-8A. Sector-24, Noida-201301 (U.P.)

38 Power Finance Corporation Ltd-V- D20					
Gross Drawl opening	1,000	1,000	1,000	1,000	1,0
Cummulative repayment of drawl till prev yr	479	1,000	1,000	1,000	1,0
Net Loan opening	521	+	7,000	1,000	1,0
Increase decrease due to FERV		-			
Increase decrease due to ACE			-	- 4	
Total	521	100			
Repayment of loan during the year	521	- 1			-
Net loan closing	-	-	-	-	-
Average net loan	260				
Rate of interest on loan	8.4000%	8.4000%	8.4000%	8.4000%	8.400
Interest on loan	22	- 2	0.100013	-	0.400
9 Power Finance Corporation Ltd-V- D22	+ +				
Gross Drawl opening	3,500	3,500	3,500	2.500	7.5
Cummulative repayment of drawf till prev yr	1,677	3,500	3,500	3,500	3,5
Net Loan opening	1,823	3,300	3,500	3,500	3,5
Increase decrease due to FERV	1,025	74		-	-
Increase decrease due to ACE			100	-	1.0
Total	1.823	- :			-
Repayment of loan during the year	1,823				-
Net loan closing	1,020	-		-	-
Average net loan	911	-			
Rate of interest on loan	7.6200%	7.6200%	7.6200%	7.000004	7.000
Interest on loan	69	7.020070	7.0200%	7.6200%	7.6200
Power Finance Corporation Ltd-V- D23					
Gross Drawl opening	5,000	5,000	5,000	5.000	5,00
Cummulative repayment of drawl till prev yr	2,396	5,000	5,000	5,000	5,00
Net Loan opening	2,604	-	+ 11	4	0,00
Increase decrease due to FERV		-			
Increase decrease due to ACE					- 2
Total	2,604	-		-	
Repayment of loan during the year	2,604		- 1		-
Net loan closing		-	34	-	
Average net loan	1,302			-	
Rate of interest on loan	7.4300%	7.4300%	7.4300%	7.4300%	7.4300
Interest on loan	97	-	7.5	4	*
Power Finance Corporation Ltd-V- D33					
Gross Drawl opening	3,800	3,800	3,800	3,800	3,80
Cummulative repayment of drawl till prev yr	1,821	2,138	3,800	3,800	3,80
Net Loan opening	1,979	1,663		0,000	3,00
Increase decrease due to FERV	-	1720	-	-	
Increase decrease due to ACE	- 1			-	
Total	1,979	1,663	-		-
Repayment of loan during the year	317	1,663			
Net loan closing	1,663	3,000			
Average net loan	1,821	831			-
The state of the s	7.8300%	7.8300%	7.8300%	7.8300%	7.83009
Rate of interest on loan	7 BC0 BT96-1				



परिमल पीयुष/PARIMAL PIYUSH
अवर महाप्रव-धाक (र किस्टिका)
Addi General Manager (Co housefull)
एन हो भी हो सिन्देड/NTPC LIMITED
EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

42 Power Finance Corporation Ltd-V- D34					
Gross Drawl opening	9,600	9,600	9.600	9,600	9,
Cummulative repayment of drawl till prev yr	4,600	5,400	9,600	9,600	9,
Net Loan opening	5,000	4,200			- 9,
Increase decrease due to FERV		-			
Increase decrease due to ACE	-		-		_
Total	5.000	4,200	-	-	_
Repayment of loan during the year	800	4.200		-	-
Net loan closing	4,200		- 1		
Average net loan	4,800	2,100	-		_
Rate of interest on loan	8.1700%	8.1700%	8.1700%	8.1700%	0.470
Interest on loan	376	172	4	.0.170076	8.170
43 Power Finance Corporation Ltd-V- D36					
Gross Drawi opening					
Cummulative repayment of drawl till prev yr	4,000	4,000	4,000	4,000	4.0
Net Loan opening	1,917	2,250	4,000	4,000	4.0
	2,083	1,750			
Increase decrease due to FERV			-	- 1	
Increase decrease due to ACE		-	-	2	
2.7111	2,083	1,750	-	- 1	
Repayment of loan during the year	333	1,750			
Net loan closing	1,750		- 8		
Average net loan	1,917	875			
Rate of interest on loan	8.3000%	8.3000%	8.3000%	8.3000%	8.300
Interest on loan	159	73			0.000
4 Power Finance Corporation Ltd-V- D38					
Gross Drawl opening	14,000	14,000	44.000		- Chicago
Cummulative repayment of drawl till prev yr	6.708	7,875	14,000	14,000	14,0
Net Loan opening	7,292		14,000	14,000	14,0
Increase decrease due to FERV	7,202	6,125	-		
Increase decrease due to ACE		-	-		-
Total	7,292	0.400	-	+	
Repayment of loan during the year		6,125			100
Net loan closing	1,167	6,125			
Average net loan	6,125		*		
Rate of interest on loan	6,708	3,063	-		-
Interest on loan	8.2300%	8.2300%	8.2300%	8.2300%	8.2300
	552	252	-	-	-
State Bank of India- VII- D1			_		
Gross Drawl opening	9,500	9,500	9,500	9,500	0.50
Cummulative repayment of drawl till prev yr	4,750	5,344	6,531	7,719	9,50
Net Loan opening	4,750	4,156	2,969	1,781	8,90
Increase decrease due to FERV			2,300		59
Increase decrease due to ACE			-		-
Total	4,750	4,156	2,969	1 704	*
Repayment of loan during the year	594	1,188	1,188	1,781	59
Net loan closing	4,156	2,969		1,188	59
Average net loan	4,453	3,563	1,781	594	+
Rate of interest on loan	7.9342%		2,375	1,188	29
Interest on loan	353		6.6500%	7.2108%	8.0522
	222	244	158	86	2



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयुक्ताक (द किएक) Addl. Gene il Manager (Carrier) एन दी भी सा श्रिमिटेड/NTPC LEATED EOC, A-8A Sector-24 Noide 201301 (U.P.)

46 State Bank of India- VII- D2					
Gross Drawl opening	6,000	6,000	6,000	6,000	6.00
Cummulative repayment of drawl till prev yr	3,000	3,375		4,875	6,00
Net Loan opening	3,000	2,625		The second secon	5,62
Increase decrease due to FERV	3,000		1,0/5	1,125	37
Increase decrease due to ACE	-		-	-	-
Total	2 000	0.005	4 575		-
1.7000	3,000	2,625		1,125	37
Repayment of loan during the year	375	750		750	37
Net loan closing	2,625	1,875		375	
Average net loan	2,813	2,250		750	18
Rate of interest on loan	7.9342%	6.8560%	6.6500%	7.2108%	8.0522
Interest on loan	223	154	100	54	15
47 State Bank of India- VII- D3	+ +			_	
Gross Drawl opening	500	500	500	500	50/
Cummulative repayment of drawl till prev yr	250	281		THE PERSON NAMED IN	500
Net Loan opening			344	406	469
	250	219	156	94	31
Increase decrease due to FERV		0.73	90		-
Increase decrease due to ACE	-		*		
Total	250	219	156	94	31
Repayment of loan during the year	31	63	63	63	31
Net loan closing	219	156	94	31	
Average net loan	234	188	125	63	16
Rate of interest on loan	7.9342%	6.8560%		7.2108%	8.05229
Interest on loan	19	13	8	5	
Or and the second second second	10	13	0	9	1
48 State Bank of India- VII- D4					
Gross Drawl opening	4,000	4,000	4,000	4,000	4,000
Cummulative repayment of drawl till prev yr	2,000	2,250	2,750	3,250	3,750
Net Loan opening	2,000	1,750	1,250	The state of the s	
Increase decrease due to FERV	2,000		_	750	250
Increase decrease due to ACE	-	-	-		
Total	2 222		-		
3,000	2,000	1,750	1,250	750	250
Repayment of loan during the year	250	500	500	500	250
Net loan closing	1,750	1,250	750	250	9
Average net loan	1,875	1,500	1,000	500	125
Rate of interest on loan	7.9342%	6.8560%	6.6500%	7.2108%	8.0522%
Interest on loan	149	103	67	36	10
49 State Bank of India- VII- D5					
Gross Drawl opening	8,500	8,500	8,500	8,500	8,500
Cummulative repayment of drawl till prev yr	4,250	4,781	5,844	6,906	
Net Loan opening	4,250	3,719		The state of the s	7,969
Increase decrease due to FERV		1,000,000	2,656	1,594	531
Increase decrease due to ACE	-				-
Total	-		200	-	-
	4,250	3,719	2,656	1,594	531
Repayment of loan during the year	531	1,063	1,063	1,063	531
Net loan closing	3,719	2,656	1,594	531	-
Average net loan	3,984	3,188	2,125	1,063	266
Rate of interest on loan	7.9342%	6.8560%	6.6500%	7.2108%	8.0522%
Interest on loan	316	219	141	77	21
50 State Bank of India- VII- D6					
Gross Drawl opening	2,000	2.000	2.000	0.000	A
Cummulative repayment of drawl till prev yr		2,000	2,000	2,000	2,000
Net Loan opening	1,000	1,125	1,375	1,625	1,875
	1,000	875	625	375	125
Increase decrease due to FERV		(40)			
Increase decrease due to ACE			-		*
Total	1,000	875	625	375	125
Repayment of loan during the year	125	250	250	250	125
Net loan closing	875	625	375	125	100
Average net loan	938	750	500	250	63
Rate of interest on loan	7.9342%	CONTRACTOR OF			
Interest on loan	74	0.000076	- Address	(autoriday)	8.0522% SH 5
- remediation round	/4	54.4	eneral Manag	Carrie al	SH

Addi. General Manager (Commercial) ਰਾ ਦੀ ਦੀ ਦੀ ਜਿਸਦੇਡ/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

51	State Bank of India- VII- D7					
-	Gross Drawl opening	4,500	4.500	4,500	4,500	4.6
	Cummulative repayment of drawl till prev yr	2,250	2,531	3,094	3.656	4,5
	Net Loan opening	2,250	1,969	1,406		4,2
	Increase decrease due to FERV	2,200	1,908	1,400	844	2
_	Increase decrease due to ACE		-	-	-	-
	Total	2,250	1,969	1,406	944	-
	Repayment of loan during the year	281	563	563	844	2
	Net loan closing	1,969	1,406	844	563	- 2
	Average net loan	2,109	1,688	1,125	281 563	
	Rate of interest on loan	7.9342%	6.8560%	6.6500%	7.2108%	1-
	Interest on loan	167	116	75	41	8.052
52	State Bank of India- VII- D8					
	Gross Drawl opening	3,200	3,200	3,200	2.700	2.0
	Cummulative repayment of drawl till prev yr	1,600		The second secon	3,200	3,2
	Net Loan opening		1,800	2,200	2,600	3,0
	Increase decrease due to FERV	1,600	1,400	1,000	600	2
	Increase decrease due to ACE	- 6		-	-	
	Total	4.000	4 400	4 222		
	Repayment of loan during the year	1,600	1,400	1,000	600	2
	Net loan closing	200	400	400	400	2
	Average net loan	1,400	1,000	600	200	-
	Rate of interest on loan	7.9342%	1,200	800	400	1
	Interest on loan	7.50-0.100-00	6.8560%	8.6500%	7.2108%	8.052
	Interest of loaf	119	82	53	29	_
	State Bank of India- VII- D11					
	Gross Drawl opening	10,000	10,000	10,000	10,000	10,0
	Cummulative repayment of drawl till prev yr	5,000	5,625	6,875	8,125	9,3
	Net Loan opening	5,000	4,375	3,125	1,875	6.
	Increase decrease due to FERV	-	-		- 1	
	Increase decrease due to ACE					
	Total	5,000	4.375	3,125	1,875	60
	Repayment of loan during the year	625	1,250	1,250	1,250	6:
	Net loan closing	4,375	3,125	1,875	625	
1	Average net loan	4,688	3,750	2,500	1,250	3
	Rate of interest on loan	7.9342%	6.8560%	6.6500%	7.2108%	8.0522
-	Interest on loan	372	257	166	90	0.002
54	State Bank of India- VII- D16					-
1	Gross Drawl opening	6,500	6,500	6,500	6,500	6,50
- (	Cummulative repayment of drawl till prev yr	3,250	3,656	4,489	5,281	6,09
1	Net Loan opening	3,250	2,844	2,031	1,219	40
. 1	ncrease decrease due to FERV		- 1	-	-	- 2
1	ncrease decrease due to ACE	-	-	-	1	-
	Fotal	3,250	2,844	2,031	1,219	40
Ī	Repayment of loan during the year	408	813	813	813	40
	Net loan closing	2,844	2,031	1,219	406	-90
	Average net loan	3,047	2,438	1.625	813	20
- 4					The state of the s	
	Rate of interest on loan	7.9342%	6.8560%	6.6500%	7.2108%	8.0522



परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणितिसक) Addl. General Manager (Commercial) एन दी पी सी लिपिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

	Union Bank of India-II- D8 Gross Drawl opening					(
	Currentlation	2,500	2,50	00 2,500	2,500	2
-	Cummulative repayment of drawl till prev yr	625	87	75 1,125		1
_	Net Loan opening	1,875	1,62	11111	-	- 1
	Increase decrease due to FERV		1,111	1,010	-	
	Increase decrease due to ACE					
_ 5	Total	1,875	4.00			
	Repayment of loan during the year	250	1,62	the same of the sa	1,125	
	Net loan closing		25	William Co. Co.	250	
	Average net loan	1,625	1,37		875	
3	Rate of interest on loan	1,750	1,50	0 1,250	1,000	
	Interest on loan	8.0795%	6.7019	% 6.0000%	7.2975%	7.94
	mitterest on Idan	141	10	1 75	73	-
re.	Company D. L. H. D.					
	Corporation Bank-IV D1		V Same	1. 12		
	Gross Drawl opening	12,286	12,28	5 12,286	12.286	12,
-	Cummulative repayment of drawl till prev yr		-		12,200	
_	Net Loan opening	12,286	12,286	the state of the s	10,000	1,
-	Increase decrease due to FERV		12,20	-	12,286	10,5
	Increase decrease due to ACE		-			
	Total		40.00	12.50	-	=
	Repayment of loan during the year	12,286	12,286	12,286	12,286	10,9
1	Net loan closing	-			1,365	1,3
	Average net loan	12,286	12,286		10,921	9,5
-1	Rate of interest on loan	12,286	12,286	12,286	11,603	10,2
-1	Interest on Ioan	8.1889%	6.80389		7.4309%	8.077
-1	interest on loan	1006	836	W. C. C. C. C. C. C. C.	862	
-				104	902	-
7	HDFC Bank LtdIV D1					
10	Gross Drawl opening	4,000	4,000	4.000		-
0	Cummulative repayment of drawl till prev yr	4,000	4,000	4,000	4,000	4.0
N	Vet Loan opening	4.000			444	- 8
	ncrease decrease due to FERV	4,000	4,000	4,000	3,556	3,1
The	ncrease decrease due to ACE				-	-
	otal					
_	Service Control of the Control of th	4,000	4,000	4,000	3,556	3,1
15	spayment of loan during the year	*	-	444	444	44
	let loan closing	4,000	4,000	3,556	3,111	
	verage net loan	4,000	4,000	3,778	3,333	2,66
	ate of interest on loan	8.0492%	6.3982%	5.9500%		2,88
In	terest on loan	322	256		7.2335%	7.9600
		SEE	256	225	241	2
Ja	ammu & Kashmir Bank-IV D2					
G	ross Drawl opening	500	-			
lo	ummulative repayment of drawl till prev yr	500	500	500	500	50
NI	et Loan opening	4		- 56	111	16
In.	orana deserva	500	500	444	389	33
E harrie	crease decrease due to FERV			-	000	
	crease decrease due to ACE				- :	
-	ital	500	500	444		
Re	epayment of loan during the year	-	56	56	389	333
Ne	at loan closing	500			56	-
	erage net loan	500	444	389	333	333
Ra	ite of interest on loan		472	417	361	333
	erest on loan	7.9880%	6.6804%	5.8800%	6.9753%	7.98009
-		40	32	25	25	- 2
K-	rnataka Bank-II					
4 44						
Car	oss Drawl opening	4,598	4,598	4,598	4,598	A FOO
	mmulative repayment of drawl till prev yr		-	4,598	4,598	4,598
Cu	t Loan opening	4,598	4,598	4,380		4,598
Cu		1000	4,386	-	-	- 4
Cu Net Inc	rease decrease due to FERV	-		-	-	-
Cu Net Inc						
Net inc	rease decrease due to FERV rease decrease due to ACE	-				
Cu Ner Inc Inc Tot	rease decrease due to FERV rease decrease due to ACE al	4,598	4,598		-	-
Ner Inc Inc Tot Rep	rease decrease due to FERV rease decrease due to ACE al payment of loan during the year	4,598			-	
Cu Net Inc Inc Tot Rep Net	rease decrease due to FERV rease decrease due to ACE al payment of loan during the year loan closing	4,598 4,598	4,598			-
Cu Net Inci Tot Rep Net	rease decrease due to FERV rease decrease due to ACE al payment of loan during the year	4,598 4,598 4,598	4,598	-		

PARIMAL PLYUSH
Addi. General Manager (Qurintification)
एन टी पी सी लिमिटेड /NTPC LIMITED
EOC. A-8A, Sector-24, Noide-201301 (U.P.)

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60	SBI-VIII D8					
-	Gross Drawl opening	1,000	1,000	4.000	+ 000	
	Cummulative repayment of drawl till prev yr	1,000	1,000		1,000	1;
	Net Loan opening	1,000	1,000	1,000	111	
	Increase decrease due to FERV	1,000	1,000	-	889	
	Increase decrease due to ACE	-				_
	Total	1,000	1,000	4 000		
	Repayment of loan during the year	1,000		1,000	889	
	Net loan closing		4 000	111	111	
	Average net loan	1,000	1,000	889	778	
	Rate of interest on loan	1,000	1,000	944	833	
-	Interest on loan	8.4675%	7.3893%		7.7442%	8.65
	interest on loan	85	74	68	65	
64	SBI-VIII D21	-				
_	Gross Drawl opening	V 1000				
		5,700	5,700	5,700	5,700	5,
	Cummulative repayment of drawl till prev yr	-	-	-	633	1,
_	Net Loan opening	5,700	5,700	5,700	5,067	- 4,
	Increase decrease due to FERV		-			
$\overline{}$	Increase decrease due to ACE	-				
_	Total	5,700	5,700	5,700	5,067	4,
	Repayment of loan during the year			633	633	
	Net loan closing	5,700	5,700	5,067	4,433	3,
	Average net loan	5,700	5,700	5,383	4,750	4.
_	Rate of interest on loan	8.4675%	7.3893%	7.1833%	7.7442%	8.65
	Interest on loan	483	421	387	368	- 7
	1010 11 (1011)					
_	SBI-VIII D24	NAME OF THE PARTY OF				
	Gross Drawl opening	3,214	3,214	3,214	3,214	3,2
	Cummulative repayment of drawl till prev yr	- 8	-		357	
	Net Loan opening	3,214	3,214	3,214	2,857	2,
	Increase decrease due to FERV		-	-	2,001	4.
	Increase decrease due to ACE	28	22			
	Total	3,214	3,214	3,214	2.857	2,5
	Repayment of loan during the year		5,617	357	357	
	Net loan closing	3,214	3,214	2,857	2,500	2.
1	Average net loan	3,214	3,214	3,036	2,679	2,3
1	Rate of interest on loan	8.4675%	7.3893%	7.1833%	7.7442%	
1	Interest on loan	272	238	218	207	8.659
7		2.2	200	210	207	-
3 1	HDFC Bank Ltd. IX (Hudco-I refinanced)			-		_
- 17	Gross Drawl opening			2.043	2.042	
	Cummulative repayment of drawl till prev yr		-	2,043	2,043	2,0
	Net Loan opening			2.042	2010	
	ncrease decrease due to FERV		-	2,043	2,043	2,0
	ncrease decrease due to ACE	-	2.212	-	-	-
	Total		2,043	2010		-
	Repayment of loan during the year		2,043	2,043	2,043	2,0
	Vet loan closing		0.040		-	
_	The state of the s		2,043	2,043	2,043	2,0
	Average net loan Rate of interest on loan		1,022	2,043	2,043	2,0
	CONTRACTOR	0.0000%	6.6191%	6.4250%	7.7085%	8,435
10	nterest on loan	0	68	131	157	
1.	TOTAL LOAN					
	OTAL LOAN	200000				- 25.50
	Gross Drawl opening	312555	312555	345998	345998	3459
10	Cummulative repayment of drawl till prev yr	65495	91819	122800	185951	2355
	let Loan opening	247059	220736	223198	160047	1104
	ncrease decrease due to FERV	0	0	0	0	
	ncrease decrease due to ACE	0	33443	0	0	
_	otal	247059	254179	223198	160047	1104
	Repayment of loan during the year	26323	30981	63150	49584	273
	let loan closing	220736	223198	160047	110463	831
183	verage net loan	233898	221967	191622	135255	967
130				20 PK TO DEST	TE ATLANTAGE AND A	7 22 42
4	nereston lea (all discus)	7.5786%	7.1045% 15770	6.8796% 13183	7.2697% 9833	7.6249

एन टी पी सी लिमिटेड /NTPC LIMITED ( EOC, A-8A, Sector-24, Noida-201301 (U.P.)



Maria	e of the Company :	Fuel for Co	omputation of Energy	Charges				PART-
Marin	e of the Company : e of the Power Station :	NTPC Lin						FORM-1
S.	of the Power Station :	Rihand S	uper Thermal Power	Station Star	III.01			
No.	Month	Unit	Oct-18	Tomor Ca	Nov-18			
mu.	The state of the s		Domestic	Imported	Domestic	The second	Dec-18	
-			27001000	mponera	DOINNE	Imported	Domestic	Imported
1	Opening Quantity of Coal Lignite	(MT)	7,98,500.00		4 44 444 44			ALIENO VIEW
2	Value of Stock	(Rs.)	1731507484		8,63,300.00		8,58,000.00	
3	Quantity of Coal supplied by Coal Company	OMT	11,03,800.00		1,82,70,94,985.00		2,01,33,08,246.00	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	11,03,000.00		10,26,100.00		11,65,700.00	-
5	(Udas supplied by Coal Company (1+2)	(MT)	11,03,800.00		10.00.000.000			
6	Normative Transit & Handling Losses	(MT)	3,200.00		10,26,100,000		11,65,700,000	
7	Net coal / Lignite Supplied (3-4)	(MT)	11,00,600.00	-	2,700.00		3,390.63	
8	Amount charged by the Coal Company*	(Rs.)	2,20,62,88,010.00		10,23,400,000		11,62,309,370	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	2,20,02,00,010,00		2,53,12,17,257.00		2.36,46,12,979.00	
10	Irranding, Sampling and such other similar chames	(Ra.)	2.41,46,258.00					
11	Total amount Charged (6+7)	(Rs.)	2,23,04,34,268.00		2,81,11,557.00		5,84,28,824.00	
12		(Rs.)	3.65.20.499.00		2,55,93,28,814.00		2,42,30,41,803.00	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Ra.)	5,00,20,499.00		2,22,83,997.00		3,83,10,986.00	
14	Demurage Charges, if any							
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs)		/				
16	Total Transportation Charges (9+10+11+12)	(Rs.)	2,09,94,373.00		1,84,34,410.00		1,85,27,883.00	_
	Total amount Charged for coal supplied including Transportation	(Rs.)	5,75,14,872.00		4,07,18,407.00		5,58,38,869.00	_
17	[(8+13+13A)	(Rs.)	2,28,79,49,140.00		2,60,00,47,221.00		2,47,98,80,872.00	
19	Landed cost of coal (14)/(5)	Rs./MT	2,116,40		2,346.48			
20	Blending Rado	%	100,00%		100.00%		2,224.00	
Zu	Wegitted average cost of coal	Rs./MT			2228.62	-	100.00%	
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)			2220.02			
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	4660.00		5009.00			
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	2.500		5000.00		4687.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCaVKg)						
25		(kCal/Kg)	4660.00		5009.00		4567.00	
28		(kCal/Kg)	4000.00		4402.00		4137.00	
27		(kCal/Kg)			16777		77.007.000	
28		(kCal/Kg)						-
29		(kCal/Kg)				-		
30	Weighted average GCV of coalf Lignite as Received  Reali-up of coal receipt through different modes for computation of Naormative	(kCal/Kg)	4000.00		4402.00	-	4137.00	

A Company of the Comp

(Petitioner)

# Details of Secondary Fuel for Computation of Energy Charges

PART-I FORM- 15A

Name of the Company :	NTPC Limited	
Name of the Power Station :	Rihand Super Thermal Power Station Stage-III	
Annual Control of the		

SI,No.	Month	Unit	Oct	-18	Nov-	18	Dec-	18
			LDO	HFO	LDO	HFO	LDO T	HFO
1	Opening Quantity of Oil	KL	561.95	4383.4	736.45	4263.2	3639.84	4114.3
2	Value of Opening	(Rs)	2,90,44,499.00	13,41,81,533.00	4,10,05,239.00	13.05.02.056.00	21,55,94,390.00	The second second second second second
3	Quantity of Oil supplied by Oil Company	KL	233.00		3,433.980	10,00,02,000.00	£1,00,04,300.00	12,59,40,974.00
4	Adjustment (+/-) in quantity supplied made by Oil Compa	KL.			0,400.300			
5	Oil supplied by oil company (1+2)	KL	233.00		3,433.98			
6	Normative Transit & Handling Losses	KL	1707977		3,493.80			
7	Net Oil Supplied (3-4)	KL	233.00		3,433.98			
- 8	Amount charged by the Oil Company	(Rs)	1,52,17,996.00		The second secon		-	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)	7,00,117,000.00		20.60,16,897			-
10	Total amount charged (6+7)	(Rs)	1,52,17,996.00		20,60,16,697.00			
11	Transportation charges by rail / ship / road transport	(Rs)	1,02,11,000,00		20,00,10,007,00			
12	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)						
13	Demurrage Charges, If any	(Rs)						
14	Cost of diesel in transporting. Oil through MGR system, if applicable.	(Rs)						
15	Total Transportation Charges (9+/-10-11+12)	(Rs)						
	Others -Entry Tax on Oil	(Rs.)						
17	Total amount Charged for fuel supplied including Transportation (8+13+14)	(Rs)	1,52,17,996.00		20,60,16,697.00		- 1	
18	Weighted average GCV of Oil as fired	kCal/kL	9790		9790		0700	
19	Weighted average rate of Secondary Fuel	Rs/KL	55,679.60	30,611.29	59,231,77	30,611.29	9790 59.231.83	30,611.29

Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of furnace oil, main secondary fuel at Rihand-III is LDO w.e.f. 01.01.2019 and the same has been considered for calculation of Working Capital.

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH
अपर महाप्रयम्पक (कार्तिक्याः)
Add. General Manager (Communical)
एन दो भी भी बिनिदेड /NTPC LEMITED
EOC. A-8A. Sector-24, Nolds-251301 (U.P.)

	Details of Source wis	Fuel for Co	moutation of Energy	Charges				PART	
Name o	of the Company :	NTPC Limi	ited			_		FORM-	
earme o	f the Power Station :	Rihand Su	per Thermal Power S	tation Stage	-III				
S. No.	Month	Unit	Oct-19	miles Otag	Nov-19				
20,030	1115000	-	Domestic	Imported	Domestic	Imported	Domestic Dec-19		
-				Partico	Comeany	mported	Domestic	Imported	
1	Opening Quantity of Coelf Lignite	(MT)	44500.0000		1,65,600.00		4 00 400 00		
-	Value of Stock	Rs.	95247214		35,57,23,828.00		4,68,400.00		
3	Quantity of Coal supplied by Coal Company*	(MT)	13,81,300.00		13,11,600.00		1,16,56,43,867.00		
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	- 740	-	14,11,000.00		10,73,900.00	-	
5	Coal supplied by Coal Company (1+2)	(MT)	13,81,300.00	-	13.11.600.00		40.70.000.000		
6	Normative Transit & Handling Losses	(MT)	3,800,000		3,000,000	-	10,73,900.000		
7	Net coal / Lignite Supplied (3-4)	(MT)	13,77,500.000	-	13,08,600,000		2,100.00		
B	Amount charged by the Coal Company*	(Rs.)	2,85,01,51,643.00		3,23,30,89,518.00		10.71,800.000		
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	5,50,010,000		0,60,00,00,010,00	-	2,02,14,10,220.00		
10	Intanding, Sampling and such other similar charges	(Rs.)	2,98,57,197.00		4,60,07,174.00		A 15 55 575 77		
11	Total amount Charged (6+7)	(Rs.)	2.88.00.08.840.0	-	3,27,90,96,692.0		6,45,95,642.00		
12	Transportation charges by rail, ship, road transport	(Rs.)	3,72,12,719.00		1,44,18,692.00		2,08,60,05,862.0		
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)	5,74,745,75.00		1,44,16,692.00	-			
14	Demurrage Charges, if any	(Rs)		_					
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	2,40,48,159.00	_	244 00 074 00				
10	Total Transportation Charges (9+10+11+12)	(Rs)	6,12,60,878.00		2.14,95,274.00		16656007		
	Total amount Charged for coal supplied including Transportation	(Rs)			3,59,14,955.00		1,68,56,007.00		
11.	(B+13+13A)	1,440	2,94,12,69,718.0		3,31,50,11,658		2,10,26,61,869		
18	Landed cost of coal (14)/(5)	Rs/MT	2,135,38						
	Blending Ratio	No.	100.00%		2,488.35		2,122.04		
20	Weighted average cost of coal	Rs./MT	100.00%	_	100.00%		100.00%		
385	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)			2248.0	79	- 10000000		
6.1		Tuesaudii.	4558		4578	-	4898		
22	GCV of Domestic Cost supplied as per bill Coal Company	(kCal/Kg)	4579	_					
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	43/3		4939		4229		
24	GCV of Imported Coal supplied as per bit Coal Company	(kCal/Kg)							
25	Weighted average GCV of coal/ Lignite as Billed		4570						
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	4578		4898		4432		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	4126		4072		4355		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)	4070		4391		4020		
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)					- 1/07/		
30	Weighted average GCV of coal as Received	(kCal/Kg)	2000		15.5		100		
to. Bri	eak-up of coal receipt through different modes for computation of Naormati	(kCal/Kg)	4072		4355		4122		

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयान्धक (वाणित्यक) Addi. General Manager (Commercial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

(Petitioner)

## Details of Secondary Fuel for Computation of Energy Charges

PART-I FORM- 15A

Name of the Com		NTPC Limit	ed					
lame of the Pow	er Station :	Rihand Sup	er Thermal Pow	er Station Stage-	III			
SI.No.	Month	Unit	Unit Oct-19		Nov	-19	De	c-19 #

SI,No.	Month	Unit	Oct-1	9	Nov-1	9	Dec-1	9 #
-	Constant Object of City		LDO	HFO	LDO	HFO	LDO	HEO
1	Opening Stock of Oil	KL	5,772.386		5,507,386	111 0	The second secon	HFO
2	Value of Opening Stock	Rs.	30,57,75,957		29,17,38,325	-	5,383.390	
3	Quantity of Oil supplied by Oil Company	KL			20,17,20,020		28,51,69,772	
4	Adjustment (+/-) in quantity supplied made by Oil Compar	KL						
5	Oil supplied by oil company (3+4)	KL						
6	Normative Transit & Handling Losses	KL			-	-	-	
7	Net Oil Supplied (3-4)	KL	-					3-2-3-5
8	Amount charged by the Oil Company*	(Rs)	-	-				
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)					1000000000000	-
10	Handling, Sampling & Such other charges	(Rs)		( 6 )	- 27		24,084.00	
11	Total amount charged (6+7)	(Rs)					- AAG-CO-MAN	
12	Transportation charges by rail / ship / road transport	(Rs)	-	-			24,084.00	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)						
14	Demurrage Charges, if any	(Rs)						
15	Cost of Diesel in transporting Secondary Fuel through MGR system, if applicable	(Rs)						
16	Total transportation charges	(Rs)						53.53
	Total amount charged for the Oil supplied including transportation	(Rs.)		-		-		
	Landed Cost of Oil	Rs/KL	52,972.20				24,084.00	
29	Weighted average GCV of Oil as fired	k/Colifet	0000		52,972.19		52,976.70	
ote: in	n terms of the order of Hon'ble Supreme Court regarding bu	ROBURL	9609		9605		9609	

i on use of furnace oil, main secondary fuel at Rihand-III is LDO w.e.f. 01,01.2019 and the same has been considered for calculation of Working Capital.

(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH
अपर महाप्रवान्ध्य (कार्नितिकार)
प्रवात जिल्ला (कार्नितिकार)
एन दी भी सी सिनिन्देश/NTPC LIMITED
EOC, A-8A, Sector-24, Nokla-201301 (U.P.)

-	Details of Source wise	Fuel for Cor	mputation of Energy C	Charges				PAR
fame :	of the Company :	NTPC Limit						FORM-
same o	of the Power Station :		er Thermal Power Sta	tion Steam				
S. No.	Month	Unit	Oct-20	ition stage-				
	(eistain	- C-1112	Domestic .	I benevited	Nov-20		Dec-20	0
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Opening Quantity of Coal/ Lignite	(MT)						
2	Value of Stock	Ra			2,24,800.00		5,83,400.00	
3	Quantity of Coal supplied by Coal Company*	(MT)	14 04 000 00		45,24,10,097.00		1,28,27,22,780.00	
4	Adjustment (*/-) in quantity supplied made by Cost Company	(MT)	14,24,200.00		12,62,500.00		11.52.000.00	
5	Gost supplied by Cost Company (1+2)	(MT)	44.53.555.55					
6	Normative Transit & Handling Losses	(MT)	14,24,200.00		12,62,500.00		11.52.000.000	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,300.000		2,900,000		2,400.00	
8	Amount charged by the Coal Company*	(Rs.)	14,19,900,000	-	12,59,600,000		11,49,600,000	-
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	2,66,58,32,773.00		2,34,31,78,863.00		2,19,65,93,399.00	
10	Handling, Sampling and such other similar charges	(Rs.)	6,51,79,008.00		37,90,86,848.00		31,01,08,449.00	
11	Total amount Charged (6+7)	(Rs.)	4,07,85,312.00		5,12,79,360.00		5,87,21,528.00	
12	Transportation charges by rail, ship, road transport	(Out )	2,77,17,97,093.0	+	2,77,35,45,071.0		2,56,54,23,376.0	
	Adjustment (+/-) in amount charged made by Raiways/ Transport Company	(Rs.)	5,82,32,386.00		1,48,09,169,00		3.15,08,721.00	
13		(PCs.)						
14	Demurrage Charges, if any	(Per						
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs)						
16	Total Transportation Charges (9+10+11+12)		2,72,62,513.00		2,27,73,599.00		2.16.24.463.00	
1000	Total amount Charged for coal supplied including Transportation	(Rs.)	8,54,94,899.00		3,75,82,768.00		5,31,31,184.00	
17	(8+13+13A)	(Rs.)	2,85,72,91,992.0	4.7	2,81,11,27,839		A 1.093 E 05000 X U.C.O.	
18	Landed cost of coal (14)/(5)	D. der			2,01,11,21,038		2,61,85,54,560	
19	Blending Ratio	Rs/MT	2,012.41		2,198.59		2,251.14	
20	Weighted average cost of coal	79	100.00%		100.00%		100.00%	
	GCV of Domestic Coal of the opening stock as per bill of Coal Company	Rs./MT		200	2161.3	22	160.0076	
21	Company of the spenning shock as per bill of Coal Company	(kCaVKg)	4365					-
22	GCV of Domestic Coal supplied as per bill Coal Company	0.357			4435		4687	
	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	4435	de la	4708		4879	
23	and the control of the opening about as plat this or Coal Company	(kCal/Kg)					49/8	
	GCV of Imported Coal supplied as per bill Coal Company							
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)						
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	4435		4667		4675	
27		(kCal/Kg)	3630		3817		4148	
28	GCV of Imported Cost of opening stock as received at Station	(kCal/Kg)	3817		4207		4151	
29	190 AV DE IMPROPACIÓ COST especiment per proportion de descrip-	(kCal/Kg)			78001		4101	
30	Weighted suspense GCU of sent as Bossel	(kCal/Kg)	= = = = = = = = = = = = = = = = = = = =					
to De	eak-up of coal receipt through different modes for computation of Naormative	(kCal/Kg)	3817		4148		4150	

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (क्रांगिविकार) Addi. Ganeral Manager (Commicial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

#### Details of Secondary Fuel for Computation of Energy Charges PART-L FORM- 15A Name of the Company : NTPC Limited Name of the Power Station : Rihand Super Thermal Power Station Stage-III SI.No. Month Unit Oct-20 Nov-20 Dec-20 LDO HEO LDO HFO. LDO HFO: Opening Stock of Oil KL 5,060,395 5.004.395 Value of Opening Stock 4.089.400 Rs. 22,94,37,752 22.68.98.718 3 Quantity of Oil supplied by Oil Company 18,54,12,719 KL 4 Adjustment (+/-) in quantity supplied made by Oil Compar 3,156,270 KL 5 Oil supplied by oil company (3+4) KL 6 Normative Transit & Handling Losses 3,156.270 KL Net Oil Supplied (3-4) KL -3,156,270 8 Amount charged by the Oil Company\* (Rs) 14,29,15,264.00 Adjustment(+/-) in amount charged made by Oil 9 Company (Rs) 10 Handling, Sampling & Such other charges (Rs) 11 Total amount charged (6+7) (Rs) 14,29,15,264.00 12 Transportation charges by rail / ship / road transport (Rs) Adjustment (+/-) in amount charged made by 13 Railways/Transport Company (Rs) 14 Demurrage Charges, if any (Rs) Cost of Diesel in transporting Secondary Fuel through 15 MGR system, if applicable (Rs) 16 Total transportation charges (Rs) Total amount charged for the Oil supplied including 17 transportation (Rs.) 14.29.15.264.00

Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of furnace oil, main secondary fuel at Rihand-III is LDO w.e.f. 01.01.2019 and the same has been considered for calculation of Working Capital.

9540

45.339.89

9540

45,339.89

Rs/KL

kCal/kL

18 Landed Cost of Oil

29 Weighted average GCV of Oil as fired

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिजियक) Addi. General Manager (Commercial) (연구 원 대 제 전비관광/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

45.313.71

9371

Street e	of the Company	Television									FORM-
	the Power Station :	MTPC Lie								F	
i. No.	S2295570		per Themai Power				54445015-				
P. 1910.	Month	Unit		Oct-21	-		Nov-21	to the service of	View and the second	Dec-31	
			Domestic	imported	Biomass	Correstic	Imported	Biomass	Domestic	Imported	Direction of
3	Opening Quartity of Coal/Lignie	(MF)	Married No.					-100000		HOROV MA	Biograms
2	Value of Stock	Ris.	790191 3600			1,91,633.48			1.91,935.25	-	
3	Quartity of Coal supplied by Coal Company	(MT)	41,28,93,907 10,97,711,640			47,39,21,223			44.17.08.535		
4	Adjustment (44) in quantity supplied must by Cost Company	(MT)	-	-		11,53,204,180	4.1		12,78,343,00	-	
2	Lost supplied by Coal Company (5+4)	IMT	10,97,711,640			- 1000000000000000000000000000000000000					
0	Numerica Transit & Handling Linears	WD	2,795 420	-	7	11,53,204,180	174	4.7	12,78,343,06	-	
T	Reticizal Lignite Supplied (5-6)	(MT)	10.86,516,220			2,308.410			2,784.00		
В.	Amount charged by the Ceal Company	Mari	2,10 90,02 968			11,50,897,770			12,75,559.00		-
2	Adjustment (11-) in amount charged made by Coal Consumy	(98.)	58.54.01.888	-		2,20,97,37,972			2,44,04,65,576,00	-	-
194	merding, Samoine and such other similar charves.	liffer 1	4,75,79,247.00			33,05,67,855			60,64,58,832,007	-	
.11.	Total amount Charged (8+9+10)	(Rs.)	2,74,32,01,068			4.86,94,717			5,04,17,449.00		
12	Instruportation charges by rail, stup, road versiport	(Rad)	21/2/20/01/000	-		2,58,99,00,645			3,17,73,42,357	-	
	Adjustment (*/-) in amount charged made by Railways: Transport	(Rs.)							75.33.317.00		
15	Company	X									
14	Dersurvage Charges, Kany	( Rh.)									
380	Cost of diesel in Namiporting coal through MGR system. If applicable	(Ra.)	2,34.56,100.00			2.57.87.011.00	+		****		
76	Total Transportation Charges (12-13+14+15)	(Ra)	2,94,56,100	-					2,64,56,958.00	5.0	
10	Total arrows Charged for soal supplied including Transportation (11+19)	(Rs)	2,76,67,37,168	- :	-	2,57,67,010	-		3,42,92,276.50	1.4	
18	Landed oper of cost (2+17)(1+7)	BLWT.	2,470.08						3,21,16,34,632		
	Blending Ratio	PARTE.	100.00%			2,301.33	101.00	10,000	2 469 51	4 - 04.11	
20	Woughted everage cost of osal (including biomass)	Re INT	100,99%	2473.06	0.00%	100,00%	0.00%	. D.00%	100.00%	0.00%	9.0
- 1	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(NGaRico)	4575	2472.06			2301.33			2409.51	- 20
21 4		(married)	43/3			4901			4748		-
66	GCV of Domestic Coal supplied as per bill Coal Company	(MCalHigh	4950			4723		_	4895		
6.0	GCV of Imported Cost of the opening stock as per bill of Cost Company	(#Cal/Kg)				ICION I			1000		
24	GCV of Imported Coal supplied as per trill Coal Company	(ACM/Kg)					_	-			
45	Weighted inversige GCV of coal) Lightle as Billed (self-sting Storeses)	(NC46Kg)		1447			4748			4876	
20 1	GCV of Domestic Coal of opening stock as received at Station	(ACDEMG)	3668	4901		4272	5.00		4216	770	
27	OCV of Domestic Coal Supplied as received at Station	9.CellYg)	4322			4307		-	44721		
29	GCV of Imported Coat of opening stock as received at Stallon	(kCalKg)			-		_		-		
29		(kCalKg)									
20	Visighted average GCV of coal as Received (including biomass)	(kCat/Kg)		4272	_		4216	_		4439	*

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (याणिजियक) Addi. General Manager (Commercial) एन टी वी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

### Details of Secondary Fuel for Computation of Energy Charges

PART-L FORM- 15A

Name of the Company: NTPC Limited Name of the Power Station : Rihand Super Thermal Power Station Stage-III SI.No Month Unit Oct-21 Nov-21 Dec-21 LDO **HFO** LDO HFO LDO HFO Opening Stock of Oil KL 4.360.090 7,027,170 6,865,170 2 Value of Opening Stock 22 02 87,492 Rs. 40.75.86.271 39,81,90,030 Quantity of Oil supplied by Oil Company KL 3.162.080 4 Adjustment (+/-) in quantity supplied made by Oil Compa KL Oil supplied by all company (3+4) KL. 3,162,080 . -6 Normative Transit & Handling Losses KL Not Oil Supplied (3-4) KL 3.162.080 -8 Amount charged by the Oil Company\* (Rs) 21,60,09,516.00 Adjustment(+i-) in amount charged made by Oil Company (Rs) 10 Handling, Sampling & Such other charges (Rs) 11 Total amount charged (6+7) (Ris) 21,60,09,516.00 12. Transportation charges by rail / ship / road transport (Rs) Adjustment (+/-) in amount charged made by 13 Railways/Transport Company (Rs) 14 Demurrage Charges, if any (Rs) Cost of Diesel in transporting Secondary Fuel through 15 MGR system, if applicable (Rs) 16. Total transportation charges (Rs) Total amount charged for the Oil supplied including 17 transportation (Rs.) 21,60,09,516.00 18 Landed Cost of Oil Rs/KL 58,001.48 56,001.48 58,001.49 19 Blending Ratio (Domestic/ Imported) 36 1.00 1.00 1.00 20 Weighted average cost of Oil Rs/KL 58,001.48 \$8,001.48 58,001.49 GCV of Domestic Oil of the Opening Oil stock as per bill of Oil Company kCalikt. GCV of Domestic Oil supplied as per bill of Oil Company kCal/kL GCV of Imported Oil of the opening stock as per bill of Oil Company kCal/kL GCV of Imported Oil supplied as per bill of Company kCal/kL 25 Weighted average GCV of Oil/ Lignite as Billed. kCal/kL GCV of Domestic Oil of the Opening Oil stock as received at Station kCal/kL GCV of Domestic Oil supplied as received at Station 27 9.232.00 9,232.00 kCal/kt. 0.232.00 GCV of Imported Oil of the Opening Oil stock as 28 received at Station kCal/ki.

30 Weighted average GCV of Oil as received 9,232.00 9,232.00 Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of furnace oil, main secondary fuel at Rihand-III is LDO w.e.f. 01.01.2019 and the same has been considered for calculation of Working Capital.

kCalikL

kCallkL

29 GCV of Imported Oil supplied as received at Station

(Petitioner

Add of Property Andrews Andrews Control of Property of the Pro

same	of the Company	NTPC Lim	itted								PART-
tame	of the Power Station :		per Thermal Pow								
S. No.	We down	Linit			tage-III						
O. THU	Month	Unit		ot-22			lov-22		D	ec-22	
	The state of the s		Domestic	Imported	Biomass	Domestic	Imported	Biomass	Domestic	Imported	Biomass
1	Opening Quantity of Coal Lignite	(MT)		-				Caracter 1		ning street	21011405
2	Value of Stock	Rs.	8,35,569	1-1	-	6.49,142.29			8,37,711.48	-	
3	Quantity of Coal supplied by Coal Company	(MT)	2,27,74,26,302			1,67,41,75,359	-04		1,97,06,80,724	-	
4	Adjustment (+/-) in quantity appoint made by Coal Company	MT	9,82,297,460			12,17,064.320			11,18,452.95	-	
5	Coal supplied by Coal Company (3+4)		* **	4	-	-		+ 1	111111111111111111111111111111111111111		
8	Normative Transit & Handling Losses	(MT)	9,82,297.460			12,17,064.320		-	11,18,452.95		
7	Net coal / Lignita Supplied (5-8)	(MT)	1,964,590			2,434,130			2.236.91		-
8	Amount charged by the Coal Company	(MT)	9,80,332,870		-	12,14,630,190	7.2	-	11,16,216,05	-	
9	Adjustment (+/-) in amount charged made by Coal Company	(Res.)	1,95,99,35,106			2,42,23,52,592			2,22,92,10,032,00		
10	Handling, Sampling and such other similar charges	(Ra.)	37,55,49,879			20,61,95,971			22,89,89,574.00		
11	Total amount Charged (8+9+10)	(Rs.)	4,35,76,433.00			4,97,90,207			4,55,79,768.00		
12	Transportation charges by rail, ship, road transport	(Rs.)	2,37,91,61,418			2,67,83,38,771			2,50,37,79,374		
	Advantment (+) \ in ordered should be an appropriate the street of the s	(Rs.)	- Constitution of the contract	-				-	2,00,01,79,316	-	-
13	Adjustment (+/-) in amount charged made by Railwaya/ Transport Company	(Rs.)								40	*
14	Demurage Charges, if any	13.3					- 1				
-14	Cost of discord in terry	(Ra.)						-			
15	Cost of diasel in transporting cost through MGR system. If applicable	(Rs.)	2,67,29,361.00			3,19,30,967.00	14		0.00 43 443 44	-	
16	Total Transportation Charges (12-13+14+15)	(Rs.)	2,67,29,361						2,98,47,437,00		
	Total amount Charged for coal supplied including Transportation (11+16)	(Ra)	2,67,29,361	*		3,19,30,966	7-31	124	2,98,47,437.00	-	
17		1708.7	2,40,58,90,779	- 43	¥a	2,71,02,69,737	2		2,53,36,26,811		-
18	Landed cost of coal (2+17)/(1+7)	Rs/MT	2,579,06		_	2 352 46				- 17	10.5
19	Blending Ratio	%	100.00%	0.00%	0.00%	The second secon			2,305.26	1 - 1 + -	
20	Weighted average cost of coal (including biomass)	Rs./MT		79.06	0.00%	100,00%	0.00%	0.00%	100.00%	0.00%	0.001
	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCallKg)	9045	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	_		52.46		23	05.26	
21			3043	8		4948			4708		
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	4866		_	4579		-	4589		-
200	GCV of Imported Coal of the opening stock as per bill of Coal Company		2000						4003		
23	and the control of th	(kCukKg)								_	
0.77	GCV of Imported Coal supplied as per bill Coal Company	W- 100									
24	and the second of the part of the party	(kCal/Kg)									_
100	Weighted average GCV of coal! Lignite as Ettled (including Biomass)										
25	a man and a source and the second circularity dictinated	(kCalKg)		dian-		4	708		4	640	
	GCV of Domestic Coal of opening stock as received at Station			948						o-an	
26		(kCatiKg)	4431	922		4311			4086		
200	GCV of Domestic Coel Supplied as received at Station								4000		
27	and a provide com problem as received at Straton	(kCn(Kg)	4209			3965		_	7057	_	
	GCV of imported Coal of opening stock as received at Station					1,000			3062		
28	and a substance come or obstand order to section of station	(kCal/Kg)					_	_		_	
	3CV of Imported Coal Supplied as received at Station			//	- 1			- 1			
29		(kCal/Kg)					_				
	Amortised Sussesses CCSV of continue III										
30	Weighted average GCV of coal as Received (including biomass)	(kCal/Kg)	4	311		4	086			958	

(Petitioner)

### Details of Secondary Fuel for Computation of Energy Charges

PART-I FORM- 15A

Name of the Company : NTPC Limited
Name of the Power Station : Rihand Super Thermal Power Station Stage-III

Si.No	Month	Unit	Oct-2	21	Nov-	21	Dec-2	1
			LDO	HFO	100	<u> </u>	741.0411	
1	Opening Stock of Oil	KL	5,770,920	nro	LDO	HFO	LDO	HFO:
2	Value of Opening Stock	Ra.	45,72,64,443		4,863.920		4,481.920	
3	Quantity of Oil supplied by Oil Company	KL.			38,53,97,406		35,51,29,260	
4	Adjustment (+/-) in quantity supplied made by Oil Comps	NL I	1,098.000			1.2	3,035.630	-
5	Oil supplied by oil company (3+4)							
-0	Normative Transit & Handling Losses	KL		- 19			3,035,630	
	Net Oil Supplied (3-4)	KL						
8	Net Oil Supplied (3-4)	KL	-				3,035,630	-
0	Amount charged by the Oil Company*	(Rs)			199		29,42,39,528.00	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)					20,12,35,550.00	
10	Handling, Sampling & Such other charges	(Rs)				-	(*)	- 114
11	Total amount charged (6+7)	(Rs)					00.70.00.00.00	
12	Transportation charges by rail / ship / road transport	(Rs)			-	-	29,42,39,528.00	-
3326.6	Adjustment (+/-) in amount charged made by							
13	Railways/Transport Company	(Rs)						
14	Demurrage Charges, if any	(Rs)						
1	Cost of Diesel in transporting Secondary Fuel through	(rea)	_					
15	MGR system if applicable	(Rs)						
16	Total transportation charges	(Rs)						
	Total amount charged for the Oil supplied including	(142)	-	15				
	transportation	(Rs.)					29.42.39.528.00	0.5
	Landed Cost of Oil	Rs/KL	79,235.97		79,235.98		86,380.38	
19	Blending Ratio (Domestic/Imported)	56	1.00		1.00		1.00	
20	Weighted average cost of Oil	Rs/KL	89,236	00	93,455	nn	86.380.	10
21	GCV of Domestic Oil of the Opening Oil stock as per bill of Oil Company	kCal/kL			75,100	.00	85,380.	18
22	GCV of Domestic Oil supplied as per bill of Oil Company	kCal/kL						
23	GCV of Imported Oil of the opening stock as per bill of Oil Company	kCalrkL						
24	GCV of Imported Oil supplied as per bill of Company	kCallkL						
25	Weighted average GCV of Oil/ Lignite as Billed	kCallkL						
26	GCV of Domestic Oil of the Opening Oil stock as received at Station	kCaUkL						
27	BCV of Domestic Oil supplied as received at Station	kCallkL	9,382,00		9,362,00		9,302,00	
72.	GCV of Imported Oil of the Opening Oil stock as received at Station	kCal/kL			133333000		1,000	
28								
29	A ALL I STATE OF THE STATE OF T	kCal/kl.						

Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of furnace oil, main secondary fuel at Rhand-III is LDO w.e.f. 01.01.2019 and the same has been considered for calculation of Working Capital.

(Petitioner)

State of the state

				congulator	of Energy Ci	arces						F
	CLimited										ADDIT	Form-19 IONAL FOR
ame of the Power Station Rina	nd Super The	nmai Power	Station Stage	411							ADDIT	DIGHT FOR
								5-15-55-19-19				
						No of Days in the period	1	2019-20	2029-21	2021-22	2022-23	2023-24
Computation of Energy Charges						No of Days in the year	Days	366	365	365	365	36
Competition of Energy Charges	_					Sp. Oil consumption	Days	366	365	365	365	3
	2019-20	2020-21	2021-22	2022-23	2023-24	Austracy consumption	milkets	0.5	0.5	0.5	0.5	- 0
Rate of Energy Charge	100000	-	1000		2020	Heat Rate	%	6.25%	6.25%	6.25%	6.25%	6.251
from Sec. Fuel Our = (CL), X P.	2.945	2.649	2.266	2.900		Martin Colonia	Kcal/Kwh	2,358.84	2,358,84	2,358.84	2.358.84	2,358.84
Alternate Fuel (privality CO).	VIII. 1866	1,000,400	6.400	2.900	4.110	Computation of Variable	Charges		- 200	2000001	2.050.04	6,350,84
						Variable Charge (Coal)	pikwh	136,660	137,746	137,273		-
Heat Contribution from - QuiL X (90V).	4.895	4.804	2000	0.00000		Variable Charge (Oil)	p/kwh	3.142	7.825		144,028	149.99
SFO / Alternate Fuel (H) "(UIL X (90V),		4.004	4.742	4.616	4.671	Total	p/kwh	139,801	140.571	2,418	3,093	4.38
						American contract	300000	1900,000 1	140.00	139,690	147.121	154.37
						Price of fuel from Form-18	5/15A					
Heat Contribution from (HJ) = GHR-H,	2353.96	2354.04	2354.10	96000000	522200000	Coal Cost	(RsJMT)	2228.61	2248.06	2161.19	2422.66	
coal	500000	4004.04	2.304.10	2354.22	2354.17	Oil Cost	(Rs.492.)	58903.64	62973.63	45328.92		2409.1
NAME OF THE PARTY OF THE PARTY OF THE PARTY.						HERE THE PARTY OF			08013300	40320.92	58001.48	82194.7
Specific Primary Fuel (Qs), "HJ (QCV),	0.575	0.574	0.596	0.557	0.584	/1 ( <u>4</u> 25) 3 C (2 (4) C (2 (4) C (2 (4) C						
Consumption		3002000		90001	0.564	Computation of Fuel Expo	made for G	siculation of N	WC:			
Rate of Energy charge						Local a year	(MUs)	6999.75	6980.63	.0980.63	6990.63	simbo m
from Primary Fuel (REC), (přewto	128.119	129.137	128,693	135,026	140.616	ESO for 40 days	(MUs)	765,000	765,000	765,000	765,000	6999.75
(prewrit)			100000	100,460	190,010	Cost of coal for 45 Days	(Rs. Laking	10454.48	10537.56	10501.35	11018.11	765.000 11474.2
HARALPHOOD CONTROL THORSE CONTROL						Cost of oil for 2 months	(Rn. Lakh)	366.60	328.70	281.27	359.90	511.42
Rate of Energy charge ex(REC) = ((REC), + (REC), bus (p/RVAt)	139.801	140.571				Energy Expurses for 45 day	(Rs. Linktri)	12031.85	12097.90	12022.08	12661.60	13285.76
Constitution (1-64DQ)	randa I	140.371	139,690	147.121	154.374			5-540-110-10-			12207.00	13205,70
						Coat		2000 00 1			1150 Stock 100	
						Who, Avg. Price of Cool	Rs MT	2019-20	2020-21	2021-22	2022-23	2023-24
						Who Aug. GCV of Coal as	POLIMI	2228.61	2248.08	2161.19	2422.65	2409.13
						received	kCal/Kg	4179.67	4183.00	4038.33	4309.00	4118.33
						Sec. Oil	kCal/Kg	4094.67	4018.00	3953.33	4224.00	4033.33
										-	722.100	4033.33
						Wtd. Avg. Price of Secondary Fuel	Ha/KI_	58903.64	52973.63	45328.92	et de la constant de	
						Vital, Aug. GCV at			Jan 13.03	*5328.92	58001.48	82194.72
							kCal/L	prison an	2023/00 +		-	
						Secondary Fuel	MU-GAL 1	9790.00	9007.67	9483.67	9232.00	9342.00

परिमल पीयूष/PARIMAL PIYUSH अधर महाप्रधन्सक (वर्गाणिज्यक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

(Petitioner)

1	FORM- 17	9-20)	t of Capital Spares (201	omitted in respec	orangoon to be so	NTPC Limite	of the Petitioner: NTPC Ltd.	Name o
-1					r Thermal Power		of the Generating Station:	Name o
1				Station Stage-III	r inemai Power	27,03,2544	f Commercial Operation:	Date of
-1	Amount in Rs Lakh					049-20	Details of Capital Spares and Expenses in 20	
4	AMOUNT IN ITS LAKE			-	-	015-20	The second of th	
•	Remarks	Claimed as a part of stores and spares	Funded through Special Allowance (If Applicable)	Funded through Compensatory Allowance	Claimed as a part of additional Capitalisation	Value of the Asset	Name of Spare	SI, No.
1			No	No	No	0.35	GV-IS:10611-H.O:BW-A216 WCC:2500:100MM	2 4
1		No	No No	No	No	0.27	C.S. GATE VALVE SIZE 100mm	2 1
1		No	No	No -	No	0.40	400 NB MANLOPTO BUTTERFLY VALVE	3 1
l .		No	No.	No	No	0.26	C.I.GATE VALVE SIZE 8(200MM)	9 1
1	1	No	No	No	No	0.28	FLUIDOMAT HFD-7 COMPLETE ASSEMBLY	0 0
		No	No No	No	No	15.97	COMP ASSY, FLUIDOMAT, COUPLING, SC-10	7 6
l		No	No No	No	No	42.48	COMP ASSY, FLUIDOMAT, COUPLING, SC-14	8 6
I .	1	No	No No	No	No	5.00	COMP ASSY BREVENI GLAR BOX SC8504	9 0
l .	1.71	No	No No	No	No	85.75	COMP UNIT DAVID BROWN GEAR BOX 83-355	10 0
		No	No I	No	No	8.70	COMPLETE ASSY, DAVID BROWN, GEAR BOX	
	7	No			No	49.79	COMP ASSY, ELECON, GEAR, BOX, NK-KCU200, 80:1	. 0
		No	No	No	197-		COMP ASSY ELECON GEAR BOX, SBN288, 14:1	
	1	No	No	No	No	30.81	COMP ASSY, ELECON, GEAR BOX, VK5S-424, 570:1	
		No.	No	No	No	43,31		
		No	No	No	No	27.99	COMP ASSY, PCT, GEAR BOX, SR 32.2(12.93.1)	
	I	No	No	No	No	35.55	COMP ASSY, PREMIUM ENERGY, GEAR BOX, 8232	C
		No	No	No	No	3.50	COMP ASSY, PREMIUM ENERGY, GEAR BOX, 83-356	
		140	5.050	667	No	4.42	GEAR COUPLING ED8400 COMP UNIT ELECON	17   9
		No	No	No No	No	1.49	ELECON: BZWE-5800-COMP ASSY	18 15
150		No	No	No	No.	11.22	OH 600-2000-2-SJ COMPLETE CATRIDGE ASSY.	19 0
11		No	No	No	No	16.19	MPELLER SHAFT, 1800101, BHM-125	20 IN
12		No	No	No	No	3.28	MEHLG COMP ASSLY	
	F	No	No	199.55	1000		COMPLETE PUMP ASSY., ST,4MD 80/205DMAKE	22 C
		No	No	No	No	2.49	COMPLETE CATRIDGE ASSEMBLY TOBIPS-ADP	22
		No	No	No	No	37.92	IZE200 WATER RING VACUUM PUMP ASSY	
		No	No	No	No	22.24	COMPRESSOR COMPLETE, TYPE-30	25 C
विस्/PARIMAL PIYUSH महाप्रवासक (वार्तिमाचिवक) महाप्रवासक (वार्तिमाचिवक)		No	No	No No	No No	27,11	-C150-GV-HW-BW-WCB-COMPLETE VALVE ASSY.	
四年/PARIMAL PT 中医院等等等 (本情所を定め) 中医院等等等 (本情所を定め) eneral Manager (Commercial)		No	No			-	C150-FV-BW-WCR-DOMP V/V ASSET V	27 4
Par (Ellano (Ellano	South of	No	No	No	No	6.92	ODY, H95/325&1, HOPKINSON	28   BI
महाप्रक-डाक (द्यारिमाचिवक) महाप्रक-डाक (द्यारिमाचिवक) eneral Manager (Commercial) eneral Manager (Commercial) को लिमिटेड /NTPC LIMITI को लिमिटेड /NTPC 201301 (U	distant	No	No	No	Ne		LUID ORIVE HYD CPLG 38SCR24R genomi	29   FI
MATTER LIMIT	314	No	No	No	No	11.58	P DOSING PUMP WITH MOTOR ASSY BHELL	30 IH
- B (日) (1) (1) (1) (1) (1) (1)	Add. 4	No	No	No	No	531.48	CO COIL LOWER ASSY	31 E
AN Noids-24	- जी भी	No	No	No	No		CUBLE CKT;22 TUBE ECO COIL PAIR ASSY	32 De
a Sector-4	एन टा 1	No	No	No	No	560.91	VALL BLOWER ASSY:	33 W
And and	EOC. A-P	No	No	No	No	6.03	NTRAL TRUNNION SHAFT MAIN PREHEATER	4 E
	200	No	No	No	No	59.00	EAR BOX, TYPE-IL3 INPUT DOWNSHAFT	10 G
		No	No	No	No	41.85	IN RACK ASSY, FOR SAPH 30.0 VIM 2000	16 Pt
		No	No.	No	No	5.75	IN RACK ASSY FOR PAPH-27.5 VIM 2000	17 PH
		No	No	No	No	4.32	EGONDARY GEAR BOX	8 3
		No	No	No	No	64,27	VERBUNNING CLUTCH FOR SAPH	9 0
		190	No	No	No	3.66	ARTHUR WINES GLUTCH FUR SAFE	1.0

40 Sh	HAFTSIMPELLER ASSY,05852001	309.05	No	No T	No	1
41 IM	PELLER BLADIT 0-55-216-00829 (0)4+ BHEL	52.11	No	No		No
42 MA	ULT ( PORT ASSY 614000011.03.01 G.BHEL	18.66	No	No	No	No
3 BL	JLL RING SEGMENTS ASSEMBLY, MILL XRP1003	28.99	No	No	No	No
4. GF	RINDING ROLL FOR XRP 1003	80.29	No	2755	No	No
5 MI	LL BOTTOM FOR XRP-1003 MILLS	4.56		No	No	No
5 BE	LT DRIVE REDUCER	71.37	No No	No	No	No
7 BE	LT DRIVE REDUCER, SWM150V150R, 500MW	The second second	the Control of the Co	No	No	No
8 Uh	NTROL-6000 POWER SUPPLY QUINT	7.72 0.45	No	No	No	No.
9 JUN	NITROL-6000:COMM_CTRL MEASU DEVICE	5.70	No	No	No	No.
0 00	ONTROLLER,38HE023784R2530,ABB	12.51	No	No	No	No
1 JUN	WITROL-8000 FIRING UNIT	3.82	No	No	No	No
2 110	PIBOTTOM SHELL R210(A0)1175 NEI		No	No	Np	No
SITO	P/BOTTOM SHELL R210(A0)117084.5,NEI	8.88	No	No	No.	No
4 U-3	SEALING RING MACHINED 01050109000/7	11.55	No	No	No	No
		3.93	No	No	No.	No
10	URNAL BRG ASSLY,D250X180,01160418000&0	44.90	No	No	No	No
5 IV	SERVOMOTOR COMPLETE 0-11403-27000	16.61	No	No	Ale	- 11
AN	CLE DRAIN VALVE ER20-2, AR1180/81	14.84	No	No	No No	No
ES	V SERVOMOTOR COMPLETE 8-11401-27000	45.41	No	No.	No No	No
BE	ARING SHELL ASSY,91390101000	57.05	No	No		No
BE	ARING SHELL ASSY,9138120100300008	64.54	No	No	No	No
MA	IN OIL PUMP IMPELLER PartNO. 3158377	14.28	No	No	No	No
	MPLETE HP GOVERNING WV K1401-9	1.15	No	No	No	No
DIE	SEL GENERATOR 250KVA GPW11-P11-250	16.61	No	No No	No	No
IRO	TOR ASSY,M07219/1 EKK 48X114	63.71	No	No.	No	No
PAI	DDLE ASSY,2322016&3 FLSMIDTH,1125MTPH	13.91	No	No.	No No	No
HY	D MOTOR, 2322016810, FLSMIDTH, 1125TPH	44.45		1110	190	No
112	SMTPH TRAVEL DRIVE GEARED MOTOR	11,35	No	No	No	No
Dife	IVE UNIT ASSY, TRF.TE-13	1.84	No	No	No	No
LU	F HYD CYUNDER HL0963/282 ELECON EPC	1.72	No	No	No	No
MA	GNET ASSY, ED X14.010.0VB01059+	110.27	No	No	No	No
ASS	SLYOF FLUID COUP FCU- 17.75	43.15	No	No	No	No
		0.81	No	No	No	No
	MP FLUID COUPLING FOR ASH SLURRY PUMP	10.14	No	No	No	No
200 PV	X250MM COMPLETE ASSEMBLY	9.67	No	No	No	No
	G FILL PK: GF: (1216X1829X305); THK-0.3MM	418.97	No	No	No	No
PV	C FILL PK:CF: (869X 1829X305) THK-0.3MM	40.39	No	No	No	No
VEH	HICLE, PLATFORM TRUCK, JOSTS, FWHFB 40	6.14	No :	No	No	No
	RQUE CNVRTR ASSY,1951319001;BEML,80355	24.64	No	No	No	No No
TR/	ACK SHOE ASSY,130CT00268 BEML DOZER	20.42	No	Me		
TR/	ANSMISSION ASSY, 130TM01006 REMI, BO355	51,20	No	No	No	No
ENG	GINE ASSY,51Z0000022.BEML BD355	52.48	No	No	No	No
SCF	REW COMPRESSOR	23.13	No	No	No	No
TUF	RECCHARGER ASSY,10080193 DLW	50.78	No	No	No	No
CB	SF6:11KV:3150A;ABB	1.17		No	No	No
3PM	I,SCIM,90KW415V,1482RPM,280M,TEFC	6.30	No No	No	No.	No
MO	TOR 55KW, 1475 RPM.ND250M	1.22		No	No	No
SQ	CG MOTOR: 415V,180KW 8P V1 TEEC 315LV		No	No	No	No
MOT	TOR, SQ CAGE IND,415VAC,3PH,81,315L B3	4.53	No	No	No	No
MTF	R SQL 415V:200KW:4P-83,TEFC FR:315ML	5.00	No	No	No	No
MOT	TOR, DC JOP, 220VDC, S1 AUSZ60M, FLG, IP55	3,92	No	No	No	No
MOT	TOR,SGL SQ CAGE IND 3.3KV,D3158,B3	6.40	No	No	No	No
MOT	TOR, SQL SQ CAGE IND 3.3KV, 3PH, D355-98	14.50	No	No	No	No
MOT	TOR SGL SQ CAGE IND 3.3KV ILA7713.83 F	24.99	No	No	No	No
****	SALATINE HAD A SEATING TO SALAT	63.60	No	No	No	No

in order to meet the customers demand and maintain high machine availability at all times by the instant station, units/ equipment are taken under overhaul/ maintenance and inspected regularly for wear and teer. During such works, spaces parts of equipment's which became damaged/ unserviceable are replaced/ consumed so that the machine continue to perform at expected efficiency on sustained basis. Further as per Regulation 35(6) of TR 2019, capital spaces are admissible separately as part of OSM expenses. Therefore, it is prayed that the capital spaces consumed by the instant station during the period may please be allowed by Hon'ble Commission.

93	LBB RELAY MCTI140 TYPE MCTH40F1AK1001A	0.061	No	No I	- Carl	
94	NUMERICAL TRANSFORMS PROTECTION RELAY 1A	11.11		140	No	No
200		4.50	No	No	No	No
96	DISTANCE PROTECTION RELAY MICOM P442	3.09	No	No	No	1100
97	RELY NUM 220VDC: RET-830 ABB: ZAANBXA	10.33	No	No I	No	No
27	RELY NUM: 220VDC:REF-815,ABB:GNBA1BBN1XD	5.28	No	No	No	No
98	RELY NUM:220VDC:REM-615,ABB:GNBA1BBN1XD	8.61	No	No	No.	No
99	RELAY NUMERI GE MULTILIN F850	13.77	41.	3227	NU	No
100	RELAY NUM GENERATOR PROT SA 220/UDC	95.27	No	No	No	No
101	BATTERY RECHLEAD ACID 220V 980AM	34.96	No	No	No	No
102	ANALYZER, 0-200V. 0-50MA, 0.1MILL IHZ-10KHZ	22.30	No	No	No	No
103	PR/OP TRANSMTR -100-+800MM/WC	0.23	No	No	No	No
104	PRIOP TRANSMITE 0 - 1900MBAR	0.23	No	No	No	No
105	ABSOLUTE SHAFT & BRG VIBRATION MONITOR	0.10	No	No	No	No
106		0.10	No	No	No	No
	DUAL SEISMIC VIBR. MONITOR, MAKE SHINKAWA	0.19	No	No	No	No
107	CNI PG0-10 KG/CM2BRD 1/2" NPTBCK150MM	0.03	No	No	22500	190
108	[VALVE, SOL, HERION, 2334809, 1500, 024, 00.	8.71	No	No.	No	No
עטר	TIAC: K-TYPE HEAD TYPE DUPLEX BARRAY2845AMA	0.31	No	No	No	No
110	TVALVE,SQL,24VDC,2432581,1302,024.00	11.23	No	No No	No	No
331	IPH CONVERTOR: DSG-807112: WOITH TURRO	16.47	No		No	No
112	PNEU ACTUATOR 38/15", MAKE: MIL	0.86	No	No	No	No
113	ACTUATOR, HYD, ELECTRO, ADVANCE ACTUATOR	20.02	No	No	No	No
114	ANALOG INPUT MODULE AAI143-S00/K4A00			No	No	No
115		84.55	No	No	No	No
	LED BASED LVS SYSTEM MVL6715SXGA,BARCO	41,01	No	No	No	No
117	24V DC-DC CONVERTER, MODEL-200S	0.35	No	No	No	150000
111	MAX OPERATOR STATION	25.22	No	No	The same of the sa	No
	Total (A)	4.168.21		140	No	No
_	Total for Rihand-III station (II=A*2*500/(3*2*600))	1,389.40				77-1-10-10

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्त्रक (वालिदियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A. Sector-24, Nolda-201301 (U.P.)

ere est t		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d in respect of Capital Spa-	77			
	he Petitioner:	NTPC Limited	Anna Carrier and Carrier and Carrier				FOR
and the l	he Generating Station:	Rithand Super Ti	ermal Power Station Stage	-81			
il No.				0			
11, 1940.	Details of Capital Spares and Expenses in	2020-21		Funded			Arsount in Rs
1	Name of Spare	Value of the Asset	Claimed as a part of additional Capitalisation	Through Compensatory Allowance (II Applicable)	Funded through Special Allowance	Claimed as a part of stores and spores	21
2	350 NB CLI CHECK VALVE 0:10 KG/CM2 190 NB GATE VALVE CI BODY NP=1 FLANCED	0.02	No	NA.	No.	No	
3	CI GLORE VALVE SO NO RIGING SPINOLE TYPE	0.09	170	NA.	No	No	
4	REGULATING VIVIEND CCS WCB MO	0,10	710	NA.	Na	No	
5	200 NB CI GATE VALVE	5.31	No	NA.	No	No	
6	450 MM RISING SPINDLE TYPE G GATE VIV	0.05	No	NA.	No	No	
7	G.I SWING CHECK VALVE 400 NB (NRV)	0.03	No No	NA.	No	740	
8	BEARING EM-29496	26.29		NA.	No	No	
9	DEARING RLR SPHERICAL THRUST 294/750	96.60	No.	NA.	No	790	
10.	FLUID COUPLING COR-480 COMP ASSY	3.03	No	NA:	No	No	
11	FLUIDOMAY HED-Y COMPLETE ASSEMBLY	0.31	No	NA.	No	No	
12	FC:FLUIDQMAT:HFD-4:COMP.ASSY	0.64	No No	NA NA	No	No	1
3.	FC-FLUIDOMAT HFD-BR COMP ASSY	1.00	No	NA NA	No	No	4
4	FC:FUUIDOMAT HFD-9-COMP ASSY	0.60	No.	146	No	No	
2	FLUID COUPLING MODEL SC11A-FLUIDOMAT	18.49	No	MA,	Ma	No	4
12	CAMP UNLI, DAVID BROWN GEAR BOX 83-355	37.89	No	NA.	- No	Nu	
J.	COMP ASSY, ELECON, GEAR BOX KON250	25.10	No	NA.	filo	No	4
В	COMP ASSY ELECON GEAR BOX SENZSO (4.1	18.21	No.	NA.	No	No	4
9	COMP ASSY /PCT /GEAR BOX SR 32:2(12 93 1)	14.07	No.	NA.	No	No	4
D	GB ASSY R18.9/1.PETL R9 316 +	3.00	No	NA.	No	No	4
1	COMP ASSY PREMIUM ENERGY GEAR BOX 8000	71.10	No	NA.	No	No	4
6 2	COMP ASSY, PREMIUM ENERGY GEAR BOX RS,405	3.50	No:	NA I	No	No	4
3	ELECUNIBAWE-2340:COMP ASSY	0.93	No	NA I	No	74g	4
4	ELECON BZWE 3000 COMP ASSY	2.20	No -	NA NA	No	Na	4
5	COUPLING BLECON ED3200 COMPLASSY	1.37	NO.	NA NA	No	No	4
6	ELECDIN EDIGOO/COMP ASSY	1.19	No	NA.	No.	No	4
7	DIESEL ENG. DRIVEN CENTRIFUGAL PP SET	2.53	No		No	Nig	-
4	UH 600-2000-2-SJ COMPLETE CATRIDGE ASSY	22.43	No	NA NA	No	No	
9	PUMP ASSY, DH 540-1080-38	12.80	No	NA.	No	No	
0	CARTHIDGE ASSY DH 540-1080-38	20.93	No		No	No	
	COMPLETE VACUUM PUMP ASSLY W.O. MOTOR	85.16	No	NA NA	No	Np	-
	THRUST BEARING MITCHELL PUMP ENGLISO	15.65	142	NA.	No	No.	
	MPELLER, 1560:101, BHM-125	72.29	No.	234	No	No	4
1	BANSMISSION SHAFT, 1840101, BHM-125	11.40	140	NA NA	No.	Ng	4
5	HEAD SHAFT, 1850101, BHM-125	16.19	No	NA.	No.	No	4
	MPELLER SHAFT, 1890/101 JHM-125	15.87	No	NA .	No.	No	
	SUMP ASSEMBLY	6.80	Na	N4	No.	Mo	-
	COMPLETE ASSY PV140RE1K1T1VFHS	23.72	No	NA	No.	No	-
	CREW PUMP ASSY ROTO RMAA 701 ROCDIN	5.49	No	74A	No No	No	4
	UMP ASSY SAM TURBO AR 300/760 AM	25.63	No	NA		No	4
	A208 MPELLER	1,19	No	NA.	No.	No.	4.
	SZEJOD WATER RING VACUUM PUMP ASSY	23.58	No.	NA.	No.	No.	4
	SHAFT PUMP FRAESE	39.65	No	NA.	No	No.	4
	THRUST BRG ASSY, FIGURIA	11.79	No	NA.	No	No.	-
	P ELEMENT 16 16001581, COMPRESSOR 2R-365	45.42	No	NA.	No.	No No	1
	OT OR ORUM 1617505076 ATLAS COPCO ZR-290	20.07	No	NA.	No	No	1
	PELEMENT, 1616SR03M1, COMPRESSOR, 2R-300	43.72	No.	NA .	No	P40	1
-	R SERIES NO 1000 DRIER ROTAR DRUM	13.46	Nig	NA.	No.	F40	1
	CREW D. SMENT ASSY 45 003 250 00	2.53	No	NA NA	No.	140	1
0	CREW ELEMENT ASSY 46 001 880 00	18.56	No	NA .	No	No	1
	ONB-C-300-BW-MORRW COMP VV ASSYTHAT	2.10	No	NA.	No	No	1
10	C300-GV-BW-HWWO WCB COMP, VALVE ASSY,	1.28	No	NA.	140	No	1
	COMPLETE VALVE ASSY M279420WWPC	39,42	No	NA.	No	No	1
-	COY, R178/30881, HOPKINSON	9.63	No	MA	No	No	1
	NGLE DRAIN VLV ASSY, \$10+1487+101	7.16	No	NA.	No	No	1
	RH ERV INLET SOL VIV PART NO RO34 CO COIL LOWER ASSY	14,93	No	NA.	No	No.	1
	CAPITE CAT SO THE BOTH TOWN THE SECOND	531,49	No	NA.	No	No.	1:
- C	CUBLE CHT 22 TUBE ECO COL PAR ASSY	560.91	(40	NA:	No	No	In order to exact the contensor do
	OMPLETE DRUM SAFETY VALVE 1740 WB	3.97	No	NA	No	No	In order to exact the customers demand and
- 5	EARING RUNNER PLATE 4X500MW	10.00	No.	NA.	No	No	maintain high machine availability at all times
- 3	PRED REDUCER TYPE II COW SAPH-30	44.39	No	NA.	No.	No	The instant station, unital equipment are taken
	PEED REDUCER PAPH 500MW 27 6VM2000	36.25	No	NA	No		under overhaul/ maintenance and inspected regularly for wear and last. During such wort

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परिमर्श पीयुष/PARIMAL PIYUSH
अपड महाप्रबन्धक (प्राफिडियक)
Addl. General Manager (Commercial)
एन टी भी सी लिमिटेड/NTPC LIMITED
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

	Total for Rihand-III station (B=A*2*500(3*2*500))	1,791.07	No.	NA.	No	No
	Total	37.84 5.373.22	No	NA.	Nn	No
28	MAX OPERATOR STATION	79.63	No	NA.	No.	No
27	CONTROL PROCESSOR FCP270, MAKE FOXBORO	202.11	No	NA.	No	No
26	PROMAX TRIP POWER MODILLE EDB90295900A PLC SYSTEM WITH ACCESSORIES	0.51	No	NA:	No	No
25	PROMAX TERR DOWN MOD LONG 295922A	23.51	No	PAA.	NG NG	No
24	DRIVE CONTROL MODULE EDIS97295908A BHEL	12.92	No	744	No	No
23	UNIVE CONTROL MODULE ED 6922981898A	12.62	No	NA.	No.	No No
21	LUISTAL OF CARD MAXDNA JOPOST 8993013614	0.57	No	NA.	No No	No
20	DIGITAL INPUT 24 DC IOP335 EDecognong	1.43	No	NA NA	No No	Na
19	JANALOG INPUT MODULE FAAI143-RODWIAGO	21.14	No.	NA NA	No	No
18	ARCAA-COLLINS TRANSMTR MOL. ED6922959054	0.61	No No	NA NA	No	No
17	ACTUATOR PNEU 100NM 120 AN ARE STREET	20.02 17.05	Mo.	NA:	No .	No
10	ACTUATOR HYD. ELECTRO, ADVANCE ACTUATOR	0.51	No	NA.	No	No
15	ACTUATOR SASESDIGS125 WITH GEAR BOX	1.40	No.	NA.	No	No
16	AUMA POS TX ING-1002 2WIRE 4-20 MA 2W/DC ACTUATOR ELE, PART-TURN, 11RPM AUMA	2.20	No	NA:	No	No
13	ON LINE SOCIUM ANALYSER	16.59	No	NA.	Na	No
12	CONTROLLER STOCK GRAVINETHIC PERDER DT-9	467.28	No:	NA	760	No.
10	SWITCHLVL RESISTIVE 14PORT	95,34	No	NA NA	No	No No
09	IN CONVERTOR DSG-807112 VOTH TURBO	32.96	No	NA.	No No	No.
10	MOVING COIL,01142205000865 11.78 TURBINE	25.37	Na	NA NA	No	No
70	ON-LINE ANLAYSER FOR CO.002 BOX NOX	79.20	No.	NA NA	No.	No.
28	CONTROL PANEL ANNUNCILATOR	12.98	No.	NA.	No	No
16	RAPCON BHELESP ELECTRONIC CONTROLLER	2.75	No	NA NA	No	No.
4	PRICE TRANSMER IL TONIMBAD	21.03	No.	NA.	No	No
3-	ABT INERGY METER WITH CT/PT-1A/110V 220V	1.04	No	NA.	No	No.
2	BATTERY CHARGER SPH, 190V, 150 AMP	3.49	No.	NA.	140	No No
00	IBATTERY CHARGER: SPH, 48V, 400 A	5.20	No	NA	No	No No
9	NUMERICAL TRANSFORMS PROTECTION RELAY TA	5.49	No	NA.	No.	No
8	AFMR CURR OSKF-420,400kV,20VA,5	110.92	No	NA NA	No.	No
7	LATMIR PLIMER, 11KV, 2 3KV, 3-25MVA, 3PH, DVN11	28.91	No.	NA NA	No.	No
	CIRCUIT BREAKER SF6 132KV 2000A 1P	19.62	No.	NA.	No.	No
5	CROUIT BREAKER SEE 3 39 VOSSOV ANY A ADD	53.53	P40	NA.	No.	No
4	DOZER BINGINE 512000014 856 D170	392.18	No	NA.	No.	No
3	COMPLETE ASSY, KT-1150	2.30	740	NA.	No	No
0	COMPLETE DELUGE VALVE ASSEMBLY 150MM	2.30	740	NA.	No	No.
t	TRACK SHOE ASSY, 126CT00286, ISBN DOZER DELLIGE VALUE ASSEMBLY COMPLETE: 150VB	19.41	No:	NA.	No	No
0	TRANSMISSION ASSV. 1251 MB0029 RFMI, DOZER	47.53	No.	NA.	No.	No
B	ENGINE ASSY 5120000014 BLML DOZER 90-156	53.57	No	NA.	No	No No
17	8 PORT 10/100 MBPS ETHERNET SWITCH	0.69	No.	NA	No.	No
10	ENGINE ASSY 5120000022 BEMIL BROKS	53.53	No	NA.	No	No
15	TRACK SHOE ASSY, 130CT00258 BEW, DOZER	40.35	No	NA.	No	No
И	MAP 10000 COMPLETE ASSY	7.25 5.68	No No	NA NA	No	No
13	PVC-FILL PK:CF::/809X1829X305YTHK-0.3MM	158.39	No	NA.	No	No
12	PVC FILL PK CFS1216X1826X306FTHK-0-9660	831	No	NA.	No	No
81	400NB PLATE WV COMP ASSY IN SLURRY UNE	8.14	No.	NA NA	No	No
50	DRIVE AXLE WHERL F137829 ELECON EPC	7.76	No	NA.	No	740
10	DRIVE PULLEY	0.10	No	NA.	No	740
/B	ROTA SIDE HYDI CYLINDER	23.15	No	NA.	No	No
75	MAIN OIL PUMP IMPELLER PARNO, 3156377	14.28	No	NA.	No No	No No
73_	CONTROL FLUID PLMP ALONG WITH MOTOR	91.37	No	NA.	No	No
74	DP REGULATOR VALVE W90414901444 25VB	130.60	No No	NA NA	No	No
12:	INPER SPRAY VALVE E45S 10CM2 AREA	4.15	No	NA.	No	No
72	IP KEEP RING ASSY, M265(A)403(8)1 TO II	25.07 159.24	No	NA	No	Nu
71	IV VALVE CORE	12.60	No	NA NA	No	No
70	JOURNAL BRG ASSY D500X450,0119140200000 VALVE SPINDLE 1113203000009,8-ret.	79.87	No	NA NA	No	No
69	TOP/BOTTOM SHELL, R210(AO)(1985-6,ND	11.70	Na	NA	No	No
68	HPSV STRAINER R231M30681 WFIXING DOWELS	00.38	No	NA	No	No
	SPINDLEAREAD ASSY 01111120 HPGV	98.35	140	NA.	No No	No No
67		110.30	No	NA.		
86 86	ADJUSTMENT ASSY 0-55-334-0090(01/1 OBAN BOX ASSY BHEL, BOILER (RPL1005	45.96	No	NA.	No	No

aperso perts of equipment's which became demaged/unserwoodte are replaced/consumed so that the machine continue to perform at expected efficiency on australiand basis. Further as per Regulation 35(6) of TR 2010, capital spares are admissible depending as part of OSM expanses. Therefore, it is prayed that the capital spares consumed by the instant station during the period may please be altimed by Horribe. Commission.

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परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिविषक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Petitioner

Varme of	the Petitioner:		ted in respect of Capi				PAR
	the Generating Station:	NTPC Limited					FORM-
wanting Of	the Generating Station:	Rihand Super	Thermal Power Stati	on Stage-III			
SI, No.	Detelle of the least			1. 525 W. S. C.	The second second second second	Amount in Rs Lakhs	
di. reu.	Details of Capital Spares and Expenses in 2021-	22	Claimed as a part of	Funded through	Funded through	Claimed as a part	
	Name of Spare	Value of the	additional	Compensatory	Special Allowance	of stores and	Remarks
		Asset	Capitalisation	Allowance	- Process resonance	spares	
1	GATE V/V SIZE-250MM, NON RISING SPINDLE	0.93	No	NA.	No		- 12
2	BUTTERFLY VLV SIZE-350 MM API-609 PN-10	0.98		NA.	No	No	
3	GUIDE BRG (SP.ROLLER BRG 23080)	0.96		NA.	No	No	-
4	BEARING ROLLER, SPHERICAL, 294/560 EM	77.72	No	NA.	No	No	-
5	BEARING RLR, SPHERICAL THRUST, 294/750	45,35	No	NA.	No	No. No	40
6	FLUID COUPLING:CDR-480 COMP ASSY	6.06	No	NA.	No	No	42
-	COMP ASSY, PEMBRIL COUPLING, PST-530	10.14	No	NA.	No		48
8	COMP ASSY, PEMBRIL, COUPLING, 23SCR24R	9.87	No	NA.	No	No.	-
9	GB BONFIGLIOLI 313L2-25AF: COMPL ASSY	6.09	No	NA.	No	No No	43
10	GEAR BOX, DAVID BROWN, B2-200	80,63	No	NA.	No	No	4
11	COMP ASSY, DAVID BROWN GEAR BOX 83-200	19,26	No.	NA.	No	No.	-
12	COMP ASSY DAVID BROWN GEAR BOX 83-225	45.74	No	NA.	No		-
13	COMPLETE ASSY DAVID BROWN, GEAR BOX	17.40	No	NA.	No	No No	10
15	COMP ASSY, ELECON, GEAR BOX SBN280, 14:1	23.77	No	NA.	No	No	- er
16	COMP ASSY, PCT, GEAR BOX, SR 32 2(12 83:1)	9.32	No	NA.	No	No	
17	PET B3-280 COMP GEAR BOX RATIO-18 9/1	27.20	No	NA NA	No	No	4
	DH 600-2000-2-SJ COMPLETE CATRIDGE ASSY	11.22	No	NA.	No	No	1
18	CARTRIDGE ASSY DH 540-1080-3S	22.48	No.	NA NA	No	No	1
20	THRUST BRG#78-WEIR BFP-PR PUMP-FK4E38	5.56	No	NA.	No	No	-
21	SHAFT NUT,10500015,PUMP	78.73	No.	NA.	No	No	1
22	1800-MFB-V/S-SUSP MAIN	1.95	No	NA.	No	No	1
23	ROTATING ASSY KBL 8UP4FB	2.83	No	NA.	No	No.	
24	MUFF COUPLING,3450101,8HM-130	42.19	No	NA:	No	No.	
25	SCREW PUMP ASSY, ROTO, RMAA 701 R2CD3N	5.76	No.	NA.	No	No	-
26	PUMP ASSY, 10A 16 D	10.59	No	NA:	No	No	
27	PUMP ASSY ZM II 530/01	7.78	No	NA.	No	No	
28	ROTOR DRUM,1817505173,ATLAS COPCO	31.58	No	NA.	No	No	
29	HP STAGESELEMENT, 1616747281 ATLAS COPCO	54.73	No	NA.	No	No	
30	LP STAGE&ELEMENT,1618590481 ATLAS COPCO	64.69	No	NA.	No	No	1
31	3-C300-GV-BW-MO/HW-WCB:COMP, VALVE ASSY:	0.50	No	NA NA	No	No	
32	3-C150-GV-HW-BW-WCB-COMPLETE VALVE ASSY.	3.10	No	NA.	No	No	
33	FLUID DRIVE HYD CPLG 36SCR24R 960RPM	13.91	No	NA.	No	No	
34	ECO INLET HDR DRAIN-RES VV PART NO E021	4.06	No.	NA:	No	No	
35	WALL BLOWER ASSY:	4.02	No	NA.	No	No	
36	DRUM EMERGENCY DRAIN B115 BHEL BOILER ERV, 1538VX-10W,	8.34	No	NA:	No	No	
37	SPEED REDUCER,0-52-100-02055,8HEL	6.39	No	NA.	No	No	
38	SPEED REDUCER,0-52-100-02055, BHFI	11,32	No	NA.	No	No	
39	FLUID COUPLING 12 78 FCU	11.32	No	NA.	No	No	_
40	GEAR BOX SHANTH, TYPE-IA, 3 INPUT, UPSHAFT	1.29	No	NA.	No	No	
41	GEAR BOX TYPE-IL3 INPUT DOWNSHAFT	96,91	No	NA.	No	No	100
42	OVERRUNNING CLUTCH ASSEMBLY FOR APH	83.70	No	NA	No	No	
	SPEED REDUCER TYPE-ILCCW,SAPH-30	2.04	No	NA.	No	No	
44	SPEED SERVICES OARD CONTRACTOR	41.85	No	NA.	No	No	
45	SPEED REDUCER PAPH 500MW 27 5VM2000	88.55	No	NA.	No	No	
46	HE SECTOR PLATE ASSEMBLY FOR PAPH	20.45	No	NA.	No	No	
47	BARRING GEAR ASSY,452/03,HOWDEN	59.31	No	NA.	No	No	In order to meet the customers demand
48	ROTOR ASSY, 1.06,00(B)1,BOILER,500MW SERVO MOTOR,FD	135.90	No	NA.	No	No.	and maintain high machine availability at
40	SERVO MOTOR, FD	28.13	No	NA.	No		times by the instant station, units/
50	HYD ADJ DEVICE,0-55-215-01109804	48.03	No	NA NA	No	No No	equipment are taken under overhaul/
51	ROTOR ASSY BOILER, SOOMW	100.52	No .	NA NA	No	No.	maintenance and incommunity overhauf
52	ADJUSTMENT ASSY,0-55-334-009600171	46.98	No	NA	No.	No No	maintenance and inspected regularly fo
52	M.A. TI PORT ASSY 614000011.03.01 G 8HEL	111.98	No	NA NA	No		wear and tear. During such works, spare
0.0	GEAR BOX ASSY, BHEL BOILER, XRP-1003	110.30	No	NA	No No	No No	parts of equipment's which became damaged/ unserviceable are replaced/

Page 95 of 169

54	BELT DRIVE REDUCER SWM150V150R 500MW	7.72	No		-	
56	PRING 010506090000002	1.08	No.	NA	No	No
57	RING 01050609000/001	3.58		NA.	No	No
	FRONT BEARING D250X180 DRG01180418000-00	44.90	No	NA.	No	No
58	DELTED PILOT HPCV 01140205400 (TEM 40)		No	NA.	No	No
59	ICONT VV S.MTR-COMPLETE ASSO	1,71	No	NA:	No	No.
60	IEV320-1:PRE CONTROL VALVE COMPLETE AGENT	48.38	No	NA.	No	No
51	10-SEALING KING MACHINED 01050106000K	0.56	No	NA:	No	No
62	TO SEALING RING 01050109000/5 FINIMALOUANIES	9.50	No	NA.	No	No.
63	[S100.01050209000/S BHEL	13.87	No	NA NA	No	No
84	RING.01050609000/1 RHF1	0.49	No	NA.	No	No
65	U-SEALING RING UNMACHINED 210515410000	14.66	No	NA.	No	No
55	IDP CV SERVUMOTOR COMPLETE 0.31400 41000	0.33	No.	NA.	No	The second secon
57.	DEAL HOUSING 81060627000K RHEI	4.31	No	NA.	No	No
38	ISEALING RING ASSY 0106082700077 BUEL	26.08	No	NA.	No	No
59	ISHAFT, AO-104873, REP EK-4ESE	11.14	No:	NA NA	No	No
70	THRUST BEARING 1/30771-0009281 K1404-2	25.83	No	NA.	No	No
1	COMPLETE CARTRIDGE ASSY BUEL DOONG 9 49	8.47	No	NA.	No.	No
2	POULOR ASSY M04204/28/39 ETM/48, 840	8.11	No	NA NA		No
3	CARRIAGE WHL ASSY F12913/0, PFT1C4H6M1.4	76.19	No	NA .	No	No
4.	AXIAL PISTON PUMP, R902577511, REXROTH	9.15	No	NA I	No	No
5	1125MTPH:TRAVEL DRIVE GEARED MOTOR	29.47	No	NA I	No	No
6	1408:ND PULLEY DXL 690X1500 SHAFT D125	1.84	No	NA.	No	No
7	1500TPH:HYDRAULIC LUFFING CYLINDER	1.78	No	NA.	No	No
8	MAG SEPARATOR ASSOCIATING CYLINDER	78.82	No	NA.	No	No
	MAG SEPARATOR ASSY, ERIEZ, SE776 SC-1	53.10	No	NA NA	No	No
0	COMPLETE GEARBOX ASSEMBLY TYPE KAN 315	32.92	No		No	No
1	PVC FILL PK:CF:(1216X1829X305):THK-0 3MM	182.95	No	NA NA	No.	No
1	PVC FILL PK:CF:(869X1829X305); THK-0:3MM	25.30	No	NA NA	No.	No
3	VEHICLE PLATFORM TRUCK JOSTS FWHFB 40	12.14	No	The second secon	No-	No
1	TORQUE CNVRTR ASSY 1951319001, BEML BD355	6.08	No	NA.	No.	No
	TRACK SHOE ASSY,130CT00268,BEML,DOZER	21.75	No	NA NA	No	No
8	HYDRA CRANE 12 MT CAP.	25.84	No	NA NA	No	No
7	SCREW COMPRESSOR, 11.145 14.321 KBL	14.16	No	NA.	No	No
8	CYLINDER HEAD FOR WOGSA LODGS/10040282	1.94	No	NA.	No	No
	INCOMPROASSLY CVI HEAD 354 DILLIO	4.66		N.A.	No	No
1	ACR 2500A 3POLE ELECT OPRAT STOR ENEG GE	1.23	No	NA.	No.	No
2	INVO SZUJA JP ELCT OPRT STORED ENCOG OF	2.53	No	NA.	No	No
-	1553 AUS 1600A, 3 POLES 4150	1.86	No	NA NA	No	No
1	SENSOR: WAVE TRAP - 400KV 1MH,3150A	19.65	No	NA NA	No	No
	AFMIC POWER 400KV 21KV 200MUA DVW4+ DEAE	831.90	No	NA.	No	No.
	AFMR_CURRE DSKF-420.400607.0m/4.4		No	NA.	No	No
	RELAY, NUMERIC/DIGITAL 220UPC SHEMENS	6.43	No	NA.	No	No
V (-1	KELAY, UISTURBANCE RECORDED 33M/O/C (FILES)	8.78	No	NA NA	No	No
	DOLLERY RECH NI-CD 1 20 STSAIN	6.20	No	NA .	No	No
	BATTERY, RECHINICO 1.2V 891AM	128.00	No	NA.	No	No
	CHARGER BAT 3PH 220MOC 1380A	39.61	No	NA.	No	No.
	ABT ENERGY METER WITH CTIRT AAUGUSSOM	16.21	No	NA.	No	No
	PANALTZER 1.5-10000/ \$-8004 ALD 485	2.08	No.	NA.	No	
0.1	CONTROL PANEL ANNUMENTATOR	4.09	No	NA .	No	No
27.	VALVE SQL 24VDC 2432585 1952 024 00	12.98	No	NA.	No	No
	MAXBUP PR. TRANSMITTED # (A490AF96445050	11.23	No	NA NA	No	No
	24V DG-DC CONVERTER MODEL 9ASSE	0.63	No	NA.	- No	No
	PROCESSOR MODULE CP451-10, YOKOGAWA DCS	0.26	No.	NA		No
- 1	Grand Total	24.20	No	NA NA	No	No
	Total for Rihand-III station (B=A*2*500/(3*2*600))	3653.06	No	NA	No	No
	Total for remaind-fill station (B=A*2*500/(3*2*500))	1,217.69		1975	No	No

consumed so that the machine continue to perform at expected efficiency on sustained basis. Further as per Regulation 35(6) of TR 2019, capital speres are admissible separately as part of D&M expenses. Therefore, it is prayed that the capital spares consumed by the instant station spares consumed by during the period may please be allowed by Honble Commission.

परिमदा पीयुष/PARIMAL PIYUSH (Petitioner) अपर गहापबन्धक (वाणिक्यक) Addi. General Menager (Commercial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

					es	sect of Capital Spa-	to be Submitted in res		_
RTJ	PAR						NTPC Limited	Name of the Petitioner	_
- 17	FORM-					Downs Otables St.	Rihand Super Thermal	Name of the Generating Station	
	-1-200				e-III	rower station stag	The state of the s	Date of the second	SL.
			unt in Rs Lakhs	Amos	-	Claimed as a part	22-23	Details of Capital Spares and Expenses in 2	lo.
			Claimed as a	unded through	Funded through	of additional	20162		-
		Remarks	pert of stores	Special	Compensatory	Capitalisation	Value of the Asset	Name of Spare	1 1
- 1			and spares	Allowance	Allowance		40.24	ALVE GL RISING SPINDLE IS10805, BW, 65MM	2 1
			No	No:	NA.	No	18.80	BEARING, ROLLER, SPHERICAL, 29495-EMB LUID COUPLING COR 480 COMP ASSY	3
			No	No	NA NA	No No	3.03	C:FLUIDOMAT HDF-7:COMP ASSY	4 1
- 1			No	No	NA NA	No	0.96	COMP ASSY, FLUIDOMAT, COUPLING, SC-10	5 6
- 1			No	No	NA.	No	16.59	COMP ASSY, FLUIDOMAT, COUPLING, SC-14	1
- 1			No	No	NA.	No	20.00	COMPLETE ASSY, DAVID BROWN, GEAR BOX	0
			No	No.	NA NA	No	17.40	COMP PART ELECTIVIDE AR BOY NO MOULES	
- 11			No	No	NA NA	No	14.60	WHITE POST ELECTINGEAD DOV CONTROL	
- 1			No	No	NA NA	No	33.27	LON DUA ANNY THIRDE OF ARE MAN PORTON	w 150
- 1			No	No	NA NA	No	73.65		
			No	No	NA NA	No:	46.59	OMF GOST PREMERA EMERCY CEAR DOWN	
- 1			No	No	NA	No	35.55	OWNER ADOLD PRESENT BY EAST DOWNER AND ADDRESS.	
- 1			No	No	NA.	No	8,99	ONE FIGGE LIFE SQUEEN NO.	
			No	No.	NA.	No	43.19	HRUST BRG#7R WEID DEG OD BURED TO THE	T
			Mo	No	NA	No	5.58	CPATURAS, TUROUDICIZAÇÃO DE MAIO	1 1 1 1 1
- 1			No	No No	NA	No	31.62	OTATING ASSY FLOWMORE PLIMB ECONE	H
- 1			No.	No.	NA	No	9.58	CUMPNICAL SEAL FACILE BUILDING BUILDING	1190
- 1			No	No	NA.	No	29.13	JMP ASSY KAKATI KW -760	P
- 1			No	No	NA.	No.	46.16	JMP ASSY UP 200/38	IIIPI
			No	No	NA	No	8.21	OMPLETE PUMP ASSY, ST.4MD 80/2050MAKE	C
-1		*	No	No	NA	No	2.61	7MF PIDG 1.01U 1/M	- P A
- 13			No	No	NA.	No	14.78	JMP ASSY, SAM TURBO AR-300/750 AM	P
- 1			No No	No	NA.	No	24.30	MP ASSY, SAM TURBO, BA20B	PL
١.			No	No	NA.	No	10.15	IMP ASSY, ZM II 530/01	FK
			Np	No	NA.	No	7.78	4E36 DE BEARING JOURNAL	FK
E			No	No	NA.	No	3.08	4E30: NDE JOURNAL BEARING	PI
4	4		No	No	NA.	No	27.10	MP ASSY, SDC 250/350	DIE
N.	n n		No	No	NA .	No	124.84	SPOSAL PUMP ASSY WARMAN, 14/12GAH 8TC: COMPLETE ASSY	Et
TA	1		No	No	NA.	No	14.70	D STAGE CYLINDER A STAG	200
25	E		No.	No	NA.	No	16.30	D STAGE CYLINDER 2-01-433B COMPRESSOR REW ELEMENT ASSY 48:001-880:00	50
F	परिमाल मीमूल/२०		No	No	NA	No. No	49.41	MPRESSOR ASSY, KPCL, ZHAZTERT	100
6 1	1 h		No	No	NA.	No.	45.52	I'E GATE W V ASSV 12400404 WERE SALES	LIDITY
61	EE		No	No	NA NA	No	19.62	TE WATE VILV ASSV AT ALTERS FORGER	10.004
10	P. 3		No	No	NA.	No	25.64	MPLETE VALVE ASSV APPROPRIATED	160
	B 9		No	No	NA.	No	90.31	DT. PROVIZENT HORKINGON	1000
18			No	No	NA NA	No	6.92	D INLET HOR DRAIN RECYMPARY WE SHOW	120
1~			No	No	NA I	No	4,06	THE TOUS MAIN LINE DADT NO COSA	1500
			No	No	NA NA	No	5.47	LL BLOWN R ASSV	IVAN
1			No	No	NA	No	6.03	JM EMERGENCY DRAIN BASE PURE PROVIDE	DRI
1	- 1		No	No	NA NA	No	4.17	MELLIE ORGUN SAFETY UNI DE 4740 MAS	100
1			No	No	NA	No	10.44		
1			No	No.	NA NA	No	12.00	/_1538VX-10W	ERV
1	- 1		No	No No	NA.	No	34.80	CTRO RELIEF VALVE DUEL 1504 LOCA	ELE
1-	1740		No	No	NA NA	No	7.37	VE CTRL A217-W/C6 CL2600 200 Labor 200	IVAL
1	V	22	No	No	NA	No	13.34	16 SEAL SET 2/52/164/11075 DOM:	15.000.00
N		-	No	No No	NA.	No	0.36	ASS SEAL SET 2.42.055.01164.0517	BALL
1 /		customers demand and main	No In order to meet the	No No	NA.	No	0.93	MAL SEAL SET 1.52.013.03404 (0.00)	INSPAIL
1/	entein	customers demand and main bility at all times by the instant	No high machine avail	No No	NA.	No	7.17	U. SEAL PLATE FAMOU ADM	BACK IN
	ant	nent are taken under overhau	No station units/ equic	No No	NA.	No	6.70	RING SI FEVE ALLOSON HOMBERS	BEA
~	auti l	pected regularly for wear and	No maintenance and in	No	NA .	No	33.04 244.43	OR ASSY 0-55-334-01380524 BHF L	MOT

53			100			
_ 54	BLADE SET,PAF 19/10.6-2,1-00-100-21759&7	85,34	No	NA.	No.	No
55	WORM GEAR & SHAFT SET OF COAL MILL	59.09	No	NA.	No	No
. 56	JOURNAL SHAFT ASSY FIXED 1003 ME I	117.99	No	NA.	No	No
57	BELT DRIVE REDUCER SWM150V150R,500MW	591.99	No	NA.	No	No
58	RING 01000609000/002	24.74	No	NA.	No	No
. 59	U-SEALING RING UNMACHINED (1/05/1/19000/2	1.08	No	NA.	No	No
60	U-SEALING RING MACHINED 0:050109000/S	32.75	No	NA.	No	No
_61	U-SEALING RING MACHINED 01050109000/7	5,90	No	NA.	No	No
62	U-SEALING RING MACHINED 11051409000/6	13.13	No	NA.	No	No
63	IP CONTROL VALVE ASSY 11132236000000	19.68	No	NA.	No.	No
64	IDP REGULATING VALVE	200.17	No	NA .	No	No
85	AIR SIDE SEAL OIL PUMP SET AC TRETERINA	16.13	No	NA:	No	No.
66	EMENGENCY GOV ASSY DRC 04162706500.0	5.37	No	NA.	No	No
_ 67	FULLOW UP PISTON HYD AMP 01142305000800	2.62	No	NA.	No	No
68	GEAR BUX BW TUBFP TURBINE & ROOSTEP OR	43.70	No	NA.	No	No
69	DRIVE SHAFT ASSY 1 TO 11 PAHARPHR HD c o	24,19	No	NA.	No	No
.70	1901 TOM CONSEPANION REGEN UNIT (ARIA COLL	6.53	No	NA.	No	No
71	IGENTRIFUGAL SEPARATOR OIL CLEANER	81.03	No	NA.	No	No
72	IPLATFORM TRUCK MNT HYD AFRIAI	24.78	No.	NA.	No	No
73	TRACK SHOE ASSY, 130CT00268 REMI, DOZER	40.00	No	NA.	No	No
74	ENGINE ASSY,51Z0000014 REMI DOZER RD 455	21.75	No	NA.	No	No
_75	IDELUGE VALVE -100 NB	53.57	No.	NA.	No	No
76	DELUGE VALVE ASSEMBLY COMPLETE, TROMP	0.70	No	NA.	No	No
7.7	DELUGE VALVE ASSEMBLY SIZETON NO	0.86	No	NA.	No	No
78	DELUGE VALVE ASSEMBLY SIZE BO NO	3.66	No	NA.	No	No
79	COMPLETE DELUGE VALVE ASSEMBLY 150ANA	1.67	No	NA.	No	No
80	DLWSPR ASSLY CYL HEAD 251 PLUS	0.77	No	NA.	No	No
81	CB SF6:11KV:3150A:AR8	9.32	No	NA.	No	No
82	CIRCUIT BREAKER SP6 400KV 4000A 3AT3.1	4.78	No	NA.	No	No
83	IMOTOR, SGL SO CAGE IND 3 3KV DP400E3 4B	63.89	No	NA.	No	No
84	IMOTOR, SGL SQ CAGE IND 3 3KV DCA40UB00 4P	20,58	No	NA.	No	No
85	AFMH, POWER 400KV 21KV 200MVA DVN11 OF AF	7.12	No	NA.	No	No
85	APMR, CURR: OSKF-420 400KV 20V/A 5	1,892,72	No	NA.	No No	No
87	XFMR, POT, CAPACITIVE VOLTAGE 400000110V	262.72	No	NA.	No	No
88	CONTROL RELAY	13.18	No	NA.	No	No
89	RELAY NUMERIC/DIGITAL SA 7UT SIEMENS	2.14	No	NA.	No	No
90	ABT ENERGY METER WITH CT/PT-1AC1/W 2504	15.08	No	NA.	No	No
91	13 PH POWER QUALITY ANALYZER WITH COUNTED	8.32	No	NA.	No	No
82	COMPLETE ACTUATOR TYPE ASM 63	4.20	No.	NA.	No	No
83	ACTUATOR, HYD. ASM250-10 CC1	9.70	No	NA.	No	No
94	ACTUATOR HYD SULZER ASM100.10	27.14	No	NA.	No	No
95	CONTROLLER STOCK GRAVIMETRIC FEEDER DT 0	14.67	No	NA.	No	No
96	INCTUATOR, PNEU A48FKZ RLAKEROROUCH	22.25	No	NA .	No	No
97	JACTUATOR, PNEU GS 700-100 RA CORES VILLON	22,30	No	NA:	No	No
88	JAC TUATOR, PNIEU GS 700-100 DA COPES VILLOAN	13.38	No	NA.	No	No
99	PAG TUATOR, PNEU, SD-700-1881 LDA	13.38	No	NA NA	No	No
100	PNEU ACTUATOR MOL 38-41024 SIZE 15" MIL	31.80	No	NA I	No	No
101	ANALYZER WATER SILICA 6-5000PPB	0.57	No	NA.	No	No
1102	ELECTRICAL ACTUATORS COMPLETE ACTUATOR	21.24	No	.NA	No	No
103	IFIELD CONTROL MODULE AFV30D-S41464	1,74	No	NA.	No	No
104	ICHANNEL ISO EXT SOURCE DO MODULE: FOREST	199.80	No	NA NA	No	No
105	FIBER OPTIC PREPATION TOOL KIT	1.20	No	NA.	No	No
Sec.	Grand Total	2.67	No	NA.	No	No
	Total for Rihand-III station (B=A*2*500(3*2*500))	5,543.51	No	NA.	No	No
	m similar (D-H 2 Self(3-5,200))	1,847.84				740

Interesting securing year surply a securing on a regularities. consumed so that the machine continue to perform at expected efficiency on sustained basis. Further as per Regulation 35(6) of TR 2019, capital spares are admissible separately as part of O&M expenses. Therefore, it is prayed that the capital spares consumed by the instant station during the period may please be allowed by Hon'ble Commission.

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (द्वाणाज्यक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) \* 108

	Manager 19 and 1		in respect of Capital S	and the same of th		
	Name of the Petitioner	NTPC Limited				
	Name of the Generating Station:	Rihand Super Themse	Power Station Stans	-10		4
St. No.	Details of Capital Passes 19		- Stage			
	Details of Capital Spares and Expenses in 2 Name of Spare	2023-24	Claimed as a part of	Funded through		Amount in Rs Lakt
1	MOVING BLADE LP 3R DRG 01030741000-7	Value of the Asset	additional Capitalisation	Compensatory Allowance (If Applicable)	Funded through Special Allowance	Claimed as a per of stores and spares
2	MOVING BLADE LP3L DRG 01030741000-7	308.45	No			
3	THOF 115 500 MW GENERATOR ROTOR (BHEL)	308.45	No No	NA.	No	No
4	DRUM SAFETY VALVE 1740 WB	3,953.00		NA NA	No	No
5	SH SPRAY BRANCH BLOCK VALVE, SD4	24.00	No	NA.	No	No
6	SUPER HEATER SPRAY CONTROL VALVE BHEL	4.37	No No	NA.	No	No
7	1400:ND PULLEY DXL630X1600 SHAFT D150	29.68	No	NA.	No	No
8	DAVR:R2 SMPS 80-260VAC, 220V-24V DC 10A	2.26	No.	NA NA	No	No
9	SHE3 SIZE 1620MA-COMP CZEV-24V DC 10A	0.79	No	NA.	No	No
	SHF3, SIZE: 162MM:COMPLETE MECHANICAL SE XFMR:CURR: OSKF-420,400KV:20VA,5	22.50	No	NA.	No.	No
11	IN-MOTION WEIGH BRDG 140 MT	13.83	No	NA NA	No	No
12	COMP ASSY PCT GEAR BOX SR 32 2(12 90:1)	63.72	No	NA.	No	No
13	BEARING PART NO 68 CLYDE UNION PUMP	9.32	No	NA NA	No	No
14	SHAFT NUT, 10500015, PUMP	31.82	No	NA.	No	No
15	COMP ASSY, FLUIDOMAT, COUPLING, SC-10	157.47	No.	NA.	No	No
16	RELAY PANEL	20.11	No	NA.	No	No
17	TRANSMISSION ASSY, 130TM01009, BEMIL BD355	7.08	No	NA	No	No
18	COMP ASSY FLUIDOMAT, COUPLING, SC-14	44,18	No No	NA .	No	No
19	BUS CONTROLLED MODILIE STEELING, SC-14	84.58	No.	NA NA	No	No
20	BUS CONTROLLER MODULE: FEMTIO, FOXBORO	0.48	No No	NA NA	No	No
21	CONTROL PROCESSOR: FCP270, MAKE FOXBORO COMP ASSY PEMBRIL COUPLING 21SCR24R	0.71	No	NA .	No	No
22	CYLINDER BABCOCK MOXEY BM12501500	12.58	No No	NA	No	No
23	ROTOR DRUM 1617601077 ATT 1500 1500	119.25	No	NA.	No	No
24	ROTOR DRUM, 1617505078 ATLAS COPCO, ZR-250	60.20	No No	N/A	No	No
25	HP STAGESELFMENT, 1816747281, ATLAS COPCO	18.24	No	NA .	No	No
26 .	LP STAGESELEMENT, 1616590481 ATLAS COPCO JOURNAL SHAFT ASSY, FIXRP 1003 MILL	32.35	No No	NA.	No	No
27	ROTOR ASSY,M07219/1,EKK 48X114	52.77	No	NA.	No	No
29 8	SHAFT, 12.02.01.01, FLSMIDTH	86.90	No	NA.	No	No
29	PINION+SHAFT ASSY 05.03.03.23 FLSMIDTH	9.09	No	NA.	No	No
30 /	ACB 1600A 3 POLE ELECT OPRIO GE MAKE	9.89	No	NA	No	No
31 F	AN BLADE ASSY,04-21-0043/M/16 REV+	1.32	No.	NA	No	No
32 (	COMP ASSY, PCT, GEAR BOX, SR 12 2(12.03.1)	8.25	No	NA.	No	No
33 E	NGINE ASSY, 51Z0000022, BEML, BD955	9.32	No No	NA.	No.	No
34	OIST, FLECTRIC OPER 0.51-1TON 5.01-10M	133.82	No	NA NA	No	No
35 1	OIST ELECTRIC OPER 3.01-4TON 5.01-50M	6.52	No	NA.	No	No
36 H	OIST, ELECTRIC OPER, 4.01-5TON, 65, 01-50M	23.78	No	NA	No	No
37 H	OIST, ELECTRIC OPER.0.51-1TON,20.01-25M	6.05	No	NA.	No	No
38 H	OIST ELECTRIC OPER 0.51-1TON 20.01-25M	3.71	No	NA	No	No
39 E	L OP. HOIST 4.01-5.0T:ELECT HOIST SMT	3.41	No	NA.	No	No
40 E	L OP, HOIST-4.01-5.0T-LIFT 10.01-15M	9.05	No	NA.	No	No
41 E	AN BLADE ASSY 04-21-0043/M/16 REV+	18.17	No	NA NA	No	No
42 P	OWER SUPPLY UNIT FOR MASTER CLOCK SYS	16.42	No	NA.	No	No
43 P	UMP ASSY SAM TURBO 8420B	0.48	No	NA.	No	No
		10.00	The state of the s	NA	No	No.
	ONTROL PROCESSOR, COMPANY	3.98	No	NA.	No	No
46 D	ONTROL PROCESSOR: FCP270, MAKE: FOXBORO	0.54	No No	NA.	No	No
100	SMILESSTELLINGEIMAT CONTINUE CO. 141	2.90	No	NA.	No	No
18 C	OMP ASSY FLUIDOMAT, COUPLING, SC-10	20.11	No	NA.	No	No
19 B	ONSEP BOTTOM, DWEL/CPU/REGN/001, ORIPLEX	84.96	No	NA.	No	No
100	21 TUM CONSEPTANION RECENTING ARCS OF	83.54	No	NA.	No	No
7111	LTING PAD,41778/127, HAYWARD TYLER		No	NA .	No	No I
		5.96	No:	NA:	No	No

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्द्राव (दावित्वाक) Add, General Manaper (Commercial) एन दी भी भी लिगिटेड /NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

PART-I FORM- 17

Remarks

1 5	I	10	5 -
2	28	5	1 2
2	- 60	I MA	301
	涯	P. C.	201
ž	E	3 5	olde
00	State	10	ž
P	Total Inches	#	Ž
100	1813	# #	NACT.
45	584	G 42	
E	F B	D 4	8
#	-	E 20	

51	BEARING ASSY,0S-2405,HOWDEN	de est		1		
52	BEARING SLEEVE 64100600 HOWDEN	88,50	No	NA.	No	No
53	IVFD - 7.5KW, 415V, FOR RC FEEDER	33.04	No	NA.	No	No
54	JHEAD PULLEY ASSEMBLY/RC/I)	2.60	No	NA NA	No	No
55	IVEE BEE 250NB DUPLEX FILTER ASSV	1.29	No	NA.	No	No
56	IELECON ED-8400 COMP ASSY	40.38	No	NA.	No	No
57	COMP PUMP ASSY 124 108 DELTACHOUS	4.51	No	NA.	No	No
58	ICOUPLING ELECON FD3200 COMPLACEV	23.17	No	NA.	No.	No
59	BUS CONTROLLER MODULE: FEMANO FOXBORO	1,37	No	NA.	No	No
60	IDISCRETE UP MODULE FRM217 MAKE ENVRORG	0.48	No	NA.	No	No.
61	CONTROL PROCESSOR: FCP970 MAKE FOVEORS	0.56	No	NA.	No	No
62	DIGITAL OF MODULE: FBM237 MAKE FOYBORO	0.71	No	NA.	No	No
63	COMP ASSY, FLUIDOMAT COLIPLING SC. 14	0.38	No	NA.	No	No
64	ISULATOR 420KV 2000A HADAAI	54.58	No	NA.	No	No
65	U-SEALING RING MACHINED 1105140 popula	138.91	No	NA.	No	No
66	ARRNG OF JRNL BRG. D450X450 1118184100080	19.66	No	NA:	No	
67	COMP ASSY, PREMIUM ENERGY GEAR BOX 8250	74.37	No	NA.	No	No No
68	SERVOMOTOR 01323505000000 BHELLORH NEV	24.54	No	NA.	No	No
69	FLUID DRIVE HYD CPLG 38SCR24R gender	6.22	No	NA.	No	
70	TRUE 115/300 MW GENERATOR ROTOR (RUE)	15.72	No	NA.	No	No No
71	MUFF COUPLING, 3450101, BHM-130	3,953.00	No	NA.	No	
72	U-SEALING RING UNMACHINED 2105184400202	95.14	No	NA.	No.	No
73	U-SEALING RING 01050109000/5 LIMMACHINED	4.27	No	NA.	No	No
74	U-SEALING RING MACHINED.010501090007	5.90	No	NA.	No	No
75	U-SEALING RING,01050109000/33,MACHINED	3.93	No	NA.	No	No
76	BEAHING SEGMENT 3610101 RHM-126	8.12	No	NA.	No	No
77	COMP ASSY PREMIUM ENERGY GEAR BOX 83-400	25.81	No	NA.	No	No
78	PILOT VALVE ASSY, DRG 01230725600-09	3.50	No	NA.	No	No
79	TRANSMISSION SHAFT, 1840101, BHM-125	0.78	No	NA.	No	No
80	MPELLER SHAFT, 1860101, BHM-125	11.92	No	NA.	No	No
81	MOVING COIL 01142205000&65.11,70 TURBINE	16.60	No	NA.	No	No
82	8 SHFT PP ASSY SS-CF8M,EDWARDS SHR22500	13.24	No	NA.	No	No
83	ROTOR, 270/3.3KV/0355-9B/4P MARATHON	130.88	No	NA NA	No	No
84	COUPLING BOLT M64 DRG 11183341000-001	11.59	No	NA.	No	No
85	OVERRUNNING CLUTCH ASSEMBLY FOR APH	5.99	No	NA I	No	No
85	PUMP ASSY UP 200/38	3.07	No	NA.	No.	No
87	ANALYZER, WATER, PHOSPHATE, 0.2-10PPM, 4CH.	9,47	No	NA.	No	No
88	HYDRAULIC PUMP R902217898 REXROTH	25,96	No	NA.	No	No
89	TURBO SUPERCHARGER, 10083479, LOCOMOTIVE	9.98	No	NA NA	No	No
90	CONT VLV SERVOMOTOR R222(A0)1177,NEI	51.75	No	NA NA	No	No
91	AIR MOTOR-SAPH-IPM400	71.32	No	NA I	No	No
92	HP ELEMENT, 1616580381, COMPRESSOR, ZR-900	3.36	No	NA.	No.	No
93	LP ELEMENT, 1616630581, COMPRESSOR, ZR-355	22.05	No	NA.	No	No
94	TSI SERVER	92,48	No	NA.		No
95	SEALING RING MACHINED 0106122700083, RHEL	26.29	No	NA.	No.	No
96	U-SEALING RING MACHINED 010501090000/3	18.15	No	NA	No No	No
97	PUMP ASSY, DSM 80/36	33.97	No	NA I	No	No
98	OFC TO ETHERNET MEDIA CONVERTOR STANDARD	6.83	No	NA	No	No No
99	COMP ASSY, PCT, GEAR BOX, SR 32 2(12.93.1)	0.05	No	NA.	No	No
00	HYDRAULIC PUMP R902217896 REXROTH	31.28	No	NA.	No	No
01	SHAFT, BHEL SPEED REDUCER, R52290340003	10.76	No	NA NA	No	No
02	SHAFT BHEL SPEED REDUCER, R52290390003	10.51	No	NA.	No.	No No
03	VH CONVERTER, 43971120, VOITH TURBO	7.96	No	NA	No	No
04	SHAFT DEARING ACCUSES THE STATE OF THE STATE	8.24	No	NA NA	No	No
06	SHAFT BEARING ASSY 0-55-215-01109&1,BHEL	15.48	No	The state of the s	No	No.
06	BELT DRIVE REDUCER SWM150V150R,500MW	7.72	No	NA:	No	No
07	BEARING HOUSING 0-55-335-00374 BHEL	49.17	No	NA WA	No	No
08	SEAL OIL PUMP, TUSHACO, T3S52/54	7.63	No	NA NA	No	No
09	SHF2/135 COMP.MECH SEAL ASSY.	22.31	No	NA.	No	No
10	ELECTRO RELIEF VALVE BHEL 1525-VX-3	33.25	No	NA.	No	No.
140	HOIST H-02 CAP 2MT, LIFT 13M , 223-22SH	3.60	No	NA.	No	No
			140	NA I	Mix	

in order to meet the customers demand and maintain high machine availability at all times by the instant station, units/ equipment are taken under overhaul/ maintenance and inspected regularly for wear and tear. During such works, spares parts of equipment's which became damaged/ unserviceable are replaced/ consumed so that the machine continue to perform at expected efficiency on sustained basis. Further as per Regulation 35(6) of TR 2019, capital spares are admissible separately as part of OSM expenses. Therefore, it is prayed

110

111	DAVR:TY DIODE BDG 12A, VRRM, 400-800V	0.10	No	NA.		
112	DAVR:TY CURT FLOW MONT. CARD	1.46	No	NA NA	No	No
113	DAVR-R2 DIODE REDNY MODULE	0.14	No		No	No
114	DISPOSAL PUMP ASSY, WEIR, 14/12GAH	71.16	No	NA NA	No	No
115	CAGE FRAME GN30248114 TKK-48X114	33.32	No	NA NA	No	No
116	COMP ASSY, ELECON, GEAR BOX, KCN250	25.10		NA	No	No.
117	HEAD SHAFT, 1850101. BHM-125	15.87	No	NA.	No.	No.
118	MPELLER SHAFT, 1860101, BHM-125		No	NA.	No	No
119	FLEX GRID COUPLING, RT/GR-113/0, BIBBY	15.87	No	NA -	No	No:
120	COMP ASSY ELECON GEAR BOX JU-400,1:1	11.09	No	NA.	No.	No
121	PUMP ASSY,EM12TC	19.83	No	NA.	No	No
122	MULTI PORT ASSY,614000011.03.01.G.BHEL	7.25	No	NA.	No No	No
123	HYDRAULIC AMPLIFIER ASSLY.01142801000800	18.64	No	NA.	No	No
124	BATTERY, RECH.NI-CD, 380V, 410AH	22.00	No	NA.	No	No
125	RADIAL SEAL BHEL 27.5 VIM 2150	35.51	No	NA NA	No	No.
25	RADIAL SEALS SET CW+CCW,30 VIM 2000	9.10	No	NA.	No	No
27	24V DC-DC CONVERTER, MODEL-200SI	16.72	No	NA.	No	No
28	DRUM SAFETY VALVE, 1740-WB	1.22	No	NA.	No	No
29	PUMP ASSY,2H 100 M1	12.00	No	NA.	No	No
30	VEHICLE DIATEODA TRUCK INCIDENTALES	10.29	No	NA.	No	
31	VEHICLE PLATFORM TRUCK JOSTS FWHFB 40	29.62	No	NA.	No	No.
32	ANGLE DRAW VV EXV101,102 CRHV101-DN50/65	15.12	No	NA.	No	No
33	ANGLE DRAIN V/V-HRHV109,110-DN25/40	2.40	No	NA NA	No	No
34	ANGLE DRN VV EXV101,102-CRHV101-DN50/65	3.78	No	NA NA	No	No
35	ASSY (088/010, VOITH COUPLING, R18KGS1	13.91	No	NA NA		No
38	VALVE, GL, BW, 150MM, CL-2500	9.73	No.	NA NA	No	No
-	TY PWR MODULE CN0086209777 BHEL	8.03	No	NA.	No	No
37	ROTOR,102&1.01,PUMP,2BE1.353.0ZY.4	47.82	No	NA NA	No	No
38	COMPLETE SAFETY VIV TYPE 1740WD	13.41	No		No	No
39	SIZE 200: WATER RING VACUUM PUMP ASSY	53.49	No	NA NA	No	No
40	TRANSMISSION SHAFT 1840101 BHM-130	13.27	No.	The second secon	No	No
41	RELAY, NUMERIC/DIGITAL 220VDC SIEMENS	9.54	No	NA.	No.	No
42	LV BSNG+MTL PRT&GSKT:1PH 200MVA 21/400KV	10.50	No	NA.	No	No
43	PLATE STACK, 21. DRESSER MASONEILAN	54.14		NA.	No	No
44	DAVR: TY DC TDR DUL 0-80MV 4-20MA 220VAC	1.10	No	NA NA	No	No
45	DAVR:R2 CT370AV1 MEM. CARD	0.47	No	NA NA	No	No
45	DAVR:TY CURT FLOW MONT, CARD	15.65	No	NA NA	No	No
47	DAVR:R2 DC (-)15V +15V, 4-20MAMP, 240VAC	1.46	No	NA.	No	No
48.	DAVR R2 SMPS 90-260VAC, 220V-24V DC 10A	0.55	No	NA.	No	No
49	PUMP ASSY,SAM TURBO,AR-300/750 AM	0.79	No	NA.	No	No
50	BATTERY RECH, NI-CD, 220V, 890AH	24.85	No	NA.	No	No
52	BEARING PART NO 69 CLYDE UNION PUMP	167,19	No	NA.	No	No
52	LP STAGEAELEMENT, 1818590481, ATLAS COPCO	15.59	No	NA.	No	No
53	GEAR COUPLING ED4500 COMP ASSY ELECON	32.35	No	NA NA	No	No.
14	TRACK SHOE ASSY, 130CT00288, BEML, DOZER	2.17	No	NA .	No	No
15	ONLINE OPAC MONITOR FLUE GAS	56.34	No	NA .	No	No
16	PUMP ASSY, 100/400+TPS 3VD	13,45	No.	NA.	No.	No.
17	SHAFT REARING ASSY OF DAY OF THE PARTY OF TH	6.06	No	NA.	No	No
18	SHAFT BEARING ASSY,0-55-215-0110981,BHEL	15.48	No	NA.	No	
99	GEAR COUPLING NO ED 6200	1.16	No	NA.	No	No.
10	G CPLG ELECON-ED 4500: COMP ASSY	2.07	No	NA.	No	No
1	CIRCUIT BREAKER, SF6,420KV, 3150A, 50KA	34.62	No	NA NA	100000	No
	1400 ND PULLEY DXL630X1600 SHAFT D150	2.28	No	NA NA	No No	No
2	COMPLETE VALVE ASSY, HS450/5 HOPKINSON	46.15	No	NA NA	No	No
3	1800: DRIVE DXL400X2000XSHAFT D80	0.52	No		No	No
4	CARTRIDGE ASSY, BHEL, PUMP, FK4E38	153.31	No	NA NA	No	No
5	COMP ASSY, ELECON, GEAR BOX, KBN280	30.99	No.	NA.	No	No
15	CIRCUIT BREAKER, SF6, 132KV, 125QA	6.87		NA.	No	No
7	XFMR,CURR,2000/1/1A,400/428KV	21.80	No	NA.	No	No
8	K1401-2:FRONT JOURNAL BEARING		No	NA.	No.	No
6	K1401-2:REAR JOURNAL BEARING	5.88	No	NA NA	No	No
0	COMP ASSY, FLUIDOMAT, COUPLING, SC-10	5.55	No	NA NA	No	No
	The state of the s	17.15	No	NA NA	No	No

that the capital spares consumed by the instant station during the period may please be allowed by Hon'ble Commission.

परिमल पीर्यूष | PARIMAL PIYUSH
अगर माहाप्रकाशक (क Commercial)
Addi. General Manager (NTPC LIMITED)
पम दी भी लिमिटेड / NTPC LIMITED
EOC. A-8A. Sector-24, Noida-201301 (U.P.)

	Grand Total Total for Rihand-III station (B=A*2*500/3*2*500))	16,065.06 5,355.02	- 1270	18.1	149	100	
210	XFMR POT CAPACITIVE VOLTAGE 400KV/110V	28.90	No	NA NA	No.	No	
209	COMP ASSY, FLUIDOMAT, COUPLING, SC-10	40.22	No	NA NA	No.	No.	
208	COMP ASSY, PEMBRIL, COUPLING, PST-530	13.27	No	NA.	No.	No.	
207	GEAR BOX ASLY PREMIUM, H1-225, 1,98,1	11.43	No	NA NA	No No	No No	
906	COMP ASSY GREAVES GEAR BOX H1-200	19.18	No	NA NA	No No	No.	
206	ROTOR, 1,0281,01, PUMP, 2BE1 353 OZY 4	95.65	No	NA NA	No	No	
204	NRW/SWING CHECK VALVE ASSY, BHEL, BIN	27.81	No	NA.		No	
203	SECTOR PLATE SET,0-52-045-00885, BHEL	22.23	No	NA NA	No No	No	
202	SECTOR PLATE SET 0-52-041-00981 BHEL	28.25	No	NA NA	No No	No.	
101	BATTERY, RECH, NI-CD 220V 990AH	167.19	No	NA NA	No No	No	
200	PVC FILL PK:CF:(1216X1829X305):THK-0.3MM	7.44	No	NA NA	No	No	
199	PVC FILL PK:CF:(869X1829X305):THK-0:3MM	0.73	No	NA NA	No	No	
198	SH SPRAY BRANCH BLOCK VALVE 504	8.73	No	NA NA	No	No	
197	SUPER HEATR SPRAY CONTRUV/(CAPITALISED)	7.49	No.	1000000	No	No	
196	ANGLE DRAIN V/V-HRHV109,110-DN25/40	4.81	No.	NA NA	No	No	
195	ONLINE OPAC MONITOR, FLUE GAS	479.47 13.45	No No	NA.	No	No	
94	CARTRIDGE ASSY FK4E38	443,68	No	NA.	No	No	
193	HEAT EXCHANGER ASSY AP9 APV SR14-AP	1,530.46	No	NA.	No	No	
192	ASSY, VOITH, COUPLING, R18KGS1	26.95	No	NA.	No	No	
91	DRUM SAFETY VALVE ASSY, 1750-WB	24.00	No	NA.	No	No	
90	ORUM SAFETY VALVE 1740-WB	21.38	No	NA.	No	No	
189	FUR WALL DESLAG BLOWER, LESS DRIVE UNIT	12.22	No	NA.	No	No	
88	HOIST ELECTRIC OPER 0.51-1TON 50 01-55M	4.33	No	NA.	No	No	
87	HOIST ELECTRIC OPER 3.01-4TON 5.01-10M	3.31	No	NA.	No	No	
88	EL OP. HOIST-1.01-1.5T ELECTRICAL HOIST	14,71	No	NA.	No	No	
85	EL OP. HOIST-2.01-3.01; LIFT 25.01-30M	8.88	No	NA.	No	No	
84	HOIST, ELECTRIC OPER, 1,51-2TON, 50,01-55M	3.28	No	NA NA	No	No.	
183	HOIST ELECTRIC OPER 1.51-2TON 20.01-29M HOIST ELECTRIC OPER 0.51-1TON 5M	3.85	No	NA.	No	No	
182		11.05	No	NA.	No	No	
181	HOIST ELECTRIC OPER 1.51-2TON 5.01-10M EL OP. HOIST-1.51-2.0T; LIFT 15.01-20M	10.08	No	NA.	No	No	
179	PUMP ASSY, ZM # 530/01	8.0B	No	NA.	No	No	
178	PUMP ASSY, 9MD 100/250 D	5.76	No	NA.	No	No	
-	XFMR,POT,CAPACITIVE VOLTAGE,400KV/110V	13.18	No	NA.	No	No	
177	ROTOR ASSY, PA FAN, AP2-20/12	257.76	No	NA.	No	No	
75	EDDY CURRENT CLUTCH 12440115 DLW	10.26	No	NA.	No	No	
riredau	PLATE STACK, 21, DRESSER MASONEILAN	32.97	No	NA.	No	No	
173	COMP ASSY, PREMIUM ENERGY, GEAR BOX, B3-355	51.04	No	NA.	No	No	
172	FLUID DRIVE HYD CPLG,36SCR24R,960RPM	13.91	No	NA.	No	No	
171	PUMP ASSY,EM12TC	7.25	No	NA	No	No.	

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (दर्गणिका 5) Addl. General Manager (Committeel) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

							PART			
							Form-18			
Non-Ta	riff Income *	We make the same								
CONTROL TO THE CONTROL OF THE CONTRO		NTPC Limited								
Name o	of the Generating Station	Rihand Su	Rihand Super Thermal Power Station Stage-III							
		American				(ir	Rs. Lakh			
S. No.	Parameters	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24			
1	Income from rent of land or buildings	NA.	37.91	44.10	37.39	53.10	52.83			
2	Income from sale of scrap	e divides	64.59	243.08	187.74	352.04	263.23			
	Total	S	102.50	287.17	225.13	405.13	316.06			

100

(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिवियक) Addi. General Manager (Commercial) एन टी पी नी लिमिटेड/NTPC LIM/TED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

					A 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			PART
Name	of the Pet	tioner	1	Deta	ails of Water Charges			Form-1
Name of the Generating Station				N IPC Limited				
	or and oct	iciating Statio	n	Rihand Super Thermal F	Power Station Stage-III			
S. No.	-	Details of Wa						
		(excluding water cess)		Quantity allocated	Normative consumption at 100% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount (in Rs. Lakh) Claimed (Annualized)
	Year*	Name of source and quantity	and Lakh)		Unit-m3			
1	2019-20		466.24					
2	2020-21	Rihand	466.24		3,07,44,000		Nil	400.04
3	2021-22	12/5/2018/00/74	466.24	37.19	3,06,60,000		Nil	466.24 466.24
	2022-23	Reservoir	466.24	37,18	3,00,00,000	Pl. refer Form-19A.	Nil	
	2023-24		477.83		3,06,60,000		Nil	466.24 466.24
Additio	mal Colum	n.			3,07,44,000		Nil	477.83

परिमल पीयूब/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिविवक) Addl. General Manager (Commercial) एन टी पी सी तिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

(Petitioner)

						Part- FORM-19A NAL FORM	
	Details of Water Ch	arges Com	outation	. 9	7-00/00/00/00		
Name of the Company :	NTPC Limite	NTPC Limited					
Name of the Power Station :	Rihand Supr	er Thermal i	Power Stati	on Stage-III			
ITEM	Units	2019-20	2020-21	2021-22	2022-23	2023-24	
Water Allocation/Contracted	CUSEC	37.19	37.19	37.19	37.19	37.19	
Actual water Consumption	CUSEC	37.19	37.19	37.19	37.19	37.19	
Rate of Water Charges	Palsa/kWh	295.54	295.54	295.54	295.54	325.10	
Water Charges Paid	Rs. Lakhs	466.24	466.24	466.24	466.24	477.83	
Total water Charges Paid	Rs. Lakhs	466.24	466.24	466.24	466.24	477.83	

rate of water charges. Petitioner

(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH
अपर महाप्रवास्त्रक (दानितिस्त्रक)
(त से भी सी लिनिस्ड /NTPC LIMITED
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

				PART			
				FORM- 2			
	Details	of Statutory Ch	arges				
Name of the Petitioner	NTPC Limited	NTPC Limited					
Name of the Generating Station	Rihand Super	Thermal Power	Station Stage-III				
Particulars	Unit Rate	No of Units	Amount Claimed				
Electricity Duty			NIL				
Water Cess							

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिचियक) Addl. General Manager (Commercial) एम टी पी सी लिगिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Nolda-201301 (U.P.)

(Petitioner)

								PART FORM
								Amount in Rs Lai
								Pennyant er vis er
	of the Petitioner	NTPC Limited						
ame	of the Generating Station	Rihand Super Thermal Power Station S	itage-III					
ate	of Commercial Operation	27-03-2014						
or F	inancial Year	2019-20						
	COUNTY OF THE		7-2	-	non-differential			
	Period	Rate of Depreciation			Rate of Depreciation			
3	19.11.2012 to 31.3.2013	5,3601%		2019-20	5.4624%			
	1.4.2013 to 26.3.2014	5.6217%						
33	27.3.2034 to 31.3.2014	5.5495%						
	2014-15	5,5496%						
	2015-16	5.5559%						
	2016-17	5.5350%						
	2017-18	5,4702%						
	2018-19	5.4699%						
	2770.75	2000000						
400	op of Spares: Part of capital c	ost						
S.N		Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised (As per IndAS Balance Sheet)	IndAS Adjustment	Original Value of the Asset Capitalised (As per IGAAP)	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the norm rate of weightage average rate of interest on loan
Δ	Decap of Spares: Part of Ca	pital Cost				2010 10	6.57	No
1		Claimed as additional capital	14.01	3.00	17.02	2012-13 2013-14	8.99	No
2	-Decap of Spares: Part of	expenditure	19.62	7.53	27.16	2015-16	277	No
3	Capital Cost	expenditure	12,61		12.61 56.79	2015-10	18.34	
	Subtotal (/	9	45.25	10.53	96.18		1000	
1	Decap of MBOA: Part of Car	pital Cost						* No
1	Decap of MBDA	Claimed under additional capital	400 00		123,88	2016-17	20.36	790
+	The state of the s	expenditure	123.88 123.88		123.88		20.36	
	Subtotal (I	31	123.88		122.00			
	Decap of MBOA- Not Part o	f Capital Cost			33.53		1	NA.
1	EDP, WP Machines and SATCOM Equipment	Claimed under Exclusion	2.91		2.91	2019-20		1001
	Subtotal (	5)	2.91	-	2.91			
_			173.04	10.53	183.58		38.70	
	Grand Total of Decap of as	200.04						Petitio

परिमल पीयूब/PARIMAL PIYUSH अपर महाप्रयम्बक (दालिपियक) Add. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Nolda-201301 (U.P.)

								PART FORM
								Amount in Rs Lat
_	17.5							Annual Inter-
		NTPC Limited						
	The state of the s	Rihand Super Thermal Power Station S	stage-III					
	at particular contract of particular	27-03-2014						
IF F	Inancial Year	2020-21			No. of Street, Street,			
	Period	Rate of Depreciation			Rate of Depreciation			
	19:11:2012 to 31:3:2013	5,3801%		2019-20	5.4624%			
П	1.4.2013 to 26.3.2014	5.6217%		2020-21	5,4524%			
П	27.3.2014 to 31.3.2014	5.5495%		0				
	2014-15	5,5496%						
	2015-16	5.5559%						
	2016-17	5.5350%						
	2017:18	5.4702%						Y
	2018-19	5.4699%						
		St						
A	Decap of Spares; Part of cap	ital cost	Original Value of					
i.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	the Asset Capitalised (As per ledAS Balance Sheet)	IndAS Adjustment	Original Value of the Asset Capitalised (As per/GAAP)	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the sorreal rate of weightage average rate of interest on loan
1.			455.89	186.19	643.67	2012-13	203.79	No
5	Decap of Spares: Part of	Claimed as additional capital	189.79	108.15	297.96	2013-14	114.95	No.
<u></u>	Capital Cost	expenditure	156.44	2000,100	156.44	2015-16	42.94	No
4	Capital score	Table 100 Co.	26.42	77.3	26.42	2019-17	5,79	5
-	Subtotal (A)		028.33	296.36	1,124.69		441.70	
Ξ	Di Locoredo nota in	Note:		-			- 40000	
В	Decap of MBOA: Part of Cap		1		0.96	2014-15	2.89	No
	EDP, WP Machines and	Claimed as additional capital	8.54		8.76 4.57	2016-17	1.00	
2	SATCOM Equipment	espenditure	4.67		13.33	2010-17	2.89	
	Subtotal (B	100000000000000000000000000000000000000	13.11	0.22	19.32		2.00	
_	- 45 0.45							
4	Decap of Spanss- Not Part of	Capital Cost		_				
1	Decap of Spares. Not Plat of Capital Cost	Claimed under Exclusion	19.41		18.41	2017-18	21	Hamble Commission vide para 14 of order did. 13.11.102 partion no. 238/GT/2020 has allowed Capital-salon of capital-speres after cut-off date under exclusion hence the decap is kept under exclusion here. Honbrie Commission may be pleased to allow the salon.
2	Decap of Spares: Not Part of Capital Cost	Clamed under Exclusion	279.76	l li	276.76	2019-20	45	Capitalization of sparse beyond cut-off date is not admissible as per Tariff Regulations 2016 accordingly fiv decapitalization of these spanss are claimed under exclu- Hor/fole Commission may be pleased to allow the same.
-	Subtotal (C		298.16		296.16			
_	- Carrente Co						01/01	
_	Grand Total of Decap of ass	els	1,137,61	296.67	1,434.18		444.58	

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपुर महाप्रवन्धक (वाणिजियक) Addi, General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

		Details of decap	italization during 2021-2	22				PAR
	ne of the Petitioner		NTPC Limited	NA.				FORI
	ne of the Generating Stat	ion	Rihand Super Thermal	Power Station Stage-III				110.000
	tion COD		27-03-2014			_		
For	Financial Year		2021-22					
_								
_	Period	Rate of Depreciation		Period	Rate of Depreciation			Amount in Rs Lai
_	19:11:2012 to 31:3:2013	5.36019		2019-20	5.4624%			
	1.4.2013 to 26.3.2014	5.62179		2020-21	5.4592%			
_	27.3.2014 to 31.3.2014	5.54959	6	2021-22	5.4578%			
	2014-15	5,54969		2022-23	5.4560%			
	2015-16	6.55699		2023-24	5.4619%			e .
	2016-17	5,53509		-	0.401976	-		
	2017-18	5,47029				-		
	2018-19	5,4699%				-		
_		- 1000 V 0 10 10 10 10 10 10 10 10 10 10 10 10 1				-		
_	Decap of Spares - Part of	of Capital Cost						
S.N	Name of the Assot	Nature of de-capitization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitatised as per indAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
	40.000000000000000000000000000000000000	Claimed under Additional	56.85		2.119.1	2012-13	52.28	o No
1	Decap of Spares	Capitalization	7.00			2013-14	5.75	
	Commence of the commence of th		53.70			2015-16	245	
	Subtotal (A)		125.01	42.65		2016-17	14,69	No
			123,01	42.00	167.65		58.03	
3	Decap of MBOAs - Part of	of Capital Cost						
2	Furniture and Fixtures	Claimed under Additional	200	1999		75000000000		
-		Capitalization	0.99	0.07	1.98	2013-14	0.52	No
208	EDD WD	And the Laboratory	5.52	3.90	9.42	2013-14	37377	500.0
3	EDP, WP machines & SATCOM equipment	Claimed under Additional	13.90	0.36	14.26	2014-15	4.67	No
	ON I COM EQUIPMENT	Capitalization	0.36		0.36	2015-16	36.50 0.12	No No
	SV450/010	Claimed under Additional	1.81	-	1.61	2016-17	0.12	No No
-	Hospital Equipment	Capitalization	0.05		0.08	2016-17	0.02	e No
7	Other Office Equipment	Claimed under Additional Capitalization	23335		2.52	2016-17		10011
	Subtotal (B)		2.52	4		2016-17	0.69	No
	Dubliotai (15)		26.18	4.33	29.51		43.02	
	Decap of Spares - Not pa	art of Capital Cost				2		
	Name of the Asset	Nature of de-capitization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	indAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to	Justification	
1	Oecap of Spares	Claimed under Exclusion	132.76	1	132.76	2019-20	Since capitization of spares after cut-off date is not admissible as per Tariff Regulations, 2019, hence their decapitalization has been claimed under exclusion.  Hon'ble Commission may be pleased to allow the same.	* NA
	Subtotal (C)		132.76		132.76			
-	Decap of MBOAs - Not p				10000			-
		let of Constal Cost						

'n	nd Total of Decap of see	ets	1,226.38	-888.80	336.58		101.05	_
	Subtotal (E		935.77	-935.77				
	Decap of Overhauling Assets	Claimed under Exclusion	\$35.77 -	935.77	1 22	2021-22	This Decapitalisation entry is an account of Change in Accounting Practice wherein decap during overhauling have been capitalised as per Ind AS with not amount under KAAP as zero. The same is kept under exclusion.  Hon'ble Commission may be pleased to allow the same under exclusion.	NA
	Journal (D		6.66		6.66			
2	EDP, WP machines & SATCOM equipment Subtotal (D	Claimed under Exclusion	0.23		0.23	2017-18	Capitalization of these assets was kept under exclusion and allowed by Honfble Commission vide para 16 of order did 13.11.2023 in Petition no 238/GT/2020, Accordingly, decay of these assets is kept under exclusion.  Honfble Commission may be pleased to allow the same.	NA
,	Plant and Machinery	Claimed under Exclusion	5.43		6.43	2019-20	Since capitization of MBCA after cut-off date is not admissible as per Tariff Regulations, 2019, hence their decapitalization has been claimed under exclusion.  Hon'tie Commission may be pleased to allow the same.	

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रकृष्यक (कणिज्यक) Addi. General Manager (Commiddal) एन टी पी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

			dization during 2022-23					FORM
	o of the Petitioner		NTPC Limited					
	e of the Generating Station		Rhand Super Thermal Po	ower Station Stage-III				
	on COD		27-03-2014					
r F	inancial Year		2022-23					
					m - married and	_		
7	Period	Rate of Depreciation		Period	Rate of Depreciation			
$\neg$	19.11.2012 to 31.3.2013	5.3601%		2019-20	5.4624%	_		
$\neg$	1.4.2013 to 26.3.2014	5.6217%		2020-21	5.4592%			
$\neg$	27.3.2014 to 31.3.2014	5.5496%		2021-22	5,4578%			
	2014-15	5.5496%		2022-23	5.4560%			
	2015-16	5,5559%		2023-24	5,4619%			
	2016-17	5,5350%						
	2017-18	5.4702%						
	2018-19	5.4699%						
-	2016-19	9,4000.0						Amount in Rs Lai
	Decap of Spares - Part of	Capital Cost						-
	Decision of Spirits - 1 to 1 to 1	JOHN THE PROPERTY OF THE PROPE						
i,N	Name of the Asset	Nature of de-capitilization (whether claimed under exclusion or as additional capital expenditure)	Value of the Assot decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whother earning RoE at the norma rate of weightage average rate of interest on loan
			16.03	97,28	193.30	2012-13	117.03	
	1000	Claimed under Additional	209.55	and the second s		2013-14	218.37	No
1	Decap of Spares	wrest transcription and the second	7.46		7.46	2015-10	2.86	No
	Proceedings of the Control of the Co	Capitalization	52.45		52.45	2015-17	17.21	No
_	* ***********		165.49			2010/1	335.40	535.67
_	Subtotal (A)		363.49	204.42		-		
13	Decap of MBOAs - Part of	of Capital Cost			T	120,200,000		
-	EDP, WP machines 8	Clemed under Additional	52.72	1.35	54.08	2014-15	23,73	
1	SATCOM equipment	Capitalization	30.99		30.99	2016-17	10.17	
-	Subtotal (B)		83.71		85.07	10007676	33.92	
-	Samoan (b)		0.75		- 4			
-	Decap of MBOAs - Not p	act of Capital Cost						
1	EDP, WP machines & SATCOM equipment	Claimed under Exclusion	28.45		28.48	2018-19	Capitalization of these sissets was kept under exclusion and allowed by Horible Commission vide para 16 of order did 13, 11 2023 in Patition no 238/GT/2020, Accordingly, decap of these assets is kept under exclusion.  Horible Commission may be pleased to allow the same	NA.
	Subtotal (C)		28.48		26.40			
D	Decap of Overtrauling Assets	Claimed under Exclusion	412.7	- 412.71	-	2022-23	This Decapitalisation entry is on account of Change in Accounting Practice wherein decap during overhalding have been capitalised as per Ind AS with not amount under iGAAP as zero. The same is kept under exclusion Hor/bis Commission may be pleased to allow the same under exclusion.	
-	Subtotal (D	0	412.7	412.7	+			
	200					-	301	1
Sec.	and Total of Decap of asset	etu	890,3	-126.9	6 763.45		300	100

परिमल भीवूल/PARIMAL PIYUSH अपर महाप्रवन्धक (ट ्विकान) Addi, General Manager (Cu arr ial) एन दो भी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

(Petitioner)

					ization during 2023-24	Details of decapital		
				Change III	TDC Limited	A.	of the Petitioner	-
				wer Station Stage-III	hand Super Thermal Po	R	of the Generating Station	
The Park and					7-03-2014		COD	
Amount in Rs Lakt					023-24	2	ancial Year	
			T. C. C. Demonstration		ATTEM TO THE TOTAL TO THE T		ariciar roof	100
			Rate of Depreciation			Rate of Depreciation	Period	+
			5.4624%	2019-20		5,3601%		1
			5.4592%	2020-21		5.6217%	9.11.2012 to 31.3.2013	
		_	5.4578%	2021-22		5.5495%	4 2013 to 26.3.2014	
		_	5.4580%	2022-23		5.5496%	7.3.2014 to 31.3.2014	
			5.4619%	2023-24		5,559%	014-15	
				10000		5.5350% 5.5350%	015-16	
						5.4702%	016-17	1
Amount in Rs Lai			W. Salah				017-18	1
Pariount to tes mis-						5.4699%	018-19	
						NACAT HOUSE TO SEE THE SECOND	Control of the contro	$\neg$
tage at constant						Capital Cost	Decap of Spares - Part of	-
Whether earning Roll at the norms rate of weightag sverage rate of interest on loan	Depreciation recovered till date of decapitalization	Year Put to	Value of the Asset decapitalised as per IGAAP	IndAS Adjustment	Value of the Asset decapitalised as per IndAS	Nature of de-capitization (whether claimed under exclusion or as additional capital expenditure)	Name of the Asset	N
	355.20	2012-13	538.28					
, No	164.63		272.08	264,90	273.38	2000 CO		
No	43.05		112.49	98,05	174.03	Claimed under Additional	there of Spanes	
	519.89	2010-17	922.86		112.49	Capitalization	Decap of Spares	1
			922.86	362.95	559.91	Subtotal (A)		-
								_
No.	135.06	004040	2000			of HMI	Decap on Upgradation of	B
	400.00	2012-13	204.63	122.49	82 14	Claimed under Additional	Decen on Ungradation of	-
1	135.05	5	204.63	122.49		Capitalization	HM	1
				122.40	82.14	Subtotal (B	T. Line	-
- 112			_					_
	0.90	2012-13	1.36	4.50	( )	of Capital Cost	Decap of MBOAs - Part	-
	0.40	2013-14		1.36			Decap of wildows - 1 ars	-
	0.36	The State of	0.82		0.4			
	0.34	2016-17	0.90		0.83		Other Office Equipment	-
No.	0.71	2013-14	and the second s		0.9			_
s No	13.60	7.000		0.36	0.7			-
7,000	100	2014-15	27.30	0.8	17.4	Claimed under Additional		-
	0.00	2015-18	0.06	6 -	0.0	Cantalization	EDP. WP machines &	
37 No	4.3	2018-17	11.42	2 -	11.4		SATCOM equipment	_
	0.1	2015-16	0,23	3	0.2	-	Communication	_
87	17.8		2 43.91		-		Equipment.	
-				11.0	32.0	Subtotal (S	110000000000000000000000000000000000000	
NA.		2019-20	16.15		32	Part of Capital Cost	Decap of Spares - Not	D
he NA	Capitalization of spares beyond cut-off date is not admissible as per Tariff Regulations 2019 accordingly the	100000000000000000000000000000000000000	-	9	16.1			
7	demonstrations on of these spaces are claimed under	O 17 PT ST 10-100	16.87	37	15.	107.00 - 20.00 Markets		
	exchain. Hon'ble Commission may be pleased to allow	2022-23	100.13		100	Claimed under Exclusion	Decap of Spares	١.

1		7207		0.190	0.000000	Town entrees.	
		5.57		5.57	2023-24	100000000000000000000000000000000000000	NA.
	Subtotal (D)	137.77	+00	137.77			
Decap of MBOAs - Not	part of Capital Cost						
EOP, WP machines & SATCOM equipment	Claimed under Exclusion	14.24		14.24	2018-19	Capitalization of these assets was kept under exclusion and allowed by Horible Commission vide para 16 of order dtd 13.11.2023 in Petition no 238/GT/2020. Accordingly, decap of these assets is kept under exclusion.  Horible Commission may be pleased to allow the same.	NA :
		0.77		0.77	2022-23	Since capitization of MBOA after out off date is not admissible as per Tariff Regulations, 2019, hence their decapitalization has been claimed under exclusion.  Hon'ble Commission may be pleased to allow the same.	NA
	Subtotal (E)	16.01	4.0	15.01		DO DO PRO MACRO UNIO DI MINO DI LI CARRO DI POPO DI PO	
Decap of Overhauling Assets	Claimed under Exclusion	2,218.87	(2,218.87)		2023-24	This Decapitalisation entry is on account of Change in Accounting Practice wherein decap during overhauling have been capitalised as per ind AS with net amount under iGAAP as zero. The same is kept under exclusion.	NA
Subtotal (I	F)	2,218.67	-2,218.87	17411			
	ets (A+B+C+D+E+F)	3,045,79	-1,721.61	1,324,18		673	

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (धारितिक्यक) Addi, General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

						Part
_						Form
	Summary of Great Block					
	the Petitioner:	NTPC Limited	-			
	the Generating Station	Rihand Super T	hermal Power S	tation Stage-III		
COD:						
		-			-	Amt in Rs Lac
SI No	Particular	****				00 V V V V V V V V V V V V V V V V V V
at red	Particular	2019-20	2020-21	2021-22	2022-23	2023-24
-	Classing Gross Block as per IND AS	8,08,796	820 449	8,27,676	8.60.117	8.96.141
	Add: currenulative Ind AS Adustment (breakup given below)	3.91,788.22	3.00,337.99	3,89,106,97	3.87.282.97	3,81,938.40
2.1	Adjustment of accumulated depreciation as on 1.4.2015	4,12,944	4,12,944	4,12,944	4,12,944	4.12.94
2.2	Lees: Currelative Gross slock adjustment with regard to Acc. Dep for	7,329	B.314	9,484		
	(decopitalisation	555	37777		11,490	13,58
1 2	Less: Cumulative capital overhauling/major inspection capitalised out of revenue	15,217	18,624	29,917	32,761	30,61
	SAdd: Cumulative Deceptorsoner of capital Overhauling	1,629	705	9,305	16,548	19,960
2.0	Less: spares capitalised out of inventory system circular 126	2,680	2,800	2,890	2,990	2,88
2.8	Less: spares capitalised out of inventory system ditoular 146	100	- 2		+	
23	Less: Currulative Capitalisation of PV of Future minimum lease obligation in Lease hold land	3.	- 82	150		
2.1	I)Less: Currulptive Unwinding expenses Capitalised	. 63	130	139	181	18
2.5	Add: Currelative Vendor Discounting	126	149	151	184	19
	Add: Eproving cost adj due to change in interest rate (£1ft)	- 14	9.01		4	
2.11	Additions: Any other Adj in PPE due to IND A5 implementation	-382	-383	-384	2.038	2.22
	Culturalitive Capital spares Capitalised	2,860	2,880	2,890	2.680	2.68
	Closing Gross Block as per iGAAP	11.98.584.18	12,06,766,54	12,15,783.31	12,47,399.97	12,77,079.9
- 4	Opening Gross Block as per IND AS	7,85,394	8.06.796	B.20.449	8,27,676	8.60.11
	Add: Cummulative Ind AS Adustment (breakup given below)	3,98,079	3,91,768	3,06,330	3,69,107	
	Adjustment of accumulated depreciation as on 1.4.2015	4.12.944	4.12.944	4.12.944	4.12.944	3,87,28
	Less Cumulative Gross block adjustment with regard to Acc. Dep for	6,643	7.229	8.314	9,484	11.49
2.5	decapitalisation	0.00	7,229	0,314	9,4004	11,40
-5.5	Lies: Curridative capital overhauling/major inspection capitalised out of revenue	10,259	15,217	18,624	23,317	22,76
5.4	Add: Cursulative Decapitalisation of capital Overhauling	2,410	1,629	705	9.335	16.54
5.3	Less: spares capitalised out of invertory system circular 126	2,880	2,680	2.890	2,890	2.89
5.6	Less: sparas capitalised out of inventory system diroular 146	2,550		2,000	5,000	2.00
4.1	Laso: Currelative Capitalisation of FV of Future minimum loase obligation in Lease.	_2.	+-	- 1		
51	Less: Cumulative Unwinding expenses Capitalised	80	89	139	139	10
	Ago: Currulative Vendor Discounting	87	126	149	151	18
5.16	Add: Cumulative Borrowing cost adjidue to change in interest rate (EIR)	-	1000	1000	10.1	10
5.19	Additions: Any other Adj in PPE due to IND AS implementation	-381	-382	-383	-384	2.03
	Currulative Capital spanse Capitalized	2.880	2,860	2,890	2,690	2.89
	Opening Grose Black as per IGAAP	11,83,473.00	11,98,564.16	12.06.786.54	12.16.763.31	12.47,399.9
	Total Additions as per books (G = 5 - fi)	15,111.10	8.202.38	9 995 76	30,616.66	29,679.0
84	Addition as per IGAAP corresponding to Rihand-I	5,201,59	1,358	2,722	72,900	15,22
85	Addition as per IGAAP corresponding to Rithand-II	379.75	965.09	2,396,20	3,701	10,22
1	Net Additions pertaining to instant project/Unit/Stago	9,529.75	5,879,73	4.678.70	4,015.38	12,490.2
	Less: Explusions (items not allowable / not claimed)	9,110.44	-185	1,791	3.872	
	Net Additional Capital Expenditure Claimed (on accrual basis)			The state of the s		6,23
	Less Un-discharged Latel/ses (as per IGAAP)	419.32	6,065.08	3,087,59	143.24	6,250.1
	Add. Discharges of un-discharged liabilities, corresponding to admitted	53.11 491.63	664	349	187	- 3
45	CONTRACTOR OF THE PROPERTY AND AND AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROP	491.83	1,715.62	-860	725	64
	Basets/sorks (as per IGAAP) Net Additional Capital Expenditure Claimed (on	858.05	7,117.30	3,596,51	877.48	6,934,71

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परिमल दीग्रुष/PARIMAL PIYUSH अपर महामञ्ज्ञाक (पार्तिराज्यक) Addl. General Manager (Communical) एन दी भी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

Petitioner)

		M-							PAR
Nan	e of the Petitioner	NTPC Limited	wise Statement of A	Additional Cap	pitalisation				Form
Nan	e of the Generating Station								Amount in Rs. La
Date	of Commercial Operation	Rihand Super Thermal Power !	Station Stage-III						
	Financial Year	27-03-2014	7-1-1-2-5						
	THE PART OF THE PA	2019-20							
SI.					ACE C	laimed		-	
No	10.00	Party Name	Accruel basis as per Note 2	Ind AS Adj.	Accrual Basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in	Justification
1	2	3	4	5,00		375,000,000,000		col. 3	
В	Exclusions			5,00	6.00	7.00	8.00	9.00	10
-	Exclusions								10
B.t.	Cripitalization of Spares	Várious Parties	647,50		647.90	To	647.90		Capitalization of spares beyond cut-off date <sup>2</sup> s not admissible as per Tail® Regulations 2019 accordingly the capitalization of these spares are claimed under exclusion.  Hon'ble Commission may be pleased to allow
B.2	Decap of MBOA- Not Part of							_	the same.
	Capital Cost		-2.91		-2.91		0.755	_	The state of the s
-					(56,87)		-2.91	**	Justification given in 'Form-I 2019-20'.
B.3	IndAS Adjustment						-		
1	Unit Overhauling			1.0				- 10	This Cardination is a
			718.53	-718.53					This Capitalisation is on account of Change in Accounting Practice. Therefore, it is kept under
-	Subtotal(B.3)		718.53	-718.53		187			exclusion. Homble Commission may be
				-			+	* 1	pleased to allow the same under exclusion.
						1	-		
	Loan SRV		8,579,25		8,579,25	14.38	8,564.86	1.00	As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Curreny Loans from beneficiaries, Therefore, FERV has been kept under exclusion.
1.5	Inter Unit Transfer	and the same of th	31.38	-1.43	-			-	
		To 00-800	20000	-	29.96		29.95	-	
	1		-4.72	-1.21	-5.93	-	-5.93	-	
5.1	RUP, WP machines &	To Vindnyachai From Forand (Interunit transfer)	-11.19	-0.22	-11.41	-			As per practice, the Hombie Commission is not
-	SATCOM equipment	rom Unchahar	0.60	-	0.60		-11,41		considering the temporary inter unit transfere
- 1	5	From Farakka	0.53	-	0.53	-	9.53	- 1	or terff, hence kept under exclusion.
	T I	rom Koldam	0.51	-	0.51		0.51	-	deathle Course
-		rom Tapovan Vishnugad	0.65	-	0.66		0.65	- 1	for ble Commission may be pleased to allow he same.
5.2	Plant and machinery	rom Vindhyachai	0.62	-	0.62		0.62		THE BELLIC.
-			44,38	-	44.38		44.38	+	
8	Reversed of Liability		-143.75		-143.75	-143.75	-	- S	Since tariff is on cash basis, hence reversal if ability is kept under exclusion.
_ 1								2.15	to same.

Total Exclusion (B)	9,830,39 -719,96	9,110.44	-129.37	9,239.80	-	
						Petitioners

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिज्यिक) Addl. General Manager (Commercial) एन टी पी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

									PART
		Year wise Sta	tement of Addition	onal Capita	disation				Form- Amount in Rs. Lak
	e of the Petitioner	NTPC Limited	TO THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER, THE OWNER OWNER, THE OWNER, T						Amount in Rs. Las
Nam	e of the Generating Station	Rihand Super 1	hermal Power St	ation Stage	e-III				
Date	of Commercial Operation	27-03-2014							
FOF P	inancial Year	2020-21							
					ACE C	laimed			
SI. No.	Head of Work /Equipment	Party Name	Accrual basis as per Note 2	Ind AS Adj.	Accrual Basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Justification
1	2	3	4	5.00	6.00	7.00	8.00	9.00	405
В	Exclusions					7.00	0.00	9.00	10°
B.1	Capitalization of Spares	Various Parties	3,261.60	0.16	3,261,76	25.80	3,235.96	-	Capitalization of spares beyond cut- off date is not admissible as per Tariff Regulations 2019 accordingly the capitalization of these spares are claimed under exclusion. Hor/ble Commission may be pleased to allow the same.
				-				+	
B.2	Decap of Spares: Not-Part of Capital Cost		-296.16		-296.16		-296.16		Justification given in 'Form-I 2020- 21'
				-			4.5		
B.3	IndAS Adjustment		33	*	-		-		This Capitalisation is on account of
1	Unit Overhauling		777,69	-777.69			- 3		Change in Accounting Practice. Therefore, it is kept under exclusion.
2	De-Cap of Overhauling Assets		-470.53	470.53	1	3	-	-	Hon'ble Commission may be pleased to allow the same under exclusion.
	Subtotal (B.3)		307.17	-307.17	-			- %	
_						-	-		
B.4	Loan ERV		-2,656.44	25	-2,656.44	*	-2,656.44		As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Curreny Loans from beneficiaries. Therefore, FERV has been kept under exclusion.
		-	-				1,2	74	
B.5	Inter Unit Transfer		143.62	80	143.62	23	143.62		As per practice, the Hon'ble Commission is not gonsidering the
3.5.1	EDP, WP machines & SATCOM equipment	To Vindhyachal	-0.51	23	-0.51		-0.51		temporary Inter unit transfers for tariff, hence kept under exclusion.
3.5.2	Plant and machinery	From Badarpur	144.13	23	144.13		144.13		Hon'ble Commission may be pleased to allow the same.
			-	- 2	-				

To	otal Exclusion (B)	121.66	-307.01	-185.34	-612.32	426.98	-	
B.6 R	eversal of Liability	-638.12	*	-638.12	-638.12	-	-	Since, tariff is on cash basis, liabilit reversal is kept under exclusion.

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

B.4 Capitalization of Capital Spares Various Parties 822.19  B.5 Decap of MBOAs (Not Part of Capital Cost) -5.66  B.6 Decap of Spares: Not Part of Capital Cost -132.76  B.7 Inter Unit Transfer -1.921.71  To Unchahar -3.72	-11	ACE C	laimed Undischarged Liability included in col. 3 7.00	Cash basis 8.00 759.49 759.49 1.518.99		This additional capitalization is on account of Revised Emission. Standards. The Patitioner has filed a separate Appendix i.e. Appendix-IA with the present petition for determination of the tar for this capitalization Hence, this addition is kept under exclusion here.
Station COD  27-63-2014 2621-22  SL No. Head of Work /Equipment Party Name Accrual basis as per Note-2 of BS  1 2 3 4  B Exclusions 3 4  Items not claimed - 1  Combustion Modification Package 1.1 Combustion Modification Package Unit#S United Dimited Party Electricals United 759.49  Subtotal (B.1) 1.518.98  B.2 Loan ERV 1,604.73  B.3 Ind AS Adjustment - 1,546.62 - 1  Overhauling Asserts 9:05.77  Subtotal (B.3) 610.85 - 1  B.4 Capitalization of Capital Spares Various Parties 822.19  B.5 Decap of MBOAs (Not Part of Capital Cost) - 5.66  B.6 Decap of Spares: Not Part of Capital Cost - 132,76  B.7 Inter Unit Transfer - 1,921.71  To Unchahar - 3.72	6.00 6.00 	Accrual basis as per IGAAP 6.00	Un- discharged Liability included in col. 3 7,00	759.49 759.49 1,518.99	9,00	Justification  10  This additional capitalization is on account of Revised Emission Standards. The Patitioner has filed a separate Appendix i.e. Appendix-IA with the present petition for determination of the terfor this capitalization Hence, this add-cap is kept under exclusion here.  As per CERC Tariff Regulations 2019, NTPC can directly cleam ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practic Therefore, it is kept under exclusion.
SL. Head of Work /Equipment Party Name Accrual basis as per Note-2 of 88  1	6.00 6.00 	Accrual basis as per IGAAP 6.00	Un- discharged Liability included in col. 3 7,00	759.49 759.49 1,518.99	9,00	This additional capitalization is on account of Revised Emission Standards. The Patitioner has filed a separate Appendix i.e. Appendix-IA with the present petition for determination of the ter for this capitalization Hence, this addi-cap is kept under exclusion here.  As per DERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.
SL. Head of Work /Equipment Party Name Accrual basis as per Note-2 of BS  1 2 3 4  B Exclusions 3 4  1 Combustion Modification Package 1.1 Combustion Modification Package-Unit#5 United United United Total Basis	5.00 	Accrual basis as per IGAAP 6.00	Un- discharged Liability included in col. 3 7,00	759.49 759.49 1,518.99	9,00	This additional capitalization is on account of Revised Emission Standards. The Patitioner has filed a separate Appendix Le. Appendix-IA with the present petition for determination of the te for this capitalization Hence, this addi-cap is kept under exclusion here.  As per DERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.
No. Head of Work /Equipment Party Name Accrual basis as per Note-2 of BS  1 2 3 4 Exclusions 3 4 Exclusions 6.1 Items not claimed 7 1 Combuston Modification Package Unit#5 1.2 Combuston Modification Package Unit#5 Eharat Heavy Electricals United 759.49 1.2 Combuston Modification Package-Unit#5 Subtotal (B.1) 1,518.99  8.2 Loan ERV 1,604.73  8.3 Ind AS Adjustment 7,604.73  8.4 Capitalization of Capital Spares Various Parties 822.19  8.5 Decap of MBOAs (Not Part of Capital Cost) 666  8.6 Decap of Spares: Not Part of Capital Cost 7,132.76  8.7 Inter Unit Transfer 7,372	5.00 	Accrual basis as per IGAAP 6.00	Un- discharged Liability included in col. 3 7,00	759.49 759.49 1,518.99	9,00	This additional capitalization is on account of Revised Emission Standards. The Patitioner has filed a separate Appendix Le. Appendix-IA with the present petition for determination of the talent this capitalization Hence, this addicap is kept under exclusion here.  As per DERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.
No. Head of Work /Equipment Party Name Accrual basis as per Note-2 of BS  1 2 3 4 Exclusions 3 4 Exclusions 6.1 Items not claimed 7 1 Combuston Modification Package Unit#5 1.2 Combuston Modification Package Unit#5 Eharat Heavy Electricals United 759.49 1.2 Combuston Modification Package-Unit#5 Subtotal (B.1) 1,518.99  8.2 Loan ERV 1,604.73  8.3 Ind AS Adjustment 7,604.73  8.4 Capitalization of Capital Spares Various Parties 822.19  8.5 Decap of MBOAs (Not Part of Capital Cost) 666  8.6 Decap of Spares: Not Part of Capital Cost 7,132.76  8.7 Inter Unit Transfer 7,372	5.00 	Accrual basis as per IGAAP 6.00	Un- discharged Liability included in col. 3 7,00	759.49 759.49 1,518.99	9,00	This additional capitalization is on account of Revised Emission Standards. The Patitioner has filed a separate Appendix i.e. Appendix-IA with the present petition for determination of the tafor this capitalization Hence, this addicap is kept under exclusion here.  As per DERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.
No. Head of Work /Equipment Party Name Accrual basis as per Note-2 of BS  1	5.00 	759.49 1,604.73	discharged Liability included in col. 3 7.00	759.49 759.49 1,518.99	9,00	This additional capitalization is on account of Revised Emission Standards. The Patitioner has filed a separate Appendix i.e. Appendix-IA with the present petition for determination of the tafor this capitalization Hence, this addicap is kept under exclusion here.  As per DERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.
B Exclusions B.1 Items not claimed 1 Combustion Modification Package 1.1 Combustion Modification Package Unit#5 Bharat Heavy Electricals Limited Pharat Heavy Electricals Limited Pharat Heavy Electricals Limited Bharat Heavy Electricals Limited Pharat Heavy Electricals Limited 1.514.99  B.2 Loan ERV 1,604.73  B.3 Ind AS Adjustment 1 Overhauling 2 Decap of Overhauling Assets Subtotal (B.3)  B.4 Capitalization of Capital Spares Various Parties  8.5 Decap of MBOAs (Not Part of Capital Cost)  B.5 Decap of Spares: Not Part of Capital Cost  1.52.76  1.52.76  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77  1.52.77	1.546.62 935.77 -610.85	759.49 759.49 1,518.99	7.00	759.49 759.49 1,518.99		This additional capitalization is on account of Revised Emission Standards. The Patitioner has filed a separate Appendix i.e.  Appendix-IA with the present petition for determination of the tafor this capitalization Hence, this addition is kept under exclusion here.  As per DERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practs Therefore, it is kept under exclusion.
B.1 Items not claimed 1 Combustion Modification Package Unit#5 Limited 1.1 Combustion Modification Package-Unit#5 Limited 1.2 Combustion Modification Package-Unit#8 Limited 1.3 Items not claimed 1.4 Combustion Modification Package-Unit#8 Limited 1.5 Combustion Modification Package-Unit#8 Limited 1.5 Limit	1.546.62 935.77 -610.85	759.49 759.49 1,518.99		759.49 759.49 1,518.99		This additional capitalization is on account of Revised Emission Standards. The Patitioner has field a separate Appendix i.e.  Appendix-IA with the present petition for determination of the tafor this capitalization Hence, this add-cap is kept under exclusion here.  As per DERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practic Therefore, it is kept under exclusion.
1.1 Combustion Modification Package Unit#5 1.2 Combustion Modification Package Unit#6 1.3 Combustion Modification Package Unit#6 1.4 Combustion Modification Package Unit#8  Subtotal (B.1):  1.518.99  1.604.73  1.604.73  1.604.73  1.604.73  1.604.73  1.546.62 -1.  1.54	1.546.62 935.77 -610.85	759.49 759.49 1,518.99		759.49 759.49 1,518.99		This additional capitalization is on account of Revised Emission Standards. The Patrioner has filed a separate Appendix i.e. Appendix-IA with the present petition for determination of the tafor this capitalization Hence, this add-cap is kept under exclusion here.  As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practs Therefore, it is kept under exclusion.
1.1 Combustion Modification Package-Unit#5 1.2 Combustion Modification Package-Unit#8 1.3 Subtotal (B.1) 1.518.98 1.4 Combustion Modification Package-Unit#8 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.73 1.504.62 1.505.77	1.546.62 935.77 -610.85	759.49 759.49 1,518.99 1,604.73		759.49 759.49 1,518.99 1,604.73		Appendix-IA with the present pertion for determination of the ta for this capitalization Hence, this add-cap is kept under exclusion here.  As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practs Therefore, it is kept under exclusion.
1.2   Combustion Modification Package Unit#8   Bharat Heavy Electricals   1.518.99     Subtotal (B.1)   1.518.99     B.2   Loan ERV   1,604.73     B.3   Ind AS Adjustment	1.546.62 935.77 -610.85	759.49 759.49 1,518.99 1,604.73		759.49 1,518.99 - 1,604.73		Appendix-IA with the present pertion for determination of the ta for this capitalization Hence, this add-cap is kept under exclusion here.  As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practs Therefore, it is kept under exclusion.
1.2   Combustion Modification Package Unit#8   Bharat Heavy Electricals   1.518.99     Subtotal (B.1)   1.518.99     B.2   Loan ERV   1,604.73     B.3   Ind AS Adjustment	1.546.62 935.77 -610.85	759.49 1,518.99 1,604.73	-	759.49 1,518.99 - 1,604.73		Appendix-IA with the present period a separate Appendix Le.  Appendix-IA with the present period for determination of the ta for this capitalization Hence, this add-cap is kept under exclusion here.  As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practs. Therefore, it is kept under exclusion.
Subtotal (B.1)   1,518,99	1.546.62 935.77 -610.85	1,604.73	-	1,618.99		As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Curreny Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practs.
B.2 Loan ERV 1,804.73  B.3 Ind AS Adjustment	1.546.62 935.77 -610.85	1,604.73		1,604.73		As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Currenty Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practs. Therefore, it is kept under exclusion.
1,604.73	1.546.62 935.77 -610.85	1,604.73		1,604.73		As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Curreny Loans from beneficiaries. Therefore, FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practi
1,604.73  3.3 Ind AS Adjustment 1 Overhauling 2 Decap of Overhauling Assets 1,546.62 -1.  Subtotal (B.3) 610.85 -  3.4 Capitalization of Capital Spares  Various Parties 822.19  3.5 Decap of MBOAs (Not Part of Capital Cost) -132.76  3.6 Decap of Spares: Not Part of Capital Cost -132.76  3.7 Inter Unit Transfer -1,921.71  To Unchahar -3.72	1.546.62 935.77 -610.85	-		-	:	FERV has been kept under exclusion.  This Capitalisation is on account of Change in Accounting Practi
1.546.62 -1 2 Decap of Overhauling Assets 2 Decap of Overhauling Assets 3.4 Capitalization of Capital Spares 3.5 Decap of MBOAs (Not Part of Capital Cost) 3.6 Decap of Spares: Not Part of Capital Cost 3.7 Inter Unit Transfer 3.8 Inter Unit Transfer 4.921.71 4.921.71 4.921.71 4.921.71	1,546.62 935.77 -610.85	•	-			This Capitalisation is on account of Change in Accounting Practi
1 Overhauling 1,546,62 -1 2 Decap of Overhauling Assets -335,77 Subtotal (B,3) 610,85 -4  8.4 Capitalization of Capital Spares Various Parties 822.19  8.5 Decap of MBOAs (Not Part of Capital Cost) -5.66  8.6 Decap of Spares: Not Part of Capital Cost -132,76  8.7 Inter Unit Transfer -1,921,71 To Unchahar -3.72	1,546.62 935.77 -610.85	•	-		-	1 Prevention C. (1) is reget under exclusions Monthly Commission in a security
2 Decap of Overhauling Assets 1,546,62 -1,	935.77 -610.85	-	- :	-		Therefore, this regit under exclusion, Monthle Commission with
Subtotal (B.3) 610.85  810.85  822.19  8.5 Decap of MBOAs (Not Part of Capital Cost) 5.66  8.6 Decap of Spares: Not Part of Capital Cost -132.76  8.7 Inter Unit Transfer 7.921.71  8.8 To Unchahar 3.72	-610.85	- :		-	- 1	Therefore, this regit under exclusion Monthle Commission with
3.4 Capitalization of Capital Spares Various Parties 822.19  8.5 Decap of MBOAs (Not Part of Capital Cost) 6.66  1.6 Decap of Spares: Not Part of Capital Cost -132.76  1.7 Inter Unit Transfer -1,921.71  To Unchahar -3.72			- :		- 1	pleased to allow the same under exclusion
3.4 Capitalization of Capital Spares Various Parties 822.19  3.5 Decap of MBOAs (Not Part of Capital Cost) 6.66  3.6 Decap of Spares: Not Part of Capital Cost -132.76  3.7 Inter Unit Transfer -1,921.71  To Unchahar -3.72				-		
3.5 Decap of MBOAs (Not Part of Capital Cost) -5.66  3.6 Decap of Spares: Not Part of Capital Cost -132.76  3.7 Inter Unit Transfer -1.921.71  To Unchahar -3.72	0.18	822.37				
1.6 Decap of Spares: Not Part of Capital Cost -132.76  1.7 Inter Unit Transfer -1,921.71  To Unchahar -3.72		4	160.33	662.04	17.0	Capitalization of spares beyond out-off date is not admissible as per Tanff Regulations 2019 accordingly the capitalization of thes spares are claimed under exclusion. Hon'ble Commission may be also as a spare of the capitalization of the capitalization of the capitalization.
1.4   Decap of Spares: Not Part of Capital Cost	-	-	-	-		pleased to allow the same.
Decap of Spares: Not Part of Capital Cost		-6.66	9.00	-6.66		Justification given in 'Form-I 2021-22'
1.7 Inter Unit Transfer -1,921.71 To Unchahar -3.72		-		- 1	-	
To Unchahar -1,921.71		-132.76	- 1	-132.76	12	Justification given in Form 4 2021-22
To Unchahar -1,921.71	28				4.7	
was a second sec	-0.29	-1,921.99		-1,921.99		
/ 1 Plant & Machinen 1 4 456 44 1	-0.20	-3.91		-3.91		
7.1 Plant & Wachinery TO Ramaguridem -1,438.91 To Vindhyacahal -3,49	-	-1,438.91		-1,435.91		As per practice, the Hon'ble Commission is not considering the
To the line	-	-3.49		-3.49		Inter unit transfers for tariff, hence kept under exclusion.
7.8 Other Office Equipments TO Singrauli 9.05	-:-	-455.01	4.	-466.01		
7.3 EDP. WP machines & SATCOM equipment		-9.06	-	-9.00		Homble Commission may be pleased to allow the same.
-0.52	-0.09	-0.61		-0.61		e and a second
.8 Reversal of Liabilities Various Parties -98.91	-6.65	-93.56	-93.56	2		Since, tariff is on cash basis, liability reversal is kept under exclusion.
Total Exclusion Claimed (B) 2.408.72 6		1000	- 04			TOWNS THE PROPERTY OF THE PROP
2.408.72 -6	817.61	1,791.11	66.77	1,724.34	-	

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्त्रक (ए-किन्टिस्क) Add. General Managar (Commischil) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

		Year wise Statement of Addition	-1 m - 1 - 1 - 1	200000000000000000000000000000000000000					PAR
100		25th House Statement of Alderbot	sai Capitansat	ion after CC	D .				Form Amount in Rs. La
Name	of the Postioner	NTPC Limited							Amount in Rs. La
Cantil	of the Generating Station	Rihand Super Thermal Power St	lation Stage #						
	inancial Year	27-03-2014	The state of the s						
POF F	stancial Year	2022-23							*
					ACE	Claimed			
		li constant			- AUE	Un-	_	-	
SI No	The street of the street	Party Name	Actrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	discharged Liability included in	Cash	IDC included in col. 3	Justification
-	2	3	4	5.00	6.00	col. 3		_	
8	Exclusions			2,00	6.00	7.00	8.00	9,00	10
-	Exclusions								
11.1	Items not claimed								
	- M. Shenied								
1	Combustion Modification Package			83			18		
									This additional capitalization is on account of Revised Emission
1,1	Combustion Modification Package-Unit#5	Bharat Heavy Electricals Limited	7.53	12	7.53	7.53			Appendix-IA with the research matter for determining.
1.2	Combustion Modification Package-Uni#6	Bharat Heavy Electricals Limited	7.53	(4	7.59	7.53			for this capitalization Hence, this add-cap is kept under exclusion here.
	Subtotal (B.1)		40.00			- 1987	-		
			15.06		15.06	15.06			
			-	-	-4				
8.2	Capitalization of Capital Spares	Various Parties	1.236.44		1,236.44	10.85	1,225.59		Capitalization of spares beyond cut-off date is not admissible as per Tartif Regulations 2019 accordingly the capitalization of these spares are claimed under exclusion. Horbid Commission may be pleased to allow the same.
B.5	Loss Since						- +		
	Loan ERV		2,682,41		2,682.41	- 54	2,582,41		As per CERC Tariff Regulations 2019, NTPC can directly claim ERV on Foreign Curreny Loans from beneficiaries. Therefore, FERV has been kept under exclusion.
8.4	Decap of MBOAs: Not Part of Capital Cost			-					access with midel discretion.
_			-28.48	-	-28.48		-28.48	-	Assistation given in 'Form4 2022-25'.
	ind AS Adjustment		-	-		- 4	47		A STATE OF THE PARTY OF THE PAR
1	Overhauling		1,740.05	4 740 00	-				W
2	Decap, of Overhausing Assets		-412.71	-1,740.05	-		+	-	This Capitalisation is on account of Change in Accounting Practice.
	Subtotal (B.5)		1,327,34	412.71	-	1 +	+		HISTORICAL ELIS KEDI UNDER RECEINENT HISTORICAL CAPACITACION CONTRACTORICAL CONTRACTORICA C
	The state of the s		1,041,04	-1,327.34			+	+	pleased to allow the same under exclusion
8.6	Inter Unit Transfer		-	-		-	4.1	- (4	
5.6.1	EDD WO marking a passage	WR-II Reigur	-	0.00	0.00	27	0.00	-	As per practice, the Hor/ble Commission is noticonsidering the temporary inter until transfers for tariff, hence kept under exclusion.
The state of		THE PRODUCT		0.00	0.00		0.00		forfible Commission may be pleased to allow the same.
B.7	Reversal of Liability		200.00	74600	152000	-	-		
			-15.13	-18.18	-33.30	-33.30	-	- 1	Since, tariff is on cash basis, liability reversal is kept under exclusion.
	Total Exclusion Claimed (B)		2000	-	-				to the board bases, watering remarked its kept under exclusion.
	Action Contined (D)		5,217,65	T 345 51	3,872.14	-7.19	3,879,53	-	

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबम्बक (वाणिज्यिक) Addi. General Manager (Commercial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Nolda-201301 (U.P.)

			-			_	_		PART
		Year wise	Statement of Addit	ional Canit	aliention office	COD			Form
				John Capita	I alte	COD	_	_	Amount in Rs. La
	of the Petitioner	NTPC Limi	ted						
Name	of the Generating Station	Rihand Sur	per Thermal Power	Station St	non III				
Static	n COD	27-03-2014	The state of the s	Surger Su	age-m				
For F	inancial Year	2023-24							
					ACE Clai	lean of			
					ACE CIA	med			
SI. No.	Head of Work /Equipment	Perty Name	Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un- discharge d Liability included in col. 3	Cash basis	IDC Included in col. 3	Justification
1	2	3	4	5.00	6.00	7.00	8.00	9.00	
3	Exclusions					7.00	0.00	9.00	10
_									
3.1	Capitalization of Capital Spares	Various Parties	6,386.27	1	6,386.27	59.80	6,326.47	3.0	Capitalization of spares beyond cut-off date is not admissible as pr Tariff Regulations 2019 accordingly the capitalization of these spares are claimed under exclusion. Hon'ble Commission may be pleased to allow the same.
	Decap of MBCAs: Not Part of Capital		-	- (0)	- 20	7-0	-		propose to allow the same.
3.2	Cost Cost		-15.01	9	-15.01	-	-15.01		Justification given in 'Form-I 2023-24'.
	Decap of Spares: Not Part of Capital		-	-			- +		-
1.3	Cost		-137.77	2	-137.77	8	-137,77		Justification given in 'Form-I 2023-24'.
.4	Ind AS Adjustment		20		+3		- 02	-	March Part Color Co.
-	Overhauling			+ 1		-	-		This Capitalisation is on account of Change in Accounting Practice
	Decap of Overhauling Assets		2,372.27	-2,372.27		- 4			Therefore, it is kept under exclusion. Hon'ble Commission may be
			-2,218.87	2,218.87	-		- 4		pleased to allow the same under exclusion.
	Subtotal (B.4)		153,40	-153.40		7	- 0	527	Except to drow the same dide! exclusion.
				-		431	- 1		
5	Reversal of Liability		-3,43	5	-3.43	-3.43	15	94	Since, tariff is on cash basis, liability reversal is kept under exclusion.
_	Total Evaluates Claimed (B)		-		Section 5		-		
	Total Exclusion Claimed (B)		6,383.46	-153.40	6,230.07	56.37	6,173.70	- 1	•

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिजियक) Addl, General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Najda-201301 (U.P.)

(Petitioner)

Generating Station Rhand Super Thornal Power Station Stage-IS 27-63-2014							
Generating Station Rehard Super Thermal Power Station Stage-III 27-63-2014		tal cost	Statement of		Inmon Lie	aner	me of the Petitio
		7.72		nai Power Station Stage of	Rihand 5	rating Station	ne of the Gener O
2015-28					2019-24		Financial Vest

St. No.	Particulars		2819-20			2121-21			2021.22	-		2011 11			-2000	(Fis Late
		Accrual Basis	Un- discharged Lubilities	Cash Basis	Accrusi Bests	Un- discharged Lishibites	Cash Basis	Approal Basis	Un-	Cash Basis	Accrual Davis	Un- discharged	Cash Basis	Accrual Basis	Un g discharged	
	a) Opering Grass Stock Arreust as per books	5,88,855.78	15,166.63	5,73,990.13	5,04,385.51	14.597.54	5,60,797.97	6,04,265.24	7.0000000	0,01,332.24	0.00,143.55	12.463.99	6,96,679.95	6.13 158.93	11,758.31	0.01,361.4
	b) Amount of IDC in Abo above	55,393.96			55,402,13						200		**********	4,14,114,14	11,296.31	4,61,861.6
	s) Amount of FC in Aret above	1,004.00				-		16,402,33	-		15,405.78			55,405.T0		
	d) Amount of FERV is Also shave	42,626.33			1,004.08			1,004.66			1,004.00	741		1,004,00	-	
	Arrount of Hedging Cost in A(a) above	-			51,191,19	- 1		48,534.75	-		50,139,48	- 4		52,821.89		
	A Amount of IEDC in Also alsoys	17.417.10			17 417 16			August 1				-		200000		
		11,9415.154			17,417.59	-		17,417,16			17,417.16			17,417.16	-	-
	4) Addition in Group Block Amount during the period (Direct purchases)	9,127.03	- 152.43	9.279.40	7170.91	51.38	7,119.53	4906.10	361.71	4,444.39	4376.14	179.48	4,198.66			6,2663
	b) Assount of IDC in 8(a) above				-			-500.10	20,111			1 // // //	1 12 200 23	200	1100.141	0.239.2
8	of Amount of FC in Bian above	-			-			-								
	of Amount of PERV in Dial above	8,004.66			12.666.441			1 667 85								
	et Amount of Hadging Cost in B(a) above				12.000.40			1,604.73			2,582.41	-			-	
_	6 Amount of EDC in B(s) above	- 1							_							
	a) Addition in Gross Block Amount during	586.29	76.17	510.12	143.00		141.00			- Contract			TO ASSES		-	
	the parod (Transferred York CWIP)		100,00	9.00.12	140.00		143.00			354,41	404.30		454.30	7,535.64	205.65	7,330.5
	to Amoust of IDC in Cito above	8.34			_			409.16	64,74							
9	c) Amount of FC in Cral above :							3.45						418.02		_
	d) Amount of FERV in Ctr) above				_		_	-						3.18.00		
	iii) Amount of Hedging Cost in C(s) above				-			-								
	() Amount of RIDC in C(s) above		-	_												
		-					_	-	_							
	et Deletion in Grass Block Amount during the period	183.58		163.56	1424.16		1,434.18	1000000		330.56	783.45		763.45	1,119.54		17757
	by Amount of IDC is O(s) above		_	_	_			336.58		23333	3 22/17/33		700,74	277700.00	3	1,119.5
D.	s) Amount of FC in D(a) above	-			-	-		-								
100	SLAment of FERV in DOLLabore				_		_	-							-	
	Arount of Hedging Cool in D(a) above	-						-	_					-		
	f) Amount of (EDC in D(s) above							-								
	- A				100000000	5.00	15000000000	-						-	1	
	a) Gosing Green Block Amount as per books	5,50,385.51	14,597.54	5,83,187,97	8,04,285:24	12,933,00	5,51,332.24			5,94,679.95	6,13,159.93	11,790.21	0,01,301.62	0.25,649.14	11.168.00	8,54,479.10
	b) Areaust of IDC in E(s) above	55,412.33			55,400,33		-	55,405.78	12,463,98		150 115 1100					
2	61 Amount of PC in Eigh) above	1,004.00			1,004,00			1.004.00	-		55,465,78		0.00	55,823.80		
	d) Amount of FERV in Eqs) above	51,191,19			48,534,75			50,139.48	-		1,004.00		10.00	1,004,000	7	
	e) Amount of Heidging Cost in Egg) above	0.00	3		0.00			20,134.48	_	_	02,821,89		-	52,821.89		
	6.Amount of EDC is Stat above	37.417.16	_		-				- 1		0.00		1	0.00	_	
	AND THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRE	37,917,39			17,417.16			17,417,18	-		17.417.166			- CV00-0-0-1		

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (पाणिज्यक) Addi, General Manager (Commercial) एन टी पी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

						tatement of	Conitat Wo	rks in Progre								PAR
Vam	e of the Petitioner	NTPC Limit	-			and the same of	Caprine 190	rka in Progre	N.E.							FORM-
Vante	e of the Generating Station	Prince Limit	ed													
200		27 On son	per Thormal P	ower Static	on Stage-III											
or F	inancial Year	E1-05-5014														
		2019-24	_													
SL.	Particulars	-	****						_	-						
No.			2019-20			2020-21	-		2024.20							
					=				2021-22	-		2022-23			2023-24	(Rs Lak
		Accrual Basis	Un- discharged Liabilities	Cash Basis	Accrual Basis	Un- discharge d Liabilities	Cash Basis	Accrual Basis		Cash Basis	Accrual Basis	Un- discharged	Cash Basis	Accrual	Un- discharged	Cook B
	a) Opening CWIP as per books	3,138.96	274 05	0.000.00		CHARMONS			Liabilities	4	(1000000)	Liabilities	25/25/2005/2009	Basis	Liabilities	Cash bus
o 1	b) Amount of IDC in A(a) above	532.06		2.967.73	3,924.25	409.31	3,514.94	15,525.45	4,832.50	10.692.92			bumanoon.			Ų.
A	0) Amount of FC in A(a) shrows	205,00			539.14	a contract	-	504.20	4,032,30	10,692,92	31,207.00		20,821.48	42,051.26	12 350 25	29,701.0
	d) Amount of FERV in A(s) above					- 4				1	687.48	10000		908.61	12,000.20	23,791.0
- 1	e) Amount of Hedging Cost in A(a) above					-				-	-			-		
	f) Amount of IEDC in A(a) above	-			36.64	-					-	-			57 55	
	a) Addition in CWIP during the period				30.04	-		158.23			268.88	-		-		
1	b) Amount of ICC in B(a) above	1,371.58	390.84	980.75	11,744.17	100000	-				650,00	-	-	396.41	-	
в	C) Amount of FC in B(a) above	15.42		010.13	65.06	4,643.10	7101.07	15,208.38	5,752.32	9456.06	11,249	2,000	22.00			
B	d) Amount of FERV in B(a) above	-			99.00			86.73		-	721	2,038	9210.49	10929.64	2031,74	8897.90
	e) Amount of Hedging Cost in B(s) above													255.60		
	Amount of IEDC in B(a) above						_		1				-			
		36.64			121.59			440.00	5							
- 14	a) Transferred to Gross Block Amount during							110.75			127			100 00		
- 10	ne penod	586.29	76.17	510.12	143.00									108.55		
_ #	Amount of IDC in C(a) above	6.34	- 1000	212.16	142.00		143.00	408.95	54.74	354.21	404		CHANGE			-
- 10	Amount of FC in C/o) where	9,94		-				3.45			404		404.30	7535.64	205.05	7,330.59
- 19	) Amount of FERV in C(s) above	-		-										418.02		-
12	Amount of Hedging Cost in C(a) above	-		-	_						_					_
-	Amount of IEDC in C(a) above										-					_
10	Delation in Citation of Citation	-												0.05525		
15	Deletion in CWIP during the period Amount of IDC in D(a) above	-	- 4		_			0.00						-35.63		
E	Amount of FC in D(a) above	- 3						-8B2.15		-882.15		_				
d	Amount of FERV in D(a) above	-					_						-	0.00		
e	Amount of Hedging Cost in D(a) above	-				-							-			
- [6	Amount of IEDC in D(a) above	-											-			
		-								_						
9	Closing CWIP as per books	3 004 07	100										-	-		
- 0	Amount of IDC in First above	3,924.25 539.14	409.31	3,514.94	15,525.42	4.833	10.692.92	31,207.00	10.200							
340	Amount of FC in E(a) above	9,29,14			504.20	7 7 7 7		687.48	10,386	20,821.48	42,051.26	12,350	29,701.01	45,445,26	17.000	BB W. C.
[d)	Amount of FERV in files observe	-			-		-	997,46		-	908.61	52550		746.20	15,699	32,746.54
140	Amount of Hedging Cost to Edgl above		-		-	- 5	-	-		-	- 4		-	130.20		-
_(0)	Amount of IEDC in E(s) above	36.64			1		-			-			-			-
		20.04			158.23			288.98		- +			1 7			27.4

परिमल पायूष/PARIMAL PIYUSH अपर महाप्रयन्धक (दार्गादिक्र) Addl. General Manager (Commission) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noid8-201301 (U.P.)

								PART-I FORM- N
		Calculation	of Interest on N	ormative Loan				
Name	of the Company :		NTPC Limited					
	of the Power Station :		Rihand Super	Thermal Power	r Station Stage	:-111		
D33372				A0000000000000000000000000000000000000	Secretary and second		(Amou	int in Rs Lakh
S. No.	Particulars		2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1	Gross Normative loan - Opening	A	3,85,406.39	3,85,969.74	3,86,570.37	3,91,552.48	3,94,071.44	3,94,545.67
2	Cumulative repayment of Normative loan up to previous year	В	1,31,929.71	1,61,707.70	1,91,815.92	2,21,718.48	2,52,248.92	2,82,617.63
3	Net Normative Ioan - Opening	C=A-B	2,53,476.68	2,24,262.04	1,94,754.45	1,69,834.00	1,41,822.52	1,11,928.04
4	period	D	1,109.88	382.81	4,577.57	2,055.20	483.93	5,082.26
5	Less: Decrease due to de-capitalisation during the year / period	E	938.88	126.47	796.61	138.01	514.49	676.74
6	Less: Decrease due to reversal during the year / period	F		) e	3.5	-		
7	Add: Increase due to discharges during the year / period	G	392.39	344.28	1,201.14	601.76	504.79	
8	Normative Loan Closing	H=C+D-E-F+G	254040.04	224862.67	199736.56	172352.95	142296.76	
9	Repayment of Loan during the year	Printed Strike	30138.31	30146.92	30347.15	30631.48	30738.03	30978.3
10	Repayment adjustment on account of decapitalization	J	360.32	38.70	444.58	101.05		
11	Net Repayment of loan during the year	K=I-J	29,777.99	30,108.22	29,902.56	30,530.43	30,368.71	30,305.58
12	Net Normative loan - Closing	L=H-K	2,24,262.06	1,94,754.45	1,69,834.00	1,41,822.52	1,11,928.04	86,476.75
13	Average Normative loan	M=Average(C,L)	2,38,869.37	2,09,508.25	1,82,294.22	1,55,828.26	1,26,875.28	99,202.39
14	Weighted average rate of interest	N:	7.632%	7.577%	7.104%	6.880%	7.270%	7.625%
15	Interest on Loan	O=MxN	18231.23	15873.51	12951.00	10720.40	9223.41	7564.11
15	Cumulative repayment of Normative loan at the end of the period	P=B+K	1,61,707.70	1,91,815.92	2,21,718.48	2,52,248.92	2,82,617.63	3,12,923.21

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (धाणिज्यिक) Addi. General Managela(Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noide-201301 (U.P.)

	Calcu	lation of Int	erest on W	orkina Can	ital		FORM-
Name		NTPC Limi		orking Cap	Ital		
	The state of the s	Rihand Su	man and a second	I Power St	ation Stage	-111	
e No						The state of the s	in Rs Lakh
S. No.		2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite	11,034.21	10454.48	10537.56	10501.35	11018.11	11474.23
2	Cost of Main Secondary Fuel Oil	330.80	366.50	328.70	281.27	359.90	511.42
3	Fuel Cost					200.00	511.42
4	Liquid Fuel Stock		1				
5	O & M Expenses	1,738.69	2134.18	2257.74	2254.59	2398.94	2778.36
	Maintenance Spares	4,172.86	5122.03	5418.59	5411.01	5757.45	6668.06
7	Receivables	33,344.88	25304.27	25244.60	24915.41	25635.30	26763.15
8	Total Working Capital	50621.45	43381.45	43787.19	43363.63	45169.70	48195.21
9	Rate of Interest	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
10	Interest on Working Capital	6833.90	5227.46	4926.06	4553.18	4742.82	5783.43

परिमल पीयुष/PARIMAL PIYUSH
अपर महाधवन्त्रक (वर्णकाविका)
(न दी भी सी लिक्टिड NTPC LIMITED
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Amount in the

SITEC Landed Patrond Super Treatment Power Station Stage III

Name of the Company: Harts of the Fower Blation

DOM: OF	the Power Station :	Hinaso Super (Nervilli Powe	OR OT THE						_	Amount in
5r. Fin	Name of the Party	Harra of the work	Your of creation of training capitalised in Ocuse Block	Underthe god Suppose relating to OB 31 X5 3019	hatrilly in editional copitalisation for 2019 25 stoper america Glicalumn 9	Contractors ETV cartation	15e year 3019-30	the year 2019-20	Osutrarga during the year 2019-20	Underharget Sphiltes relating GB 31 20/2020
111	Ø.	- di	JHI .	196	61	1944	Sp.payment (T)	-focksestner (f)	Telef (B) (C) (E)	100-05-0-663
67 SH14	ra eligible for normal PloE (A)					32 04 380 41			-	35 33 83 907
2	SHOUNDS TELM	TO Consessor	2013-94	97,88,67,119 19,54,01,628 2,77,03,225		9 M.788.61 -1 10 70 848 19	were in	ar research		0.22.014 0.22.014
1	SECURIAR SECTIONS	TG Passana CW System	2013/16	2 (7.00.205	-	14,312.66	27,08,585 M 104,18,386,80	11.46.578 (F 1.30.60.674.68	89,15,080.11 274,71,270,68	1,07,73,052
1	MONAL Y SHARK T BASIS TECHNOLY SHARK T BASIS TECHNOLY SHARK T BASIS	PT part Set tombru	2013-H	13.17.18.240	22		ar something	-		13,17,13,239 WLER DOLESS
		CHP StV Seitchgoor Proceleda	2013-14	48,38,00,368 68,73,985	-	-			1 2	44,75,204 50 46 760
1	ARRICTO MV swistiges: BLUE STAN LTD LLCYD RESULATIONS IN	Ver Versigion	205.0	18,14,268 1,85,57,784		-	00.91.405.60	-	82,01,429,60	90.60.260 90.60.341
4	CROMPTON GREAVES LTD	Power transfersor	2013-14	15.46.219			- MALCONIC		- Balance	90.80.215 31.23.066
51	DE INCH. NOURTHAN RETROA EXCANDERING C	3.T Belotoni	265-W	51,23,968 57,06 kgs	-			-		82,00,115
12	Imperiora India PALL	Det Stat Ca	2014 H	80.00.115 32.87.672	-		13.18.703.60	- 54	13,38,285.46,	7,48,288 27,85,790
14	SWYLES INFRASTRUCTU INFORMAL BULGINGS C	Mendat sid-cinter	2013-14 2013-16	27.86.760 14.81.00.822	-	-		-	-	14,81,00,000
16	RAFLE CONSTRUCTIONS	MESON LANGOUS CAVE. WORKS POR STADE-RI HISIOD PLANT SOURCARY	mes-re-	2.17.747	1.7	.55		35		2,17,147
ir.	Ashey Enterprises	Strengthering of MCH read from rillage Strate to Getyen	3013-14	8,16,160		13	7	- 91		6,15,150
w.	BACHEL REPRESENCETUR	Diversion of East Heliah & recusing of Plant desirage and remarkation of	3013-14	25,73,677		1		61	17.	35,73,477
38	VUM CONSTRUCTION	CONSN OF ROADS, ORASSIN TANAP	3013-14	1,64,498	-				- 17	5.64.480
20	A K VERMA	CONSTRUCTION OF ITS BUILDING AT BHAND Procurement of Perigon	3014-79	8,83,404		-	-	33.	570000	5,00,484
21	ABRO TECHNOLOGIES PVT LTO	Salareing Machine for CRF. Ritland	3014-15	27,508			77,528.00		17,606.00	
22	AGRO TECHNOLOGIES PVT LTIS	Procurement of Entra Heine for Proteine Balancing Machine for CEE.	2014-15	21,816		- 17	21,819/00		21,818.00	
30	DAPHNE SYSTEMPYT LTD	RFID based Automatic Version I de offication and access carried waters. Procus ament of Dev Perm	2014-15	3,56,660	1		2,11,013.00	5,18,867,00	1,56,600.00	1 200
28	GE MEIA HEUSTRALPYT LTU	Meter Colleg Micse Type 8 THE VOTHER NO. OF LINE	2016-05	81,593		- 64				81,590
25	VLAY CONSTRUCTION	ROAD FROM BUPUR SATE. TO MESH PATROLLING BOAD	201415	4.25,640			A25,848.00		4,25,440.00	
28	AKVONA	CONSTRUCTION OF ITS	30%-10	19,080	0	52	-	1.4		10 000
	HIR CORVE GROTHORS	CALIFORNIA AT REMARD CALIFORNIA	2015-16	46.581			141,000,00		3.00 000.00	46.10
71	UTILITY POMERTECHICS	Standard of CHP Commonwell of CHP	2815-16 2915-16	1,54,787		- 4	3,66,275.00		1.00,815.00.	1/07.254
28	S-100107 (1117)	Stock #	- 1							1 16 380
38	AUG STARLTD	NW Switchigent Processors As synthetical	2015-M	1,30,480 3,00,342 34,50,443	- :		- 4	- 6	1.2	15.80
32	ELICYC NGULATIONS IV	Fire detection	2015-16	24,50,445 4,68,062		-	-		- 1	34.58.442 6.66.662
37 34	remon proneumos.c	Elect Edo	2015-18 2015-18	1,871			-	-	-	1,675
н	AAM SECHAR	MIDMENTATION OF ASH BRICK SHED 1.5.4 AND ITS BURROLINGUAG AREA	2015-70	1,64.781		- 4		_ 02	12	136761
*	ламу бимонен	Strongthaming of MGR road there uttage Senati to Sangua	2015-10	53,469		1				13.600
ø.	JAIN TRADING CO	PROCUREMENT OF TUBE MENSUR MACHINE	2015-10	35.465	- 6		_ =	35,406.00	20,496.00	
38	CBR, COMPUTERS PIT	Properties of Printers	2016:16	1,35,535	- 6		02,010.00	1.0	92,010.60	1,00,609
_		Supply of GRE Raisy Parish	2015-10	1,68,000		-	1,66,000 mi		1.89,000.00	
31	BEWOIS LTD	Programment of AC King Color.		-		_	-			49,500
4	REMIDDRAPHICS NO.	(Scatter)	2016-16	JR 900		-	150.00	-	-	1900
4	Some Milleren De	ABOVO DROUT STEERING, GT -Q16-CD CAT To SEASON, MIC STAR	2015-16	8,47,500		-	£47,665 III		8.87.600.00	
e.	WATHER ENABANICOME	Cereiopriors of Area for I substitution of Ture Plans Arth Gross Machine CONSTRUCTION OF	2015-16	1,52,866		- 14	- 1	- 114		1.52,860
e	WALLE, A CHARAN COVE	CONSTRUCTION OF MALE REPOSE HALL AT SANOAM CENTO CLUB & MODIFICATION OF ALIEPTONES RICIAM IN ALM BUILDING	2015-16	130,418		- 6			2.	1.30,456
66	PAWAN CONSTRUCTION	Contain, of Vehicle Wards &	3015-15	1,63,607	-	- 33	(+)	-	1.6	1,80.001
_		Carlo, Shacks If Type & Mass		121.90		-		-		5,29,066
65	VINDHYA CONSTRUCTION	See 110's Construction Forest Buildingers Castle Strilling	30/5/6	136,69		-			- 1	136,408
ar.	MARCITOR CADS-UP-JA	stono with accessorios. Submergence Land Unb 31- 80 Year	3015-16	1,48,90,200		-	+	,		1,48,90(38
48.	BOKAT ENTERPRISES	Procurement of Corticals/Inset Universal Testing Manifola, Departy 509-9	3015-10	2,91,900		- 33	-			251,508
49	ADA TECHNOLOGIERI	Procurement of Pland VPP Base STM Translations	3015-18	30.401		19	96,869/0		18,469.00	
_		Propurer of L2 Lava		7.41.57						2,40,000
50	SVS TECHNOLOGY 58YM	Selt7s. Programment of Victo	2015-15	0,42,000	-		-			247,800
50.	CALA PRECISION ENSIN	Finalism Equational Supply of Nation Installation of	3010-19	2,47,000			-	-	-	27000
10	JACOBER FOLADRY (RES	Supply of number installation of BEO PLATES	100,000	1.07.618		- 3	-		1.0	1,00,616
- 50	SHELL SERVICE IN	50 periodical	3010-17	55 H-428 1 X 66 S24		- 1	-			1,37,66,52
24	TELPRO SYSTEMS LTD	Aut. Neodura	3919.17 3915-17	44.70.076	+	-				44,70,000 15,15,754
20	Phone 50 Private Life	CH!	2019-17 2019-17 2019-17	95.65.754 92.80.178			12(330)	-	151,388.08	10.73.734
95	TAXABLE TARLES	Ac Vertilation	1 20 70 11				3,61,930,00			10,000

ै मिर्सिल पीयूबं/PARIMAL PIYUSH अपर महाप्रवन्धक (वामिरियक) Add. General Manager (Commercial) एन टी मी मी लिमिटेड /NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

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None.	e of the Centipasty : e of the Power Station :	MRC Umited School Auger Thomas	Own Blatton Fire	ox.						
-			Sweet Branch Std	9				_	- Amount is	so. 1
20 10		Name of the work	Year of treation of Mestay tophsheed a Gross More		Contractors DRV updation		ding Dismag 121 the year 3	during Discharges) 000-20 fre year 200	Agricult is Underdarps (addition seaso to 08:31.03.23	C Underto
Of B	table studies for recover take of	(D)	.00			-by payme	et -by.nex	rosal Total		100000
7	SHIP HEW DELFE	50 pageage To Posteur	203-W 203-W		20 FT NO. 10	73,12,005	2 2 16 10 1	perse 19171 no	118 34 43 53 54 5	Danings
1	MCNALLY BURNEY CHICA	COV Sentem CT plant	2013-14		2,54,727.96	1.50.79.109	80 ZM27	44.0E 2.80.32.80	M M. 12 ER FOL 26 M. 26 A T T T 28 2	14.58.40
İ	Flore of Protection Flore of Protection Filter of Protection	Ast Seption	2013-14 2013-14					121,120,0	all and the second	
3	ASSULTE MY switchess BLUE BEART LTD	MV Sedichorus Piecehage Per Vecclietien	2013. U	**	-	1,43,68,270 36,677		11.72 1.45.46.31)	08 15 53 54 360 t	g 16 65 64 5
9	LUDIO MILLATICAS N CINAPTON CHEMATICAS N	Filt director	2012-14		-	90,66,3e1	4.1	10.67	29 35 3957	91 44.645
방	CR. MPTURE ORIGINALS TO SE MEMORY OF SEA PETRON ENGINEERING C	Cycli CodeScore	2013-14 2013-14 2013-14			10.06.324		- 00,00 341	16,60,216-0	16.602
14	SWELLS IMPLASTIBLE TO	Glast Box CSI	2012-14					12,00.351	(E) 18.768 (	0 18.80.2 0 18.16.7 0 63.06.1
15	MATROWN, BUILDINGS C	Man past unl/terney Costra forer	2013-14			27.88.790 3.72.270	6	27,86,700	7.49.200.0 20 May 27.751.0	7,4928
76	MAHUL CONSTRUCTIONS	MISCRILLAMBOUR CHILL BIORRS FOR STAGELS MISCE PLANT BOUNDARY	2010-14						257,747.6	
tr.	Athey Entyrones	Strengthening of MSR load from village Salad In Carry	2813-14				1		4.15.190.0	
*	BASHIL IMPROSTRUCTUR	Diversion of East Years & serouting of Plant chainsgal and remodeling of	2013-14			12.00.038.0		12,40,750	1	11510.00
1	ALRE CONSTRUCTION	SCONSN OF ROACH	2013-14			-746.93	1	200,000		
	A K VERMA	OTAGE BLOSHIP COMBINECTION OF THE BLB CHIE AT REMARD Procurement of Particle	2914-15			0,80,484,00		0,90,1841	0,54,480.00	1.04.400
	ABBO TROMOLOGICE PLY LY	Thank Properties of the Same	394-6					W 3.	85	
	ABRO TEOPHOLOGICA PVT LT	Machine for CHE MPI D based Automatic	291415						-	
	DAR-ME SYSTEM PUT L'ED	Workide Userstington and Unitable control bysides	2014-15						1	
	OR NOW WOLKEN, PUT LTO	Programment of Dear Print	2014:5				-	-	-	
	MUNICONSTRUCTION	STREAM PROM BUPUR QUITE TO MER PATRIZ, UNG SCAD	3014-15						81,595.60	-91,550
1	AH VERNIA.	COMMUNICATION OF ITS	2015-16		-	100 100 100				
	KIRLCHILAN BROTT-LIFE Flyameth Psysteller	SN linter	2015-15 2015-19			40,691.00		76,800,00		
- 4	UTILITY POWERTECH LT	Menagement of Chief Contributioning Activities				33361.66		48,89100	1.86,990.00	3,66,1923
1	AND LTO NO Institution	District 1	3015-16					4	1,67,254.00	1,67,2540
	ACOVERNMENT OF THE RESERVE OF THE RE	MN Syntchigose Pleastage Air Hertilytice Fire deletion	2015-18 2015-16					-	1,30,480.80 8,80,842.00	1,20,460.0
-4	PETRON EMBRY BUTTON	Det Six	2015-16 2016-16			N5049 01		26,504-0.81	10.4	3,00,9427
	WHO WI	AUGMONTATION OF ASH MIROX SHED 3 & 4 AND ITS SLESSOMEDON AREA	2015-18						1,61,062,06 1,875,06	1,676
4	May Criptoness	Bisengthening of MCRI read from Wilage Street to Gample	3015-10						1.5473H.30	1,64,791,0
4	AV TURNIGOR	PROCUREMENT OF THREE. BEHONG WACHING.	2915-16						55-68.00	53,466.0
0	SPL COMPLITERS PVT	Procurement of Perform stockers Personals	30/5/10	- 1						
3	EMINE U.T.)	Shaping of QRF Ralay Panels for Line # 5.	2015-16	0.4		_			10552500	1,00,000 (0
10	DPROGRAFHICK INDIA	Properties of 40 size Color Stansor	3016.18			48,980.80				
4	Mary 1801 melo LIS	400KV Circuit Entenant, CT rq n.B-12- CVT for Shift bysed 82-18	2015-16			40,000,00		06,1002,00	-	-
14	WITH THE PROPERTY CONT.	Development of Area file Installation of Two New Aris	2015/26							
	KTHELY SHEERING COME	DOMESTICS OF CONTROL OF MALE PLANS CLUB & MICHAEL OF CATON	2019-16		+			1	1,82,609.90	1.52.569.00
PA	MAN COMMITTED IN	AUDITORS ROOM IN ADM IRLB LIBEOT Coneto of White Stands &	2015-16			1.30,458.00		13621816	_ 8	
-	AMA/CONSTRUCTION	Street Clear b Street, Scharden H Type & Nissan	2015-16			1.81.861.00		1,80,661.00	-	4
w	Driva construction	Sets 11KV Constaction Pewer Selection Cuine Skilling	2015-18			5.29, WEST, RO. 1.29, 894-00-	2000	52036800		-
Dis	RICTOR CROSS FEE M.	SONO MEN ACCRESIONAS Malmemperco Landillas III. ID Year	2015-16		-	COLUMN TO SERVICE	7.992.01	1,36,438000	-	
Q-	OV ENTERPRISES	Previous of Carquisreed Priveral Telling Risches	2015-10			-			1,48,90,289.56	.1,48,00,206.5W
ADA	1	Total entered of Figure 44-8	2015-18		-	(80,600.do)		150,500,00	1,81,000,00	1.010.00
140	19	100,00mm of 13 LAN							-	1
-	A PRECISION ENTRY	lotton.	M15.66			41,000.00		249,000.00		
-	ORDER POLINICIST ASSESS	colors forcers	201518					-	247,500.00	247.588.00 P
1	NEW DELVE	ED-PLATER .	015-10 PAR-07				1,92,846.80	1,82,618.00		
100	PROPERTY TO	Q Ponelage	117		34	(2,521,24)		54,80,523,61	<b>科技研察</b>	45 F4 459.60
	BUR CAMBRIDE	(P) 2	910-17 9:6-17			10000		COLUMN TO THE PARTY OF THE PART	60,80,804 64,70,019,09 18,18,754,00 A 16,500,00	50 EU HIRI TO 44 (75 (75 ED) 15 (1) TS4 ED 4.10 200 (2)
6.25%	D INGLANDONS IN		016-17 018-37		- 6	50,266.08 18,642.85	-	8.60 306 00	15.15.754.00	15,15,754,00

ਧੁਵਿਸਦਾ ਧੀਧੁਕ/PARIMAL PIYUSH अपर महाप्रकाशक (काशिक्वक) एन टी दी सी लिगिटेंड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

## Material of United Flow

Yes	e of the Power Station :	NYPE Limited Sthard Super Thermal	Tower Station Sta	er .					
de t	Name of the Plarty	Name of the Asia	Year of CHARLEY of Facility Copyliational or Gragge Discol			Discharge during the year 2001-00	Oncharge during the year 2021-22	Overheige during the year 2521-22	
For a	matta etudate for corneal Ruil sto	- 28	HI			- PAY BRADWAY.	-by meaning	Total	-
1	IDEA NEWDELH	SG secretal	2013-14						
- 1	SHELL MENT CHE'H SHELCHSKAR ERCOHING	TS Pacebase Call Ryslem	2013/14			80.8535879	50.41 me ev	REQUIRE YO	34 12 40 314 13 72 48 52
4	MCPURLLY INVARIANT PRODUCT	PT plant	2015-H				-	- SANDARANA	12/2/12/2
6	Plant th Protection Plant th Protection ACCUTO MV surbhaser	Ash handing	2013-14					1	15 17 30 200
- 5	SAUS START TO	SN Beldigue Facecase	2012.14			7,55 (01,000 p) 72,015 (01		2.14 dt.200.00	12,97,56,396
\$	HOYO MOLLATIONS IN	For Mediator	2013-14			25.14,546.00	4,81,713.00	73,145,000 pp.	30,03,03
품	OR DESK NOV. STREET	LT Systematics	2013-14 2013-14				-		1880000
12	PETRON FIGHERAND C	Dett Sca	2013-14 2013-14					-	18,1874
분	ESPECIAL IMPRIMETRICATES	Shirt plant consciouse	2013-14					7	62,60,116 7,48,289
10	BATCHE DIN DINGS C	Copling town	283,614			17, 65,879 (0)		13.15.879.00	14,65,11,022
*	RWHA CONSTRUCTIONS	MISCELLANGOUS COVE, HIGHER PLANT BOLINGAR	2013-14					- 4	1,17,7er
17	Abray Entreprises	Strengtheorie of MGR (cad them offeign Street to Caryo	2013:14					- 24	8.15.100
*	DASHEL SHRAKTRUCTUR	Diseases of Cost Hollan & serving of Plant diseases and remodeling of CONSIN OF ROADS	2013-14			19,29,710.00		15.05.73e ào	
18	HUNF CONSTRUCTION	CONSTRUCTION OF ITS	2013-14						WW.2124
30	AHVIDANA	CONSTRUCTION OF ITS BUILDING AT REAMING	291415						5,64,480
21	ABRO TECHNOLOGICS PVT LTD	Propagation of Districts	3016/15					-	
22	AGRO TECHNOLOGIES PV7 L10	Procurement of Exchitement for Portable Beaming (Machine for ORF)	261616						-
20	DAPHNEL SYSTEM PVT LTD	NPRO hased Automotic Vehicle identification and 80088, satisful senters.	3016-15	3.5					
м	OR FROM INDUSTRIAL PUT LTD	Philippenent of Day Foot	2014-16			91.590.0s		anaece)	
18.	WARY CONSTRUCTION	Materic Printing Mater Types STRENGTHERWAYS OF CIPES ROKE PROVE BUILDING GATE TO MOR PAUTROLL BUT	2016.16				_	21.084.00	
16	A K VERMIL	CONSTRUCTION OF ITS							9
-	KIRLDEKAN BROTHERS	SUBLINE AT REMAIN	Jibtle re						
	Flamen Probletion	CH Semen CHP	2015-W					-	
8	LITELITY POWERTECH LT	Commissioning Annual	2015-10			_		-	3,86,792.00
0	A66 LTD NV andahuser	State 8	\$ 1020 bill				-		6.67.254 rz
	MATERIAL SECOND LATER	MX Butthous Pacabage Bit Nerthalism	3015-16 2005-18						130,460.00
	MITRON ENGINEERING C	Fire detection Street Com	205.8			109 H200		3,80,892.00	3.06.942 BC -3.06.942 BC
	Invitate Inda No.	AUGMENTATION OF ASH BRICK SHPOILS A MID ON	2815-18			-	-	-	BARA952.00
	RAMI BICHAR	SUPPOUNDING AREA	3215.18		-			- 4	1,64,767,00
	Namely Circle prises	Whengthering of MOR road from village Skrods in Gargan PROCEREMENT OF SUBS	2015-16					-	53,489 b)
4	NAME AND ADDRESS OF THE STATE O	BENOING WACHINE	3219.16					+1	3.6
1	OSPLOOMPL/NIERLPVT	Proces errors of Printers of which Perignana	2016-16			85,000.cs		68,000,00	44 (44 44
- 1	HEMINS LTD	Supply of CREF Relay Planets for Unit # 5	2015-10				-	***************************************	14,125,00
1	SEPROGRAPHICE INDIA	Propulation of AD 609 Color	2915-16		_		-		- 4.
T,	Most NO tida (18)	acquiry Circuit Drawnia, CT.	1000000		-	_		12.5	0.9
+	22-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	NAME OF CALL BY SAME PARTY OF STATE OF	3015-18						1.4
1	SALLHETE SHASKING COVER	mission of Two New Astr. SCS Missions CHSTRUCTION OF	2015-10			- 10		Tie	1.52,659.00
1	ACHILY SHAMM CONS	AATPURPOSCHALL ST AAGAN JEWN CLUB 6 ACEPICATION OF ECOTORS SCHOOL WARM	2015-16					-	-
P		RELIGIOUS CORES. of Vehicle Standa & Costo Over a	3015-16						
je	AMAN CONSTRUCTION (5	erns Studen & Type & Moon	2015-16					-	- ''
V	NOWA CONSTRUCTION	16'V Excelution Power witchgood Cable Stations 908 Mill abouted les	2016-W				-	-	- +
Ď	RECTOR 0405- UP JA P	convergence Land Liab 21 - 1	2015-18						-
0	KAT ENTERPRISES U	Yest Keinmeners of Computerses Hversai Teding Markins	30% 94		1	171.808.0E		(21,000 to	PE 06, 000, 60
40	A 1909-MONDRES OF	specy 8090s Source of Fluid Visit Se STN Transpose	2015-00		-	11/10/05	-		-
90	S. TECHNIC PARTY ARTES	ocurement of L2 UAN	Marie La					-	-
10	9	Mr.	2015-18					+	43
104	Pr.	Selection Separated and Selection	305-95		2	47,500,00	- 2	47,800.00	-
	EDEEP FOUNDTY (SECS.	BOY 10-510 Patellation of ELFLATION	3016.16						-
	The second secon								
	BL NEW FELDY SL HOW CRLH	DECHARGO	S\$10-17					- 1	(A) exercis
点	HENCELL TO	Stoktae Philips Neeting	2016-17 2016-17					+ 1 - 9	104.604.80 LB2.000.34
題	L HOVELH STANDARD IN STANDARD	Stoktae Prisation Cheeting	2036-17			14.502.60		+ 1 - 9	104 com sq 162 mon 14 170 com 16 170 com 16

परिमल पीयुष/PARIMAL PIYUSH अपर महापदण्डा (दाशिरियक) Addi, General Manasper (Commorcial) एन टी दी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noide-201301 (U.P.)

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2844	-	 1.149	COR.	-

Name	e of the Company: a of the Finero Blation:	Miles Limited School Super Thornal P	Indust Statics Sta	-						
-										Annuard 5
2.1		Name of the reals	Tree of creation of leability copilations in Chross Sleck	Underchanged Highlines selecting to 00 81 (42003	Fathing in additional depindreutice for 2003 23 st per attribute Buodynes 8	Considera BTV spitalor	Olecharge &	Deche ducing the 2023-1	pear Discreage dur	Underland
II Ser a	digets etherals for normal bour car	Di Di	- 141	URBONE-BEE			- Accuses	ert - Ale nove	read Total	
-1	SEL SENDER SEL SENDER SEL SENDER	50 satisface	2813-14	14,12,613,434		\$1.50.205.00	10 FF 10			
-3	UPLODEAR SECTIONS	TO Papasas Citi Assen	2013-14 2013-14	15,72,48,537,35		6.76.403.19	51.50.315 £ 12.40	138	\$3,56,206.6 8,76,403.1	
- 1	MUTUALLY RECORDS PROTEIN	PT plant	2013-94	1.00			-		-	C INCHES
-8	TECHNO SHIFTING LYD Fluid St. Phase Lim ASS L TO MY assistance	Ash handless ICHE	2013-14	12 67 10 278 56 12 67 54 349 05						1317.18.28
+	MAGE CID MV switchgest	Jahr Vertigeer Facetack  Jahr Vertigeor	2013/14 2013/14 2013/14	42.82.517.00	1		3 St. to god	.08	2,66,00,000 B	10,41 84 38 43,02 51
-8	ULOYO MELLATIONS IN	Fine detection	3013-14	-						49.00.25
77	DRUMPTON OPERATE LTD	Pener Introducerar LT Septiment	2013-14 2013-14	18,80,216,00						364575
13	PETRON CHICKERARISI II.	1014033400	2019.34	19,857 (6.00 40,857 (6.00 8),80,118.00			82,09,170	tio .	44 W 1997	10.50213 50.10749
14	SMPLES INPRASTISACIO	Men plant collicio sea	2013-14 2013-14 2013-14	7,49,208,01			7,372,450	10 7,000	80 F. St. 200 C	3928
15	PARTICASE DESCRIPTION C	Coping time	2010-14	14/55,11.872.68						24.88.11.872
*	MARIL CONSTRUCTIONS	MISCELLANGOUS CIVIL INCRUZI FOR STAGE-IN INSIGE FUNT BOUNCHIS	žiris tz	1.17,745 (0)					-	2,17,742
17	Alloy Delegation	Brangthening of MGR road From ollege Strati to Basya		6.15,100.0E						EH5.100
u	BASHEL IMPROTEICTUR	Diversion of Sout Hallan & remoting of Plant dissings 808 camerboling of Cookers, or ROADS.	2013-14	935					1	
10	VUAY CONSTRUCTION :	CONSV. OF ROADS. DRANS IN TISHIP	2010-11	5.64,486.80						
20	AKVERMA	CONSTRUCTION OF ITS	2014-15				-	-		5,86,694
54	Admin mention at the con-	Presument of Postable		-				-		
20	WHO TECHNOLOGIES FUT LT	Programment of Eating Service	2014-10							
20	ANNO TECHNOLOGICS PATELT	Ti for Portable Ratemany Maskins for CRE RFID based Automatic	301615							
29	OR NOW HOUSTRAN PATE TO	Retricts tokestifustion and BEDMS soldfull system. Pronuments of Don Point	2014-15	-						
-	DE LOS MODERNOS PALLES	OTHER STREET OF LEGS	2014:18							
26	VLW/ CONSTRUCTION	ROAD PROMIBURUS GATE TO SIGN PATROLLING ROAD	2014-11	-						
	A E VERMA	CONSTRUCTION OF ITS	2015-18					-	1.1	
17	PLANCE PROBLEM	SW. Switett	2015-16			-			117.4	
15	FLINOR-POLISCIA	Minagement of CHP	371678	3.86,182,00			_		- 1	3,000,1102.0
9	THITTY POHERTECHLY	Commissioning Additions	3015-10	1,67,354 00						7-500
8	AND LTD Mit and report	State of Michigan Pacalage	2015-95	1,50,450,00		_			1.5	1.67,858.00
2	LUCYD INSULATIONS IN	Ar Ventiston	2015 N 2015 N	3809038 3809030						1304000
9	PETRON AND MEDICAGO Acompos Jeda Pvi L	Med Dip	2015-W 2015-W	6.48, 952 00	-		0.08,082.08	-	******	300947 0 -300947 0
8	MAN BOWA	AUGMENTATION OF ASH BRIDE SHED 1 & 4 MID ITS	2013-16 2013-16 2016-16	1,64,791.00			3/84/761.00	1.875/6	0.68.062.80 1.808.86 1.84.761.00	
ı.	Алау Сезерныя	SURPOUNDEDD AVEX. Shengthening of MGR road from rillage Sevent to Demost	2015-10	\$3,666.00			1000		2000000	
	ANV TRADNO CO	PROCUREMENT OF TURE BENERVE INACHOR	2815-19			-			-	83,480,00
	CSPL SOMPLYWAS PV7	Procurement of Ponters	2015-16	William .		-		_		
	REMOVE CTD	White-Paraboson Supply of CRF Reby Panels		98,525.00					-	35,575.00
	REPRODUCTION OF THE PARTY OF TH	Procurement of AC ware Color I	2015-19	-		7			+:	+
-	REPRODUCTIVE SELLA	Station	2915-16	-	-					
1	Aleken TSD India Ud	ACRES CAST DE BATRICAS ET ACRES CAST DE BATRICAS BE EL	3015-18							
	MATTHELY SHAMAN COSIS	Development of Area for Installation of You New July Book Machine	3015-10	1.52.809.50			1,52,009.00		150,000	- 7
-	MYTHY SHARWICONS	CONSTRUCTION OF BRAITPURPOSE HALL AT SANGAW EDWA CLUS & MCERPICATION OF AUDITORS ROOMIN ADM BURLONST	2015-15	134						
	PWWWH OCHSTRUCTION	Constr. of Vehicle Stands &	2015 Ye					-		
1	NAMAN CONSTRUCTION	Corn. Shoder & Tyse & Mon	2015-00						1	- 1
1	AND-WA CONSTRUCTION	1190' Combrotton Pales: Seltchgow Calke Birthing	2015-16						- 1	-
t	WESTOR CADO LIF M.	Submorgency Lend List 21- 60 New	3015-16	1,45,90,286.56		1	15,60,414 79	75-29-854-81	1,48,00,280.90	
	NEAT DITTIFF REALS	President of Computersals Universit Testing Machine Casselly 5506V	2016/16	3.5						
-	DA TELEMOLOGIES	Photogramment of Photol Unit time STN Transcoonver Packs Stn.	3015-16	8						
8	NE TRO-NOLOGY SEGN	Proceeded of LT LAN	2015-10	-		-				
G	ALAPSSCHIEN PAPER	Properties of Wilso	2015-16						= + /	5.5
+		Telephonic Responsed	The second second	-						14
-		SED PLATES	2015-16							
18	SL NEW DB.H	G Dockson	2016-17 2016-17	E3.04.408.00 62.82,098.04					-	6504-229-65
-10	amonto Privato Lica.	Whitending	201-17 201-17	62.50.098.54 AL.70.075.08 15.15.754.08					-	<b>有程度計</b>
10	CHESTALANSHER P	N. VMCANGOE DELASORATION	215 Y							15,15,751,50
los	DOMETON GRANNING LTD.	treft thirliforms	200.0	The second						

परिमत्त पीयूष्/PARIMAL PIYUSH अपर महायबन्धन (वारिग्रियक) Addi General Manager (Commercial) एन टी पी सी लिगिटेड /NTPC LIMITED €0C, A-8A, Sector-24, Noida-201301 (U.P.)

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## Stitumed of Linkship, Down

	of the Power Station :	Alband Stager Thermal Pow	1					/	100	Second in I
ic no	Name of the Party	Name of the scale	Year of creation of highlity cophalosed in Ghook Block	Underharped Rehinder solding to SR (11.04.0028 E	Rapidity in additional captaintation for 2003- DK as per annexon 63- column 8	Cermedon ERV updation	Discharge during Perpair 2023-24	2023-24	the year 2023-24	Undercharge satisfies relati to 00 01:00:20
125	- 23	DL.	- 16	(101-15-0-5A-8)			68 25 63 34	-tw/myarad	Total	
or ini	lets etigible for normal Roll Uti 18HBL REW DELHI	50 processo	2023/4	34 (283 3)434		27.40 TS 681 W.	100000000000000000000000000000000000000			
7	BHILDEWIELE SHILDEWIELE GROSSHIECTHERS	TO Program GW System	203.4 203.4	12.72 (8.327.29)		15/10/0	3.00.44 2.77 20		3.53.46.217.32	28.21.83,138.1 13.74.82.637.6
1	TECHNO SYSTEMS L'TO	SPT plant	2013-14 2013-14	0.80						0.0
+	IF LBTH-CS Private Line	At lankin	2013-14	10.47.16.229.50					-	13 17 10 219 6 15 41 54 390 5
7	DLUZ STAR (10)	OH! Mr Suttrace Passage At XXIII also	2013.14	10.41.94.386.10 40.02.512.60					- :	83,82,512,0
1	ULOYD INSULATIONS IN	file district	2012-14	- construction					1	
11	CHOMPTON CHEAVES LTD GE INDIA INDIGNIEAL	Power transformer LT Sinds Open	20/3-14	95 RD 76 90 10 10 76 90						18.65,219.5 18.15,745.5
0	PETRON ENGINEERING C. Incomps lode Pol L	Sint Car	2010-14 2010-14	19.28-97						
15	RMMLEX NUMBER TO CTU	Man data distriction	2013-14	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						19,209,5
н	RAWA CONSTRUCTIONS	Contractors CN4, WORKS FOR STAGE 41 MG DE PLANT BOUNDARY	2013-14 2013-14	10.NF.00			1,02,07,000,00		122.07.844.08	217,767.0
w.	Africa Enterprises	Strengthening of MGR road from vitage Street to Serveri	2013-14	8,15,100.00					0.8	8.15,100.0
u	BACHS, REPARTIUCTUR	Direction of Cost harts & Medicing of Plant dramage and separation of	2013-14						-	-
10	MUNY CONSTRUCTION	CONSN OF ROADS	3013-14	3,64,486.00					100	104.490.0
28	AKVENA	CONSTRUCTION OF ITS	2014-15		-		-		-	104,4803
-	- HALLISON	PRIORISE AT REMAND	2014-15							
21	ABRO TECHNOLOGIES PUT LYD	Malaning Medine for ORF, Strand	3014-15	- 1				/		
72	Admo Too Hologies PV/ L15	Procurement of Subs times, Nor Pertable Selpeding Machine for CISE. 19710 based Automatic	2014-15							
22	GMM-045 SYSTEM PVT LTD	Vehicle (send Automatic Automatic carried workers Procurement of Davi Phana	201419						- 2	
34	GERDA NOUSTRIAL PYTUTO	Material Control of Line Trans.	2018-15	7.1					58	
28	VUW CONSTRUCTION	TO MISR PATROLUMS	2014-15	18					(4)	
28	ARVERMA	CONSTRUCTION OF ITS					-	_	_	
27	NIFLOSKAR BROTHERS	SALDING AT REHIND GN Busine	2015-18						(-)	-
28	FLASH BY, Private Lim.	GHP	2013-76	3.85,102.05						3,86,192,01
5.57	Unions Powerment of	Management of DAP Commissioning Automiss Street	2015-18	1,07,251,00					4	1,87,254.00
35	AMBLITI MV setshaer Buck STATUTO	MV Systongess Pocesace Air stediumos	2015-19	130,46000					- 4	1,30,450,00
32	LLOVO RELEATIONS IN PETRON ENGINEERING C	Fine delection	2915-11	4.00 M2.00					-	180 HG 00 -0.80 HG 00
	Janacaya Japa Pet L	Cled Ego Call	2015-16 2015-11							
ĸ	RAMIRCHAR	ALABAMATANION OF ASH SPICK SHED 3 & 4 AND ITS SLAROLANDRO AREA	3015-10	- 4						
26	Astray Simegrous	Stongthening of MSR-road Over village Siresh to General	20541	89,466.00					=:	\$3,000.00
37	JAN TRADNO CO	PROCUREMENT OF TUBE REPERKS MICHINE	2015-18						-	
18	CBFL COMPLITERS FYT	Processing of Printers strain Personals	2019/06	36.825.09					-	\$8,626.08
39	SIDIENS LTD	stick for Personalis Supply of CRET Relay Flances	285548						-	-
40	PREPRIORINA PHOSINDIA	From terms of All stop Color	2015-16		_	_	_	-	-	_
		Scener 4000 Circuit Breaker, CT	21/2/19	_				-	_	
	Alaton T&D India Ltd	4) MKP CVT for Switchyard ST-II Development of Arwa to:	2015-10	-				_	- 2	+
40	MATHLY SHARAN CORE	SCHOOL CT ON OF	3015-10	-		-	_		11.63	+
	MATHER SHARAN CONS	MODIFICATION OF A MODIFICATION OF MODIFICATION OF AUDITORS ROOM IN ADM BUILDING	2015-16	(±)					2	-
4	THINKS CORESTRUCTIONS	Coretn, of Workside Standa B. Occass Green Is	2815-18	- :-:					+1	-+
4	The series in th	Core: Shakles & Type & Move Extr.	3015-16	(8)					- 7	- 7
6	VINCHYA CONSTRUCTION	11/0 Construit on Power Surbifigeor Cytile Shifting stons with accessories	2015-10						-	+
o.	DIRECTOR SILDS-UP.M	Submergence Lend Link 31- IS Tale:	3015-10							-
4 1	EMOO' ENTERPRISES	Procuposant of Computerment John and Testing Machine Departs 500kM	2015-10						T	
n .	ACK TECHNOLOGIES	Notinement of Fined WEF once SIN Transactions Selected	2019-18	10					1	
90 0	tile remission ofter extress	New smeet of L3 CAN Sector.	2915-16	-					-	
0 0	tal A Septemberral September	focurement of Vitre	2016:18							
-	MODEST ON MEDICAL SERVICES	Schlane Epitopiani Septy 1944 y Astaliatus of	2015-10					-		
5 6	HEL NEW ORCH	SCHOOLS SAND	30%-17	81.02.63K/M						4004 (100
4	SHEL MEWICELINE	G Pacakace	2016-17 2016-17	#15 00 W #15 00 W					- 1	63.04.426.60 62.82.656.24
0. 17	The same of the sa	sti herstina	2050	13,73,734,00						44.10 (FEO) 65.157(4) (8
16	LOT WAS LATONS IN STREET ON COMMENTS	Vertical pro	2016-17	- No. 18-1 (SALISA)					-	10.15 / 94 / 95 4

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (काणितिकाक) Addl. General Manager (Commercial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sactor-24, Norta-201301 (U.P.)

								MPC Limber		arise of
Amount to N						-18	Stotian Stage	Rhard Sane Thomas Pursu	the Power Station:	and of
Christianand scholar relating to 28 20:00:2028	Discharge-fluting the year 2018-20	Skallinge dating the year 2019-20	Derharge Auley the year 2019-20	Connection DTV speladary	Sability is additional regularization for 2019 201 on par american Michigan 9	Understarged Substitives relating to GB-91 25 20 10	Vess of resulting of highlity septratized in Gross Stock	Name of the work	Name of the Party	, Nan
(10/15+8+6A-8	Total (0.4(7+8)	Jay seemed	-by payment	260	- 46	-				
5 15 580.00	100.00		- 01	10%	- 101	- P	- (0)	-0)	to oligible for expend field MC	20
2.82.58,765.5	-		- 1	-		2,62,18,746	2015-17 2019-17	Elect East Ingo plant as itemas	PETRON HYGIPSAHNYG C	80
14,75,089,00	-			-	- Indian	14.75,099	2918-17	Cooling tower		82
7,38,385.60	-	-	- 1	-	- 1	1,40,390	2818-17	MUSIMENTATION OF ASH ISBOY, SHED 3 & 4,440 FTB ISBORDLINGS ARGA	Nestons	63
1,00,00,020	- 1	- 4	9	-	- 0.0	1,46,86,122	2016-17	Strengthering of MOR tolel Ferre vitage Second to Georgean	Apolog Estimptions	69
3,64,807.00	7,12,260,00		1,12,362,00		( )	4,77,904	2016-17	GIVS, WORKE FOR SEYMENTION OF DIMINIS FOR ZERO DSCHWIGE AT STYC SHRME! STYRINGTHENING OF LINE	WUKE CONSTRUCTION	66
-	4,79,813.00		1,25,311.00			4,26,013	2016-17	ROAD FROM BUPUR GATE TIO MOR PATROLLING ROAD	WJAN CONSTRUCTION	șe.
UN39454		141	-	+		1,78,394	2045-17	Progutament of Multimedia	CBPL COMPUTERS PVT	0
19.11.800.00	- 59			-		19.11.000	2016/17	CONSTRUCTION OF (f)		
12.91.801.00	6,70,825.00	(2)	0.70 ATM 00	100		No. of the last	33 - 34	CONSTRUCTION OF HON	N. STEINER	-
22,00,016,00	877,313.00		876,425.0E		15.0	47,68,308	3016-17	PRODUCTION OF NON	A.K. VERMA	m
2000100	8,77,243.00	-	0.7734500		107.	28,85,921	2015-17	PACKAGE!	A K VERMA	70
	31,225,11		39,228.11		9	31,225	3219.17	GROUTING OF MICHOR BOLTS FOR HISTAULATION OF BIG PLATEGIN FRANCISTON BICE: 1 & 2 HISANY MICHIES SHOP PLOOR IN PLANT AREA	CHALLANY BROTHERS COMMUNICATION	21
17,61,311.00		1+0	-			126120	3016-17	Laying of 132NV cable for 67	DISARCELECTRICALS.	-22
3,01,000.4						3,01,985	2018.15	CONSTRUCTION OF PRODUCTION OF LIGHTING OF AWAS STUDIES LIGHT	D 6 5HOH	.19
72,240.00		(4)		- 7	- 02	72,348	2816-07	Core. Strades & Type & Mess	PANAMEN CONSTRUCTION	74
	74,723.00		74.713.00			74.729	2018-07	AN CONFERENCE DYSTEM	HITECHAUDIC SYSTEMS PAT	_
	18,700,00		10,700.08			1000		LACOURTABLE BATHAIN	1.10	75
	7/19/2000	-	100000	-	1.2	10,700	2016-07	800	WARK HEALTH CARE PYT LTD	TS
97,46,429,11	7.0				55	17.4i.68	2015-17	FEE FOR RRELWAY SORVE AND SET SYSTEM ALCOMENTATION AND ASSOCIATED SELECTRICAL SYSTEM PACKAGE FOR RHAND STEP, SHE	AFFER LTD	17
4.53,75,864.4		33				4,55,73,604	301817	PALWAY SIDING AND SAT SYSTEM ALBRIDAN TON AND AGSOCIATED SUBSTRICK. SYSTEM PALCADE FOR REMAND SYRP, STAGE-II   2 x 500 MRI).	RITESLITO	79
6,34,572.9			+			43450	2916.17	BALJIAY SISING AVE BAT SYSTEM ALBACATATION AND ASSOCIATED SLIGHTRUCK, SYSTEM PACALING FOR REHARD STREET, STAGE (1), 2 × 108 1881.)	RTGSUTO	24
0.0	08,008,00	1.1	18,000.00	-	137	90,000	2016-17	FAR COLING 1200HM SWEET	USHA INTERNACIONAL LTD	ôE.
-	1,13,008.00		1,12,090,00		-	1.12.000	2016-0	FIZEROPH HODRALUC	STEAM HE INDUSTRIES LTD	91.
2,48,604.0		17.	- +	-		2.45.504	2016:17	Construct Strange sheets in	CEAL ASSOCIATES	92
2.00,924.0		7.4	+		- 34	2,00,004	2016-17	Control Sters Const. work for PCC males	DEAL ASSISSIATES	-
9,72,816.7	123	- 1			-	9,72,815	2016-17	Carestruction works of		81
	145,830.00		1,00,000		_	-	-	Procurement of Multiples	DEAL ASSOCIATES	84.
44,000	1,2,3,1	- 1	Carpano			1,40,000	2016-1T	Epilonet Supply, Imhalatan & Commissioning of EUT Grame	COMPONATION LTD	
126,000.0	-		_			1701117		TRING CHI	LINGUE INDUSTRIAL HA	*
2 31 338 8	-	- 1	-	55		1,38,000	3016-TT	SERVER LICENSE	INDORE COMMUNICATION MID	87
3:17:3610	(4)	=				2.19.197 E (2.341	3016-17 3016-17	Demonstrat RCC Rose CONSTRUCTION OF WIRM ROSE NAME (NAME) SASAN(T), SANHANDI, WICE DECISA NI LLAGE TO COMMET INMUTH-CRISSO LEVIS, CROSSING WITH JOTHORN SERVICE (CROSSING UNITH JOTHORN SERVICE)	PARAMA ENTERPRISES	50
4.32.606.0	8		-	1.5		A 22 309	2015-17	SOCIALISTICS OF BALLASTLESS THACK & MISC. CIVE, WORKS M	PANNAK ENTERPRISES	(e
-	18,564.00	4	16,144.00	-	1	10.144	2016-07	PLANT AREA 061969 20.78	WATER EMPLOYEES	-
7,600.0	2000	- 4				-	-	100000000000000000000000000000000000000	CONSUMERS REGISTO EMPLOYEES	(B)
12531291		1 6				2,25,33,307	7876-17	AMOFISALV Switchsoni Supersius Package for	CONSTRUCTS  Result Heavy Clerk	80
7	86,000-00		86,000.00		_	0.0000000000000000000000000000000000000	100000	When STEP, Majorill IS ONE THE SECTION A		-
	30,000	-	86,000,00		-	88,500	2015-17	PRINT ACCESS SYSTEM	STAR LINK COMMUNICATION PAT LTD	94
110,10,002						216.48.412		Mily and swepts of		

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रध-व्यक (दानिविकात) Addl. General Managur (Consulted all) एन टी दी सी लिमिटेड/NTPC LIMITED EOC, A-8A. Sector-24 Noida-201301 (U.P.)



			March 18			april 1	_		Amount in	Fall .
iir 790	Halle of Fie Plany	Hereo of the nois	Year of creation of limiting capitalises in Brings Black	fability in architorial restrollation to 2020 31 As per progues (Bicolume 8	Destruction EVY solution	Distriction during the exact 2000;	to Dealings during The year 2006-2	g Diechaige élev I life year 2000-2	Underharged National Park and Street to GG 21 23 212 W	California o
or and	edit at in his for some at their co	- 31	(4)			- Of Statement	-by mensual	Total		-
- 55	PETROLLINGSOFTPHOCO SMPLEX SPEACHS COLUMN CO	Black Black	3596-17							(Eleg-
60	WATCHAL SULDNESS C	God to Jover	2016-17 2016-17	-		1,02,77 855.6		1,8277,830,80	5.10.590.6	179.4
63	RANGEROUS	ALKINEVENTURE OF AGE	0 0000000000000000000000000000000000000			-		12701200	178.00.811.81 (A.15.196.0)	14.7
300	(0.000)	SHEED 3 & 4 AND 11 SHEED HICKO ARCA	2016-02	Maria					1,46,356.0	
64	Althor Scherprises	Strengthening of MIST read	2016-17			10000			12000000	100
***	-,7,00110000	DIVL WORKS YOR	and the second			17,82,959.00		17,02 Set 50	123,77,567 (6)	1,29,77
65.	M-JAP CONSTRUCTION	STANFATOR OF GRANGE A FOR ZERO DISCHARGE A RUTE DISCHARGE OF LIN STRENGTHERING OF LIN	T 4915-02	1	-			- 4	164607.08	1,84
=	WAY CONSTRUCTION	ROAD RROMINUPLINGAT TO MOR PATRIO UNIO	3045-17							
FF. :	CSPL COMPLYERS PVT	POAD Properties of Materials	10000				1			
60.	A K VERNIA	CONSTRUCTION OF ITS	2916-17					- +	17839434	1.78
500.	D.D. VICTORY	DUSCONS AT REMOST CONSTRUCTION OF NON	2016.17			10,30,043.80		18,16,040,00	12,067,08	-
OK .	A.K.VERMA	TAXABLE MALE OF THE PARTY OF TH	3016-07	-6			-	1001007000	16307.00	- 10
		CONSTRUCTION OF NON						3.5	10.91.801.00	32,91
80	AKVERMA	PHONOGET BUILDINGS	2815-17					100	27,79,510.00	22,08
	CHICHAN BROTHERS CONSTRUCTION	SACUTING OF ANCHOR SOLTS FOR BRITISLIATION OF REP PLATES IN PREFICATION SHOP. 1.8 2 HISWY SPACING SHOP FLOOR IN PLANT ASSA	2016-07					141	-	
7	RS & RC ELECTRICALS	Laying of 1356V cable for 18	3016-17		-					
		CONSTRUCTION OF	- avierii					-	1281,21100	12:01
1	D.K. SENGH	PROMITALS POPULAYING	2019-17			3.01.990.49		131 105 46		
	MARK CONSTRUCTION	Core. Shades & Type & Many	2016-17	_	-	-	-	200,000,00	23	
	TECH AUGIO SYSTEMS PVT	PA CONFERENCE SYSTEM	7			72,266,00		72.246.00	2.1	
-	JD		3016-11					-		
+	MARCHEALTH GAME PUT LTD	Sept.	3016-07							
	rres Lrib	PEE FOR RAILMAY BONG- WID BY SYSTEM AUGMENTATION WID ASSOCIATED ELECTRICAL SYSTEM PACINGS FOR SHAMD STIFF, SHIE	2046-17					-	87.45.428.10	17.45
0	TERATO	PALIBAY SICHED AND BET SYSTEM ALIGNENTATION AND ASSOCIATED ELECTRICAL DISTURN PACKAGE FOR REMARD STOP STACKERS (2x 500 RBAY)	XXXII.						450,72,884,44	4.59.72,0
*	164L7D	PALVAY SIDING AND BST STSTEM ALREMENTATION WID ASSOCIATED CLEINS DALSTOTEM FOR DESCRIPTION STST. STRUMBERS (2x 808 WW)	2016-17					3	43457250	6,34,95
Lis	THE INTERPRETATIONAL LITTLE	EAN CEILING TOTOMAN BANKET	2016-17						-	
sn	NAME OF THE PARTY	1 TOWNSHIP HER RALLIS	2015-07						5.00	
-	OIL MORDICIATES	Construct of Biorage shade in	-							
+-		Ceret Work for RCC water	2010-17						240,994.90	2.40,50
100	AL ASSOCIATES	Sens not how	3016-17						2.95,824.00	
-	AL ARROCIATES	Canabiados works of serversos	2016-17							2.00/934
Co	HANT NOUSTRAL	Procurement of Muliphy Environment	2915-12					-	A7281471	8,72,614
	OLIN INCLUSTRAL HA	Repply, Installation & Commissions of POT Crane	2016-17					-	A market	511.5
10	ONE COMMUNICATION AND	SS FIRST CREEK GINES IN	2006-07						4.49,438.00	1,61,09
-	IMAR DIVISION IN	SCHARLICANSE Construction of PCC Forest	2016-07						1.28.00000	1,28,000
DWD	MAN STATEMENTS DES	OCHSTRUCTION OF WIEW ROAD NEWS KARALITE, SWARKTLEWINNING AND DEDGA VILLAGE TO	30%-17	K		2.21.386.80		2.H 338.86	7,17,341.08	7,17,201
100		CONSTRUCTION OF BALLASTLESS TRACK & MSC CHIL WORKS IN BANCAMER	3006-17					-	4.22.800.00	472,800
	IN AMPLOYEES	mediane in the	2019.17					100	-10000000	
201	PP DIRECTORS	CONTRACTOR OF THE PROPERTY OF								E-
2024		Head Dark Doles 2 TH 400/132Nix Seatsbyees	71-00/05		- 1			17.1	7,508.80	Tiste
200	F PROPE CHICAL		0076-TF		10%	28.879.08	7.29,915.80		90.83,613.00	200,000
PATE	7.0	WENT SCIENCE SYSTEM	918-17					1		
GAT	WHITE & Could 1	Ply John Branch of	D16:17	ল বীযুদ/P		-	_		-	
	SE IL MOOF COMPAN								A.18.412.08	

परिमल पीयूष/PAR MAC PIYUSH अपर महाप्रयम्भक (चर्तागाज्यक) Add. General Manager (Commercial) एन टी ची सी लिखिदेड /NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

## Between of Linberg Flow

	of the Company of the Asset Matter	Pittind Super Thermal Pow	W. Hallon Blay						
Br. No	Hains of Sin Party	Name of the work	Year of prestor of bookly replialsed to Green Risck	latelity is solutional topitalsation for 2021 22 as per anneuse 8-column 8	Egranation ERW spherion	Statium daving	Discharge dump for year 2021-22	Discharge during the year 3021-22	
1%	GI.	- 0.	- III			dy payment.	dy Homse	766	
60	PCTRON ENGINEERING C	Dectilion	2816.17						
65 82	MATICAS, BUILDINGS C	Thright plant carefulness	7515-17 2015-17			1,79,40,011,81		1,79,40,911.00	5.13,396,3
60	RAM BICHARI	ANOMENTATION OF ASH SRICK SHED 2 & 4 AND ITS	3010-17					- 1	1,40,356.0
54	Athey Enterprises	Shingstanding of MOH room from refuge Smoot to Garryan	3019-17					1 1	1.29.77.667.0
at	MUNY CONSTRUCTION	CAN, RIDAKS FOR SENMATION OF DISAMS FOR 2590 DISCHARGE AT	2016-17						3,64,087.8
æ	WAY CONSTRUCTION	CATREMOTHED AND OF LINE HOAD FROM ILLIAND BATE TO MOR PATROLLING	2016-07					9	
67	COPL COMPUTERS PVT	Propywhere of Multimedia	3010-17						190.000
80	AKVERNA	COMETRUCTION OF ITS							1,79,394,94
50	A K VEPMA	EULONG AT RHAND CONSTRUCTION OF NON RENDESTIAL BUILDINGS	3016-17			-		- 0	12,8706
п	100000000	CONSTRUCTION OF NON	-101000	-	-	_	-		30,91,991.90
"	A.R. YERMA	PACHAGE I DROUTING OF ANCHOR	3018-07					:=:	22,68,516.00
jt:	CHAUMANSPOTHERS CONSTRUCTION	BOLTS FOR INSTALLATION OF RED PLATES IN PASTICATION SHOP 1 & 2 HEAVY MACHINE SHOP PLICOR IN PLANT AREA	2019-17					9	
72	ROAD ELECTRICALS	Lityling of 110KV eattle for IST-	2016:17					- 4	12/61/211.00
72	D E SINOH	CONSTRUCTION OF PROBRITALIS POR LAYING	2016-17					-	TRANSPORT OF
ti.	NAMES OF STRUCTION	OF AMPS STUMPING LINE Core, Shodox & Type & Rese	2016-07					_	
74	HITSCHAUDIO SYSTEMS PVY	PA CONFERENCE SYSTEM			-		-		
74	LTO JANUAR HEALTH CAME PUT LTD	LABOUR TABLE BRITISH	2016-17		_			- 1	-
n	RITESCITO	BED. FEE FOR RAIL HAY BETWEN AND SET BYSTEM AND SET BYSTEM AND SET BYSTEM AND ASSOCIATED ELECTRICAL BYSTEM PACHOVER FOR BYSTEM BYSTE	3016-17			7.44,648.03	8, FEE 2002 DO	1537,308.00	84,08,129,18
74	MOSIL TO	RALLWAY SCHOOL AND SET SYSTEM AUGMENTATION AND ASSOCIATED ELECTRICAL SYSTEM PACHAGE FOR REMAYD STAY, STAGE (1) 2 x 508 MW)	2016.17					+	450,72,894.44
	WITER LTD	RALWAY SIDNG AND SKY SYSTEM AUGMENTATION AND ASSOCIATED SLECTROAL SYSTEM MODAGE FOR THINAD STOP, STAGE-IS (26 900 MAY)	2016-17						63452150
60	THE THROTOWNER INTO THE	FAN CBLING, 1208MM	2010.17						0.00
11	STEWN, HE INDUSTRICS LTD	H25MT7HUMDRALLIC	2915-17			_		-	1000
	DEWLASSICATES	Constn of Storage shado in	2016-IT		_		_		
-	DEAL ASSOCIATES	Central Stone Const. work for RCC water	SCHOOL ST	-	-		-		Z48.504.00
-	DBAL ASSOCIATES	SWADING Cwekurton wasts of		-	-		-	- +	2,04,926.60
	WHAT HOUSTRING	Procurement of Multiplay	2016-17		-			17.4	9728971
-	CORPORATION LITE	Supply, Installation 8.	3018-33		_			- 1	-
	MIGUE REUSTRALHA	Commission of 601 Dames 18 No CRF SAS SOFTWARE SPOLE	2616-17						4,49,458.00
	ADDRES COMMUNICATION AND WASHING STATEMENT OF THE PROPERTY OF	SERVER LICENSE DERNAMER & RCC Road	3016-17 3016-17		_	1,21,000 as		1,29,000,00	
	NAMES OF THE PERSON NAMES	CONSTRUCTION OF WEN- MILES SERVE MARKETS AND EASTWATE SERVE MARKETS EASTWATE SERVE EASTWATE br>EASTWATE SERVE EASTWATE SERVE EASTWATE SERVE EASTWATE SERVE EAST	XVII.17			79,808,04	0.795.374.06	7,173410s	
	WINNE CHICARISES	DONNTHUETION OF THALLASTLESS TRACK 6 WISIC CAYS, WIGHINSTM TLASTLASTCA	2010-17			1		-	422,000.00
- 6		DEVSER DETE	2015-17					- +	
187	DASUAGES	Placific Divid 18	2016-17				7,608.00	7,500.00	-
		400Y30VV Shikutyavs	mar in			54(21)(00)		22.22.22	
- 10	hard Heiny Electri	Riddenson Factory for Ridden STOD Stroots	2016-17			2001000		84,219.08	2.09.29.394.00
	FAR LINE COMMERCENTION VT LTD	Pitters STYD Grapest  O COVETRIC MC PROJES  PENNI ACCESS SYSTEM  Nig and success of	2016-0			200			201.24.3400

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (प्रनीमिटियक) Addl General Manager (Commiscial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

#### Hatemore, et Link the Close

-	f the Company : If the Power Station :	Riturd Super Treemal Provi	1							Anost in
Sr. No	Name of the Party	Harve of the work	Year of medical of bability contralled in Gross Buck	Underhaged liabilities visiting to GB 04.04.2622 St	Tublity in additional capitalisation for 2022 29 at per america 95-return 0	Conteston ERv updates	Discharge during the year 2012-23 to	3030-53	the bies toyon 52	Undertwije
170	- 81	- (8	18	(0)-(0-0-66-0)			50 payment	- Top termental	Total	
SE MAN	PETRONI ENGINE ERROR E	RetRig	2008/17	8,10,106.00			6.15.596.00		1.4500.00	
62	NATIONAL BUILDINGS C	Manual statistics	20/8-17 20/8-17	14.75,004.00					1	1178.000.0
en.	EAN GO AR	AUGMENTATION OF AGH SPICE SHED I & 4 AND ITS SURROUNDING AREA	2016-77	1.40,358.93			1,40385 (3		1,49,355.03	14.75.090.0
64	Achey Esterprises	Strengfrening of MOR road from vollage Sinsid to Garquel	2010-17	1,23,77,867.00					+	1,23,77,967.0
ø.	WAY CONSTRUCTION	CHL WORKSFOR SCHAMICH OF DRIVING FOR DISCHARGE AT NITIC BURNO STRENGTHENING OF LINK	2816-17	1.04.007.00					1	3,54,807,0
65	VUAY CONSTRUCTION	MORP PATROLLING ROAD	2010-17	5.4					- 1	
et .	CEPL COMPLITERS PVT	Procurement of Multimedia	2010-17	3,76,965,94						(76)943
41	The state of the s	Projector CONSTRUCTION OF ITE						_		
-	S.K.VERBILL	CONSTRUCTION OF NON	3016-17	12,957.90						12367.0
er.	A K VERMA	PRODUCTION OF NON	2010-17	22,91,681 III	- 1				-	52,91,881 (0
76	A K YERMA	PROSMOE!	30%-17	20,200,018.00					- 6	22.00(5140.00
n	CHALHAM BROTHERS CONSTRUCTION	GROUTING OF ANEHOR BOLTE FOR INSTALLATION OF BED PLATES IN FARRICATION IN-OR 1 8.2. HISNOY IRACHINE SHOP FLOOR IN PLANT AREA	2016-17	買						02
n.	RB & RC SUSCINCALS	Laying of 132KV cable for ET	2916-17	12/01/21/100						12,61,211.00
74	CH BROH	DOMETRUCTION OF PEDESTALS FOR LAYING	2016-07	5(+)					100	= 4
74	PANANCONSTRUCTION	Dona Shades 8 Face 5 Moss	3015-17				_			
72	HTCCH-AUDIO SYSTEMS PVT	Del								
-	LTD	LABOUR TABLE/ BRITHING	2016-17						1.0	
70	JANAK HEALTH SARE PUT LTO	MD.	3039.11							-
π	RITES LTD	PSC FOR RAL WAY SERVE ALL SIGHT SYSTEM ALL SIGHEATATION (AUD ASSOCIATED ELECTRICAL SYSTEM PACKAGE FOR REMAID STEP, OHR	3076-TT	B1.28,126 16			2,60,349.80		266.249.00	01.47.080 10
TA	entes um	PAULANY SCHOLAND SAT SYSTEM ALGMENTATION AND ASSOCIATED ELECTRICAL SYSTEM PACHABLE FOR RHAND STIPL STAGE-HI (2×508, bits.)	2016-17	4.55.70,004.44				V - 1		4.91.79.89448
79	Arrestro	RAE MAY RESIDENTIATION (AND RAT SYSTEM AUGMENTATION (AND ASSECTATION PLUSTRESS FOR REHARD STEP, ETAILS, ET.) 2 x 500 (MW).	2895-17	6.34,572.50					a	634,57250
80.	LINA INTERNATIONAL LTD	MAN CELLING, 1200ANI SWEEP	2016-17	0.00			50		-	àise
11	STEAMURE INDUSTRIES LTD	1129MTPH HYDRALLIC	2016-17	102						
ti	ESEAL ABBOCIATES	Construer Storage phedicis	2016-17	2.46594.00			Contract of			
-		Cental State Cental work for RCC region	-			-	2.48,584.10		2.96,804.08	-
85	CICAL ASSOCIATES	can's hill too Construction works of	30ne-11	3.06 104.00						2,06,594.50
18	ERAL ASSOCIATES AN HANT NOVETBAL	Annexate of Malighey	2016-1T 2016-TT	972,814.71				-	-	9,72,814.71
×	CORPORATION LTD LANGUE RIQUISTRIAL, HA.	Supply Installation & Commissioning of EDT Criminal	2016-11	4.49.430.00						8,49,419(08)
67	ON HOUSE COMMUNICATION AND	SSS SOFTWARE SPUILE	2016-07						_	weet of 150
86	PARAMETERS SES	Commoden of RCC Pass	2016-07	- 2						
	PARIMA SUTSAPA ISS	CONSCINUON OF INSMI INCAD NEAR HARAUTH, SAMMANT TURNAH HANDS AND DEGRAS VILLADE TO COMMENT LIMATERS AND LIFAGE, CROSSING WITH AUTHORISED LEVEL	218-17	88						-
44		DRORBUS								2002000
	PARMAR EXTERNIS SCS	CONSTRUCTION OF SALLASTLESS TRACE & MISC CHIL WORKS IN	2015-17	4,22,869 80						4.22,869.80
90	RESTOP EMPLOYEES	CONSTRUCTION OF SHALLAST LINES TRACE & MISC CIVIL WORKS IN PLANT AREA		4,22,869.00						
90	RESTRA EMPLOYEES COMMANDES BROTH EMPLOYEES	CONSTRUCTION OF SALLASTICION TRACE E MISC CINE, WORKS IN PLANT APPA GOYEER SYLTR	3016-17						97	4,22,089,80
90 81 82	RESTOP EMPLOYEES	CONSTRUCTION OF BALLASTLAND TRACES IN MISC CITIE, WOORS IN PLANT AREA CONSTRUCTION OF THE MISC CONSTRUCTION OF MISC CONSTRUCTION OF MISC CONSTRUCTION OF THE CONSTRUCT					40 KD 602 DB		92	-
00 81 82 83	RESTREEMS, DYCES DOWN, AND RESTREEMS, DYCES CORPORATED CORPORATED	CONSTRUCTION OF SALLASTHAND TAXON IS MISC CONC. WCRMS IN PLANT ASSA. GEVERN 25LTR INNE CON 275 GESTARDOV SHARINGAN	2016-17 2016-17	-			60,613,612.0B			



परिमल पीयुष/PARIMAL PIYUS# अपर महाप्रबन्धक (वाणिजियक) Addl. Ganeral Manager (Commercial) एन ही भी ती लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301

## Statement of Liability flow

Name	e of the Company e of the Peyer Station	Pleast Super The	THE FIRE	ew Station Ric	_	-6						
ac n	Nome of the Par			Pear of Orientee of Indillay Capitalous is	United supple	to Proposition 1	W 2025	Continuing (S)	Children to	Opcharg Surfragray	p. Derhay	Air
		*		Orms Black		miama	9	- Carrier	specials tent	2005-31		SE23-24 THORSE TO GREEN
for an	1500s, attentate for prevent that	(D)		00	192-19-19-2				-by promor	- Sprinners	of the	-
- 63	SMILE CHARTE	Ser Su		2016-17	-				6.81.25725	H	-	-
- 52,	DANTIONAL BUILDINGS C	Gesting towar	N	2816.17 2716.17	1790							
53	RAMIBICHAR	ALIGNENTATION OF BRICK INFO 2 & 4 /	Abr	- 2007	14,75,08H D	4					+	14.5
	200-100-00-0	(BURSOUNCHSLAN)	A.	3016-17			- 1					
80	Altho Orderprises	Strengthening of hiss from offices blood to	read Outywi	2010-17	1,20,17,987.0	0		7		-	-	
**	WARF CONSTRUCTION	CIVE, HORRESHOW SEPARATION OF DR FOR 2500 DISCHAR SUPERINAND STRONGSHAMO D	25 A.T.	2815-07	104,007.00		7		366,607.0		3,64,6	C20,77
100	WAY CONSTRUCTION	TO MOR PATROL DI	ctore !	2015-17	-		1		1	-	1,000	W.48
8.5	DSPL COMPUTERS PVT	Programme of Markin	eds.									
da .	A IN VERMA	CONSTRUCTION OF		2016-17	17939434		1					
. 6	Contract Contract	COMMUNICATION OF		2016-01	12,897.00						-	- 176
89	A KYERMA	PRESIDENTIAL BUILDING	MON.	3016-17	3231.001.00	H	-	-	_		-	+ 12
70	and the second	CONSTRUCTION OF S	0.155	20000	32,91,681,00							- 32,91,0
77	A 6 YERMA	PACKAGE I	iGis .	2916-17	23,09,516 pp							
79	CHAUSAN MOTHERS COMMITTUETION	OROUTING OF ANCHOR SOLTS FOR INSTALLA OF 800 PLATES IN PARRICATION SHOP: HEAVY MICHAEL SHOP PLOOR IN LANT AND PLOOR IN LANT AND	Tigy A.2.	2016.77	-						i y	22,863
12	REA PERSONNELS	During of 1 body same for										
11	PERMINEN	CONSTRUCTION OF PROPERTY S CORE AND		3016.17	12,60,211.00		-					12,61,21
10 10	WINAY CONSTRUCTION	GOTE Strain 5 Type &	bys.	ZING IT								
- P	TECH ALSO SVOTEMEN	Can.	Vens	2918-17			-	-		-	- 1	0
-	ID.	SACTOMAGNETICE BARD		2010-17	-		-	_	-			-
1	MAK HEALTH CAME MYT C	TO MARCHITANIE WITH	NO.	2019-12			+				- 0	+ 1
, ,	maa ump	TES FOR MALINAY SIGN AND GET STORMS AUGMENTATION AND ARROGATED BE RETAIN BY STEM PACKAGE FOR SHAND STEP SEAL		2016-17	61,47 MIO 10		1				- 9 - 7 - 7 9	81,47,04
-	TESS LTD	ARLMAY SORG AND S SYSTEM ADDMINITATIO AND ADDRESSAND EXECUTED AVERSE AND ADDRESSAND STP. STAGE-11 (2 × 10) WW)		One-tr	E 87.73,854.44			1				400,73,662
	terro	ANUMAY BONG AND SE BYSTEM AUGMENTATION AND ASSOCIATED ELECTRICAL SHETTIM PROCAGE FOR WHALD STPP, STATELIS (2 closs site)	8	196-17	834572.60							634,513
1,00	WINDSHATIONAL LITE	FAY DELIKE COMM	30	15-17	100			-				
870	AMLINE INDUSTRIES LTD	PROTOR PROTOR DESCRIPTION	7770	8.07			_					0.0
thy	R. ASSOCIATES	Constn of Storage-Sheris In:	-	96-17	-					- 1		
1002	LARRODATES	Const. was to FCC note:	-	2012							14	-
tes	L ASSOCIATES	Committee and a series of	1 504	6-17	280 804 CB	1				7		-
	ANT INCLUSIVES.	phenium.	201	6.11	8.72.614.31	- 1						2963040
1009	SCRATION LTD	Procurement of Wallantee Electronist	20%	5-17	-				-		-	372514.7
UNIT	LIE HOUSTHIACHA	Supply, Instantion & Commission of SOT Chines	201			_	_	-	_			-
woo	OE DOMNEHICATION AND			75%	4.459.00						- 1	4.48,439.00
	ANG SERVICE STATE OF A SERVICE STATE OF	SERVIN LICENSE	3016						-		-	
1		COMMUNICATION OF WARM	2016	10	4		_				-	-
ENRY	MAI DITERRISES	RIAD MEAR XABAUTI RASAN TURNO-INCU AND ICOCHA WULAGE TO ICOMMECT LINAUTHOR ZED LISVEL CROSSING WITM AUTHORIZED LEVEL CROSSING	2016	d								
	ARENTOWNS SEA	CONSTRUCTION OF BALLASTLESS TRACK & MISC CHIE WORKS IN BANT AVEA	30 %	er e	22,000 sp						+	
CONTR	P RMPLOYEES PNERS	GEYMPH 25LTR	2016.1	9	-						- 33	4,22,869-00
WHETEN VOLUME	P DISPLOYEES	Per Dax Cone 2 TD	-		-						- 4	
	W2225	MOHSEW Switzhaled	30:16-1		-					-		
	seast mean	Extension Psychologic fail	2018.7	109	45,462.00			100	200		- 1	-
	AN COMMUNICATION	BEART STOR Stage III	-					3.40	Strike	0.4	40,191(0)	1,60,00,011.00
TARL			初期生	- 1						-		The second second second
27.11	de Francis	POSITACKED SYSTEM  IND and recols of  EXPERIMENT Magnine  UNITS STREET STAGE IN	2016:0	-	1							



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिज्यक) Addi. General Manager (Commerce) एन टी भी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

SER. P	the Company   the Power Station	NTPC United Washed Super Thornal Power	Blidden Stage	H						Amount is the
	THE PERSON ACCOUNT.								-	- COLUMN TO A STATE OF THE PARTY OF THE PART
190	Name of the Park	Name of the work	Year of medical of statility copitatives in Group Block	Lindacharged labelities relating to GB 31 03 3019	legality in additional suppliarisation for 2019- 201 on per american 69-concern 9	Contrames IRV updater	Discharge-during the year 2018-20	Donhage laing the year 3010-30	Casatarga de/mp; Pre sea: 2016-30	Understanged nazarises roseing in care on one access
		-	-	81	- 60	1984	-by payment	-ty meeted 80	Tetal (St-(7-5)	(10×5+6+6+8
CANA	es, estaplica Nocaccinent RoE/Ai	- GI	50	60-900	-		58,109,06	-	65,000.00	
60	WANTE AREA TABLES	DWI WORKS FOR DRF	3810-17	1,19,64,294	-	T +	100	.+	200	1,10,44,204,9
.00		OPS System for Exching					14.000		2.42.080.00	
105	MICRACES	Lacomotives(25 Der + 3eR)	2018.17	2.45.100			1.40,500,00	9,380	1.90,188.00	-
100	CONTRACTOR OF THE STATE OF THE	L N I ACM BUILDING MERCATEVA WATER	2018-07	1,50,188			7:30:125:0E	-	7.39,125.00	
131	BALA CONSTRUCTIONS	LEAKAGE PROMI CONVEYOR 21ATS CONVEYOR OF OF	Stero	10.0-10%			-	-		74,00,001.0
102	MEACON ENGINEERS INC	TYPE QUARTERS AT NTTO- REMAID	3016-17	74.82.060	-		-			04.00000
103	REACON ENGINEERS INC.	CONSTRUCTION OF GLC. BLAND A-TYPE QUARTERS AT MITPO-RHAPPED	22/0-17	1,12,36,168	8		- 4	-		1,12,36,180.4
104	S V DATERPRISER	Current of InTerves Park Gurnal SS Postin, TSI	3019-17	75,083		-	-308.00	-	-309.00	75,402.0
	SV6 TECHNOLOGY SGRVICES	Programmed of F-DSLAM	2010-17	61,296	9		0.4		-	81,396.0
109	PVT LTD	pastien sed ADSL Mederik DSC/TAL SOLIAN WYNTEM						-		231,000.0
108	A 1 S NOLL ELECTRONICS PAT	PROCESSOR SERVER - INTEL	2819-17	2,31,860						41,300.0
107	CURC CURC CURC CURC CURC CURC CURC CURC	RECKLISHER CPU/WITH DB	2018-17	41,300			-			4 90 754 1
100	SIDDHE WINKVAK	Commission of Sheets for Goots Phant	3018-17	5,00,746	- 32	-	- 1	1.5	+	8.00,704.9
100	CONSTRUCTION COMPROY SHOW GARRISH ELECTRICALS & TOOLS	Tools & Equipments for ITI.  Filter Trade  Concerns or trace on soles	2016-17	96,639	-		M(126.00		86,629.00	
110	DURGA CONSTRUCTION	SONSTRUCTION OF NON RESIDENTIAL BUILDINGS	2016:1T	1,60,81,969		4	1	- 1		1,62,67,990
HI.	GMICHARIANI PYTUTE	BROD STEER LOADER	2016-11	2,29,006	-		1,40,000 00	1	2.79.808.08 p.45.808.08	
112	VOLKS ENGROSS PVT LTD	ATT CONDITIONS PRINTS TON SPLIT TYPE (ILLOYD) Proces ensent of Turbre 1994.	3018:17	6,45,000	- 3		1,297.50		1,367.50	18,000
113	Sengeli (Britis)	Druis valve for fillhand Syage- si	2016.17	18.283	-	-	(38.20			00.00.200.0
114	SHEL NEW COLUM	SS section	2017-18	55 (0.70) F 36 (0.70)		-	- :			97.98.980 4.96.765
118	LUCYO HISULATIONS IS	To Parahasis Fire delector	2017/1	4,98,785		_	-	-	1	019
117	OSPL COMPLITERS PVY	Propulation of Highwards Proposition	2017-18	- 61		-	,	-	-	12.46.800
118	SMPCECHMARTELICIA	CONSTRUCTION OF NON- PRESIDENTIAL BUILDINGS	2017-18	12.00.001	0.0			. 8	-	12,86,862
1,000	A. S. SOLISMA	CONSTRUCTION OF NOW	- 77	- 000	1					0.35,360
(20)	A.E. VERMA	RESIDENTAL GLELDSYCS GACKAGE   BUGNESS ATTOMOF ASH	2013/96	1.35.304	-					2,69,123
121	RAMBOUR	BREIK SHED 3 & A AND ITS SURFIGURDING AREA. 40013293 Swinnywill	2017-18	2.69,03		-		-	-	
102	Chaigt Hopey Decel	Everwien Package for	2017-18	8,02,460	-	14			-	8,10,482
Tán.	PCTNON DISCRETERING C	Shand 57th State 9 Ded Ego	2017-01	3.29,480		-			to a real but	9.08.885
129	Gradinovate & Ce 184	Mfg and supply of SCIERVE BM1 Maggins	2917-11	0.00,510	+		25,000.80		25,830,86	-
125	LANCO HERATECHLIS	CAL WORKS FOR CRF.	2017/18	88,87,617	4	- 1	+		-	18,67,617
126	SOOM WINDAW	Construction of Sheds for	2017-16	11410	1		+	1 +	-	1,65,634
121	CONSTRUCTION COMPANY WEB-MA ENGINEER NO WORKS	Physing Solling/Resting of Index in Southus Members	2017-06	75.93	1		44.03.0	1	44,175.00	20,760
	ESCENT SLECTRO-MICO-PYT	of Treedigs and TP's Supply & Dreedigs of Tauxus	2017-16	48.70/03			120,975.0	1	7,25,975.00	11,44,158
128	ELLS STAR LTD	Take Accessories for GT-3 Tringed Discord E Air ventilation.	EN-10	33543					-	3,39,494
130	200-200-200-200-200-200-200-200-200-200	PRE FOR RALLWAY SERVE AND DAT SYSTEM ALBERTANION AND ASSOCIATED BLACTRICAL SYSTEM PACKAGE FOR REMAYD SPRE, STAGE 611 & 500 WY	2015-19	6,00,000		3			-	5.00.00.000
tan	ents LTD	FEE FOR HAP, NOV SECRET AND SAT SYSTEM AUGMENTATION AND AUGMENTATION AND SYSTEM PAID AND FOR REPAID STEP, STADBARC 9 BOTHER 1	2018-18	2,00,00,00	=					2 00 80 808
132	CEAL 45500W/88	Court after works of semicials	2016-10	2,62.90	2			- 3		9.82.067
133		SESCENTAL BALTINGS	3016-19	16,16,62	1		14.44.95.1	4	18.14.981.7	
104	PETRON ENGINEERING C	PROPERTY.	30-8-19	60.01	6			1	1	85,616
316		Progging Determy Timeters of traces in Structural Members of Species and TEs.	2010-19	90.54				1		98,962
110	PROTECTION GLECTION WEST PVT	Cable Accessores for (BF-3)	2010-15	0.00,00	ti .	- 59				0.00,000
	Liu	Minard State III. Mily and supply of	2019-19	19,79,47	7			-		18.76.471
132	YOUR CANDESTTREETS	programme of Submersible	2018-18	10.70,00	-	_	17,616.0	00	17,800.0	0
136	CONSTRUCTION	part of 50°	-							
+30	EVALED CARE EVERYWHERE'S A SCALIFICAS	Subscie use Servigo	2015-70	1,42.30	u.		1,42,000 (	00	1,32,300.0	0
	HYDROTECH PARYAMARAN	Construction of Source	- Service	1000174	6		43.23,990.5	51	-49,29,985.9	80,71,642
140	IMPALENT LTD	Concretes Plant at Niveral	2016-10	1000000			-	11400	Tara / PAI	RIMAL



परिमल पीयूष/PARIMAL PTYUSH
अपर महाप्रवन्धक (trife[किराक)
Addi. General Manager (Commercial)
एन टी पी सी लिमिटेड/NTPC LIMITED
EOC. A-BA. Seotor-24, Noida-204501 (U.P.)

			-							
54,3	Name of the Party	Married the work	Year of investion of labelity septiatives in Occas Blook	rebrity in additional copyrishation her 2000 21 et per semanure 60-catures 9	Contraction 677/updation	Checklarge during the year 2009-21	Checharge dusing the year 200002	Dechargo dura the year 2000.2	Underdarged Indicates sealing to 08 21.00 2021	United the page 108 71 (3.20
for a	essets obselve for newself float in	170	18			N parent	Ot Inverse	Yotet		
-80	WORNE WASHINGTON	OWL WORKS FOR CRE	286.0							Interests:
99	Posterior and Property City	BUTTLE REMAND	2896-17			21.39,171.60		21.33/171.00	06,11,083.04	NT 14 NO
30	ASATECH AND DISSIBLE TO REPLYCES	93 GPS System for tracking security engls Day + 8ot	2018.TF			1		750000000000000000000000000000000000000	10,1000004	95.11,00
130	OMESA SLEVATURE	LAT IN HOW SAVING	2016-0						1	
101	GALA COMETITUETIONS	LSAGGE FROM	2016-17					-	-	_
100	REACON ENGINEERS IND	COASTRUCTION OF SY TYPE CLARTISHS AT NO BHAND							4000000	Core
100	MOACON ENSUREMS INCOME.	CONSTRUCTION OF DIZ. 29 AND A TYPE QUARTER AT NITIC REVIEW.	S 2910-11						74,02,301,61	74,02.38
100	EVENTERPRISES.	Coreto of Inthese, Fig.	to to	_					1.12.36,100.44	1.00 (0)
-	EVE TECHNOLOGY SHEWICE	S Processes of P-DSLAM	2016-17						76.402.80	79,402
106	Jevi Lito	Wystern and ACGL Mediern	3216-17					7.2	93.200.0s	*****
105	M S S HOLA GLECTHOMOST	W DIGITAL SOUND SYSTEM PROCESSOR	2016-17					-	70,000	10,298
197	HITACHI SYSTEMS MICRO	SERVICE - INVINC	- Nin a					-	231,000.00	101,000
	SOOH WIRNES	RECOLDUAL CPULWITH OIL	2016-07					7.4	41,006.00	61,500
108	SHY SANDAR STREAM	Construction of Shock for Block Plant Traffic & Equipments for (1)	2016-17			-			8,09,754.08	111000
109	100.8	Fritier Totale	3016-07					-	47/97/94/98	#39,764
110	DURISA CONSTRUCTION	TES DENTIFICAÇÃO, DINOS	2019-07			24.00.011.66		24.50.5+3 W		
112	VOLKS INVENDE BYT LTD	AR COVOTO DESS 1.5	2018-17			200,200,00	-	24.50(2F2 W	1,17,96,645.06	1.87,96,646
-	Stephen Comment	Procurement of Yursen Will.	3076-17					-	-	
112	Settler Groot	Date value by Brand Spage	2016-17						52000	15818.0
114	SHIRL NEW DELIK	55 расякоря	2017.16		-	-	_	- "	19,606.73	18,0857
118	LLOYD RIGHTATIONS W	TIG Passanage Flat stringlist	2017-11			100 100 100		-	95.00 189.00 57.30 189.00	90 M NO.
117	CRFL COMPUTERS PVT	Properties of Multimedia Projector	30(7-6)		-	487816		4.96.766.00		
118	EMPLEX REPRESENCES	Main other deliberation of HOA	2017-10					-	52.48.890.00	918.0
110	A K VERMA	PROSIDENTIAL PLA DESCRI	307.19					- 21	12,59,080.69	12.48.990.0
01	A K VERIOU	PACKAGE II COMBTRUCTION OF MON PESCENTIM, BUILDINGS	make a		-		_	-	12,54,080,03	12.69,006-5
21	70W alcheir	PROCESSES & 4 AND ITS	2017-16				-	+	9.35.356:00	N/95/290/20
12		ASPORANCE AND A STATE OF THE ASPORANCE AND A			_			-	2,692,120,04	2,89,123,64
	Dhatat Heery Electri	Extension Package for Ritand STRP, Stoce-11	2217-19					- 1	8.82.462.00	A rest litera ex-
	PETRON DESIGNATION C	Model State Model display of	2017-96					_	4.25430.00	E \$1,462.00
-	LANCO INFRATECH LTD	CYCL WOMOS FOR CHIP	2817-16					-	6.06.085.00	0.86.690.00
ion I	SECON VIEWAR	MTPC Rewalls Centraction of Stack for	2017/18					- 1	88,87,817,33	86.67.617.00
-	CONTRUCTION COMPANY	ENACTING	20:0-18						2,89,824.00	3.03.624.00
2	KRISHIA INGREERING WORK	in previous or sociational Managery .	2017-18			THE SHARES				438,004.00
9 1	RECEIVE MECHANISM PVT	of Trisiles and TFe Shopts & Exclan of 122/07 Cable Accessions for ET-2 Billion Depolit	2017/16		-	25 760 D0	-	29,100.00 11,44,190.00		- 8
2	SUESTARLIE	School star	89.9			235000			-	
	erestro	PEE FOR RISLAWY SDING. AND SST 57-STEM AUGMENTATION AND AGRICUATED ELECTRICAL SISTEM PACAGE FOR SIMMO STIPP, STAGE-18 (2) × 800 AMV 1	3016-18		3	74.40.600.00		75,04,080,00	\$30,454.78 1,75,00,000.00	1.25-30-300.00
	тевств	PER PORTRALMAY BORKET AND SET SYSTEM ALIMANITATION AND ASSOCIATED ELECTRICAL SYSTEM PACKAGE POR APPAID STEP, STAGE 41/2 > 500 MBI;	20% ts		20	H.70,000.00	20	0.00.080.10		
10	EAL ASSOCIATES	Construction works of promotogal	2010-19			-				
A	K VCRMA	CONSTRUCTION OF NON RESIDENTIAL BULLIANDS	3016-10					-	2,92,007 an	2.62.00T.49
- 100	THOM ENGINEERING C	Florition Control	2018-19						3,471.00	1.471.00
	ESHIP ENDEVERSAG WORKS		2018-19					-	66,819,69	60.00 N TE
-	DEENT ELECTROMECH PVT	G. Steplies and TPs Supply A. Brecher of Salety Clebks Accessories by 1871.5	2018/19	-	-	80.5G/E		96,942.08	-	
+		Shand Blace-11. Mo and received			183	105,000.00		Je6.980.00	- 43	
-	and the second second	BOSTANISMI PROGRAM	2018-18						19.79,477.60	10 TO 477 44
100	A REPORT OF THE PLAN.	Profesion of Submersible Public 61.87F	2010-18						OCANICAL.	19.79.477 da
ENA SOL	WRO CARE ENGINEERING &	Design, Enexteen, Inseptiation & Commissioning of Softwarelitie Sanage	318-18							-
im	PROTECH PARTAWARAN T	Oscared Soviery, Stage-III Onstruction of Sevence								
DOME		Indicat Flort at Rhant	9216H19			46.524.00	-			



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रथन्धक (वाणिज्यक) Addl. General Manager (Commercial) एन टी गी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

## Statement of Linkship Deep

	d the Power Bation :	Ribard Super Trems I Foo	-						Amount in F
21. No.	Slane of the Party	Name of the sons.	Year of creation of habitis capital had in Onces Monk	Refsity in additional capitalisation for 2021. 22 as per admission is 18-calumy if the capitalisation in the capitalisation is the capitalisation in the capitalisation in the capitalisation is the capitalisation in the capitalisation in the capitalisation is the capitalisation in the capitalisation in the capitalisation is capitalisation in the capitalisation in the capitalisation is capitalisation in the capitalis		Discharge during the year 2021-22	Districts Districts	Discharge change the year 2021-22	Underlanged femilies relating to 68 21 83 202
- CI	(7)	(8)	700			By payment	CH INVESTMENT	Total	
Nor and	ets eligible for sormal Red (N) (INMA) VISIONS	GT-USHT	2016-17						
10	LANCO INFRATECHLITO	CIVIL INDEXE FOR CRF	2016-17				_		7777000
	ASYTODI AND ENGINEERING	NTYC KIHAND	0.00						95,11083.0
10	ROMICES .	GPS System for tracking Lecondaryan(25 (ber + forth)	3016-17	1				0.0	
100	DMRGA ELIPARTORS	ERITADMINADAL	2018-17			-	_		
301	GALA COMBTRUCTIONS	LEWAGE FROM CONSTROR STANS	3216-17					- 3	-
tez	MOADON ENGINEERS NO	DOMETRUCTION OF DI THRE QUARTERS AT MIDG RHAND	2016-17						74,02,281,61
122	REACTIVE PROPERTY IND	DONETRUCTION OF D.2, C. B AND A TYPE QUARTERS AT NEPC-REHAND	2016-17			1.11.00.307.00	(0,803.61	1.12.36.160.44	4
104	a vicumoremen	Conta of Witney Pen	2016-17			-			40.000.00
1000	SVS TECHNOLOGY SERVICES	Programmed of IP-DSLAM					_	1.0	75,402.00
13	PVTLTD	System and ACSL Modern.	2815-07		-	63,296.00		65,296.00	
108	R & S DEDA ELECTRONICE PUT		2010-17			200 000 00		1000000	
-	HTACH BESTEMBANCED	PROCEEDOR	421632		-	231,806 CB		251000.00	7
1EF	CHAIG BUSTEMS-MICHED	SERVER - INTEL PEONUGIAL CPULWITHOS	3015-17			41,300,00		41,380,00	
128	SECRE VINAVAR	Ceretivation of Shade for	2000.41						
	BHY GRADA ELECTRICALS &	Tools & Equipment for ITI	2096-17					-	8,09,794.88
100	TOOLS	CONSTRUCTION OF NON	2016-17						-
119	DUMBA CONSTRUCTION	REMOGNITURE, BUILDINGS	2015-17			43459680		4.34.358.00	1,33,42,077.00
311	CAMERIFICATI PYTETO	SEKED STREET LIDAGER	2015-17						
112	VOLKS ENERGE PVT LTD	TON SPLIT TIME (ULDYD) Procument of Fallers MAL	2016-17				-		-
	Sempel Griti-H	Draint valve for Artson dyage- 6.	3019/17						19,503.73
111	BHE, NEW COLH	50 passings	3017-18					-	50,09,290,00
19	LICYD INBUATIONS IN	TG Pacelage Fire detection	2017-18 2017-15				_	-	\$7,88,149.00
117	CSPL COMPLITERS PVT	Procurement of Multimedia Proceder	2017/16			3-33-41			939.54
118.	SMELET SPECIFICATION OF	Man part disjointery CONSTRUCTION OF HIPE	2017-16			12.48.500.30		12.48.990.00	2.4.24
111	AKYEMM	PRESIDENTIAL PLACEMENT	2017-16			2000000		-	12,5% 860,00
130	AKYEMIA	DACKAGE II CORBITRUCTION OF MEN HERICENTIAL BUILDINGS PACKAGE I	2017-11						8,36,350.00
121	NA SICHAR	AUGRENIATION OF 1994 BASIX SHEED 3 & 4 AND ITS SUPPOUNDING AREA	2017-11					3	2,64,123.60
100	Sier of Heavy Clocol	600108Y/ Switchyand Butterson Package for Situng STPP, Strate II	2017-10					+	0,62,462.00
	PSTRONEMOINERMNO C	Sect Sign ordig and supply of	2012.46					1.0	4.20,456.00
24	Bradisson & Colle	OF WORKSTON LIFE	2017/18						6/05/805/06
25	LANCO INFRATECHILID	CTAL WORKS FOR LRF. MTPC REHMAD	2017-18						88,07 p.m. sp
	SIDDH VIVAVAIC	Construction of Shorts the	2017-18				_		100000
	CONSTRUCTION COMPANY	Stock Plant Plagging/Solfting/Rousing of	4417774	_	-		-	-	3,55,654.00
-	PROPERTY OF STREET, WORKS	tolles in Otypes and Stembers of Treefee and TPs. Supply & Gredien of 120kg	2017-18						40
-	RECENT ELECTRO-MECHANO TO ELECTRO-MECHANO ELECTRO-MECHANO	Cide Assessmenter (07-5) Stand State (1 Ar Versions	2017-10					- 1	
	WTESLTO	PRE FOR AN MAY SONG AND SAT SYSTEM AUGMENTATION AND ARROGATED ELECTRICAL SYSTEM PROXAGE FOR	2718.18			529,494.78		138.69476	1.29.00.000 00
n s	utes (,tt)	PRIMED STEP, STAGGIE 12 c SSE MAY!  FEE FOR RALLWAY SERVIS AND SET SYSTEM AUGUSTATION AND ASSOCIATION SETTINGS.			1				
		PRIMAD STAP STAGE IS 1 2 HISTORY)	2818-19					- 84	
32 (0	SALASSOCIATES	Constluction works of servicess.	2018-19						2,90,067.46
	K VERMA	CONSTRUCTION OF NON RESIDENTIAL MAILDINGS PRICEAGE I	3016-19						1,471.00
4 6	CTRON SHOUMERING C	Bleet Sos	2016.19						10,616.50
N 6	TRANS INCREEDING WORKS	Pupping Stating November of Notes in Structure Wombers of Toggles and Tife Supply & Street on of 12000	2015-10						-
	BODIT ELECTRO-MICH PVT	Ciddle Assessment for 895-3 Ribertd Stope-III.	2015-19					19	-
7 0	athwaite & Co Ltd	liffer and marrow of	2019-19						19.79,471.00
0	HARAN BROTHERS	GOS-Parister Wearns related on of Submerphie	2016-10					-	20.00.00
-	contributions.	pump et STP Design, Enection, Installation & Commissioning of	-					- 1	- 3
100	OLUTIONS	Submerable Newige Disposel System, Stage-11.	2014/16					22	
		Diservent Plant at Ribania	2018-16						21/25/018/14



C	the Preer Station	Ribard Saper Thornal Fow	The same of		100					Amount in
to the	Name of the Party	Name of the eyes.	Year of creation of habitity coptoined in Green Book	Underdanged Septides relating to 188-91 64 2022 IB	tability is additional reptatestion to 2022 22 as per amenue (5-column 3	Contractives. CRV updates	Distrings during the pair 200-01	2022-29	A.m.A.m., 52/10-100	-
(D)	Di-	(f)	[4]	JERNETHANN.			-by payment.	- Ny reversal	Total	
\$7	MAT VISCHS	DTLIGHT.	2016-17					_		
M.	LWHOO MAMAGEN (LLD	CAYL WORKS FOR CRF NEPC RHAND	2015-17	85,11,000 OK						96.11.200.0
W	ASMITTACH AND EMISSISSING SCHWICES	CPS System for tracking Lacomolive(20 Day + Soft)	3016-17	*						
332	DMEGA ELEWITORS	S-B13 ADM Billion	206.0	A.		-			-	_
101	GALA CONSTRUCTIONS	APPRISTING SUITER LEAKAGE FROM COMMEYOR SUMB	2016.07	+						1 8
102	PEACON ENGINEERS NO	COMBINATION OF DI TYPE QUARTERS AT HIRC- RHAND	2018-17	74.02.381.51					1.0	T4.00,281.5
138	REACON ENGINEERS IND	CONSTRUCTION OF D.E. C. BAND A TYPE GUARTERS AT KITTE-BRAND	3016-17						-	
104	a valutatimises	Completed WTsever Plant Gurnatiki Parket Tok	2016-17	75,403.00						75.400 (0
101	IVX TECHNOLOGY RESEVEES: PVT LTD	Progresses of IP-DILAW system sent ADSI, Mindana	2016-07							9
106	HAR PERA ELECTRONICS PAT	DIGITAL SOUND SYSTEM PROCESSOR	2018.17			-			-	
107	HETACH SYSTEMS MICHO ELIMIC	REAVER - NITEL REORLOUAL GRUWTH ON	2916-17							
11.	SIEDH YNWM	Ceremotion of Sheds for	2015-17			_		-	_	
100	STANSTRUCTION COMPANY STAN GANGA DLDCTRECKLD &	Book Plant. Tools & Europeans for (1)		4.09,794.60					1 1	809076438
	T066.9	Piter Track CONSTRUCTION OF NON	2016-17	-					+ 1	Section 5
	DURISA CONSTRUCTION	BRIEDWINS, BUILDINGS	2016/17	1,33,62,677.00			34,02,690,00		31,50,689.00	08/69/508/80
	SAMZEN PLAST PVT LTD VOLKS ENERGIS PVT LTD	AT ERRORD/TICKERS 1.6	2018-07	-	-					
	Sempet Creates	TON 89, IT TIME (LUDYO) Procurement of Turbina 694, Drain yalva for Ribback Syage	2019/17	(0.005.73				-		18.08573
194	OFFICE NEW DRIVE.	SC-produce	agran-te	96.66,796.60	_					4.00.000
116	BHS. MEW OBJES ILLOYDINGULAY ONS N	TS Pacation For detector	2017-15 3017-15	9,9,15,6						75 TO TO
	CER, COMPUTERS PVT	Precurement of Wolfsmedia	2017-18	9954					- 1	200.00
198	MALEX REPRESENTATION	Man Aut ontower	2017-10						- 1	918.04
111	A SE HERMA	PACKAGE U	207.16	12,89,960,00					13	12.56.86030
GB /	N. C. VICHIMA	MOSKIDYTIAL BLILDINGS PACKAGEL	2017/01	8.76,260.00					- F	8.58,560.00
(2)	PANDICHAR	ALEMENTATION OF ABH BRICK SHID 3 & 4 AND ITS SURROUNDING AREA 400132KV SWINNING	2017-18	2,090,123,844			268,123,64		2,69,123,60	- 19
	Herst Hoavy Doctor	Extension Peckage for Rithoot SCPA, Stage-III	2017-18	A,90,440.00						63/2/452.00
1200	ETROMENS NEEDERS C	Mig and supply of	2017-15	120,438,08			533,630,7E		4.25.435.00	and the second
-	Fall foreign & Co Lost	GORPHSMI Waspes GWL WORKS FOR ORF	2017-16	6,86,865.06	-		- 1000			8,68,395.00
10	ANCO INFRANSION LTD	NTPC RHAND Construction of Shads for	2007/09	46,87,617.30					13.	68,87,617.33
	CONSTRUCTION COMPANY	Disk Place	2017-16	3.85,620.00					==	3,48,624.00
OF 8	Prijera Endergovensi works	Plugging/bitting/fliveling of troles in Grectural Members of Treaties and The	2217-16							54
1	ESSNIF RUBCING AMECHINAT TD	Supply & Erection of 152507 Catrix Accessories for IET-3 Rithard Stage-I &	2017-18	10						7.0
20	LUE STAPLED	S: William	2015/13	-					-	
		PEE FOR RACHAY BEING AND BET SYSTEM AUGMENTATION AND ACCUPANTATION AND ACCUPANTATION AND ACCUPANTATION AND ACCUPANTATION ACCUPAN	2016-10	12530,000,00					12	1,25,00,000,00
21 10	TEST L'TO	RELECT RALLWAY STORT AND GET SHITCH AND AUGUSTANTICH AND ARROCAVED ELECTRICAL SYSTEM FACULAGE FOR RHANDSTIFF, STARGER ( 2 × 500 MW)	3018-19						8	85
22 10	EALASSOCIATES	CONTRABER scale of 60Y/C000	2018-10	2,62,667.46					54	2,10,067.69
		CONSTRUCTION OF NON RESIDENTIAL BUILDINGS PACKAGE II	2018-10	3,671.08					- 2	3,471.00
	ESKIN SVOIVSERIUS C	Dec Esp.	2818.19	85.516.00			60,818.06		60,646.60	
		Wiley in Structural Intercess of Treation and TAs.	2018-16	-						7
6 6	D	Rihand Rose (1)	2019-19	-						(+)
	Attended Co (Al	Mg and supply of SCEREPSM1 Wasons	done-ne	10:29:417:00			1,21,807.00		1,21,427,00	18,57,650.80
	ATMARITMENT 3	Add to Carbon and To absolute to the	2018-10						-	18,57,000.80
. 0	WHO CAPE BY SHEERING &	Design, Direction, Installation	2018/10						- 9	- 2
		THE RESERVE OF THE PARTY OF THE			1					



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (दाणिजियक) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noids-201301 (U.P.)

#### Statement of Limitary Flow

	The Power Station :	Rhard Saper Thermal Powe	Section Sec	-						Amount in t
St 160	Name of the Parts	Name of the work	Year of steamor of leadily cophalased in Group Black	Uncleatinged Rebiltion relating to GB D1 04-2023	Table to electronal capital earlier and 2023- 20 as par and expendit column. 8		The peor 2020-24	3023-04		Lindadarged Teblities relating to GB 31 80 303
12.	an and an		38	(10)-(5)-(5)-(6A-5)			651,20,608.34	Jay reversal	Telal	
- N	MALE VISIONE	OTLIGHT CALL WORKS FOR OW	2016-17						-72	- 5
146	LAKED REPARTION LTD	WTPC RHAND	3016.17	96,11,000.08					172	99,31,003.5
10	ASHTECH AND ENGINEERING -	GPS System for tracking Lacoerobives[28 Clear + Stotk)	3916-17						1.0	
101	CMGDA ELEVATORIS	CATH ACM Retired	2018.37							_
901	GALA CONSTRUCTIONS	APPESTING WATER LEWINGS FROM	2011-07						12	1.
102	MISAGONE MOMBERS NO	DOMETRUCTION OF DI- TYPE QUARTERS AT NTPO- PENNIO	3010-17	74.00.084.01			74.62(201.21		74.00.081 St	
tea	MINCON ENGINEERS NO	CONSTRUCTION OF D.2 C B AND A TIME GUARTERS AT HTPC-REMAYO	2014-17	188					85	
188	S V ENTERPRISES	Constr. of WiTaves, Flori Gurs shiftly Posts T.S.	2016.17	76,002.00					540	75,402,00
100	SVS TROHADLOGY SERVICES PATLED	Procurement of IP-DSLAM system and 4DSL Ministers	2016-IT						75	
106	R & S INDIA SURCERCONCS PVT	DESITAL ROLLED SYSTEM	3016-11				-		127	-
117	HTACH BYSTEMS HIGHO	RECORDS OF SERVICE AND ADDRESS OF SERVICE AND	30'617							
-	SUMO SUCH IINAYAK	Censtruction of Swids for	- E-17-11-1						- 52	
136	CONSTRUCTION COMPMIX	900 BM	3098-11	A 201,754,58-						8,08,784,95
126	TOOLS	First State	3019-17	-						-
118	OURGA-CONSTRUCTION	CONSTRUCTION OF NON PERCENTIA, BUILDINGS	3016-17	96.693,506.08					3	36,69,508.00
117	YOU'S ENERGE PUT LTD	AR CONCITORNAL LO	3016-17	100			_		- 1	
113	German Great	TON RPLIT TIPE 3, LOYOL Processors of Turbine MAL Crain valve for Riband Syage	2016-07	10,005 73						18,000,70
	10.000	DG paralesses	2017-01	56.66,306.00			_		- 30	N.H.295.00
111	SHILL NOW DELFH SHILL NOW DELFH	(TSLParakage)	2017-09	27.76.169.00					- 35	17.36.368.08
117	CSPL COMPUTERS PVT	Proceeded of Hubbrooks	2017-10	918.02						919.00
	SIMPLEX INFRASTRUCTU	Projector	2010/0						- 4	-
110	A K YEMMA	PACKAGE U	2917-11	12,58,860.00					(#)	12,56,860.00
120	A K VERNAL	DOMETRIZCTION OF MON- RESIDENTIAL BUILDINGS PRCANCE!	2917-11	9,16,160.00					11	S 25, 350.00
121	NASOVA	MUCK SHED 3 & 4 AND ITS SURRICHAEDING AREA	2017/19	100					= =	+
173	Sharel Home Section	Standard Sta	2017/18	8.92.482.80			74,343,08		74,045.80	E18,419.03
	PETHON DISINEERING C	Bred Scar Wig over supply of	201T-18	11111111111				-		14
138	RISITINATE CALLS	SOCREPTION Wagers DIVE BROKKS FOR ORF	2017/18	1)86,685-20				_	1-1	Editaes no
125	LANCO SVINATBOHLTO	MING REMAID Construction of Shade for	3017-16	80.87.637.00						18,67,647.33
T/N	CONSTRUCTION COMPANY	Biss Part	20/01/16	3,85,624,00						3,58,624.80
127	KRIBHNA ENGINEERING MORKS	Pugging/Bolling/Roeting of holes in Secutional Members of Treeties, and THs	2017-95	_ =					=	-
120	REGENT ELECTRO-MOD-FVT	Supply & Seedlor of 13/MV Cable Acomor is for IOT-5 (Scars) Stage (I)	2017-96	- 14					=	- 12
178	MALE STAFFED	Str. Oncode on	2018/20	-						
rie	PICKLID	FEE FOR RAILWAY SCHOOL AND SET SYSTEM ADDMINITATION WICH ASSOCIATED IS SCHOOL SYSTEM PACKAGE FOR REINFLO STRP, STAGE-BITS a 500 MW;	201818	1,26,00,000.00	Y				*	1.29,100,000.09
TAT	MTRKLID	FEE FOR PAIL, INV. SCHOOL AND SET SYSTOM AND SET SYSTOM ADDINATION AND ASSOCIATED BUSCIPPICAL SYSTOM PACKAGE FOR BUSINANS SET, STAGE-IS 12 LSSE MW.	2018.19	(*)					*	
92	IOSAL ASSOCIATES	Caretrotion wasts of teachtook	301919	2,00,061.66					43	2,92,987.48
188	A K VERMA	CONSTRUCTION OF NON RESIDENTIAL BUILDINGS. PACKAGE 6	2018.19	3,471,00					12	3471.00
134	PETRON DISPRESENCE	Backing Reggray Sale-g/Resting of	2010-19						-	
-		tolos in Structural Maintens of Treates and TPs. Supply & firedox of 130Kir	2015-19				- 4			- 7
	REGIONT ELECTRO-MEDIT PVT LTD	Cathi Acomeries for (07-3) Shoot (tage I)	298-19			- 4				+
	Smithwate & Co Ltd	Milg and supply of BORREHEIM! Waspons	3016-19	16.57.851.00						1867,660.00
126	CHALHAN BROTHERS CONSTRUCTION	Installation of Substantials comp at 2019	2018/10	7.						-
	BOLUTIONS	Coolign, Grackon, Installation & Coolignature of Scipmensible Senage Disposed System, Stage-Int	2019-16						136	
tio-	HIPOROTECH PARYAMANA	Communition of Services	2818-18	55,25,616.14					- 1	1025301.04



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (दाणिविधक) Addl. General Manager (Communicial) म्हार्ज टी पी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

Hamo	of the Company of the Power Station	Hilland Super Theoryal Pow	er Station Stag							
			Tiest of							Assatis
n No	Neme of the Party Sp	Name of the work	creation of facility capitalised or Gress Stock	Underlangui Tabilities solating to 189 51 03 304 8	tables a address contribution to 2015- 20 as per anneuro (5-column 8	Companies FPV apoleton	Distringe during the year 3019-30	Disthings during the year 2019-20	Distrings duing the sear 2919-20	Undischarger Habithee retaining cos 31 de 202
111	- ai	196	10	in.	18	(3/6	-by payment	Symman	Total diviZetti	C8095+8+86
	ets elected for normal first, \$40	SECOND CALLED MAKEN, CT								120.00
141	Alatom TBO India 110	10046/HUCTON OF NEW	2018-16	16(936	, £	100	1,61,038,00		1,01,936-20	13
142	VIAY CONSTRUCTION	SS O TE MARKET OWN	3219-19	12,06,809	+	1.0	269,21636	-	2,03,216.98	0.450018
16	W.AV CONSTRUCTION	Cereb edien of Silanimus Read (Out side plant lesses) nell from Walth Toke # 3 to their, yardwall Britis, pand in CCCPs, Ary	3016-19	10.27.208	+	-	6,42,367.75	+-	540,38771	18,96,9120
348	PARMARI ENTERPRISES	CONSTRUCTION OF MISH POOD INCAR HARAUT, SASMINITURNAMENTE, AND DOORS VILLAGE TO CONNECT LINAUTHORIZON LEVIS, CROSSING WITH AUTHORIZON LEVIS, ERICEBARS	2018-18	3,02,000			9.	-		242,983 0
145	BHEL NEW DOLL!	50 Pacatiage	20/8/19 20/8/10	2,580		- 2	-			2,695.5
10	-AWAN CONSTRUCTION	DS Passing CONSTRUCTION OF CHEMON, STORE SHID AND WINCELL MIPOLES		5.25,439			-			5,6,69.0
1150.15	DED INSPERIOUS	ONL WORKS IN PLANT	384-0	1,53,218						1,53,210.0
102	OZ NIZA NIZISTRIA. HYDROTICH PATEKIANAN	S.T. Switchgass Government of Savage	2012	-	30,84,017,08	-	-			10,01007 8
100	ASSISTED NAV selectores	Theodynavic Plant of Robards MV Serbit speed Presidents	2019-20	- 1	11.284.08 11.284.08	1.4		- 1	-	5,11,017.16
160	inverse loate Pet L	ON	2019-28	- 31	20 DIO 68	- 3		-		11/284 St 69/055 St
150	EREDGE & ROOF CONFWH	SERS RHAND STACE IT CONSTRUCTION OF NON	2019-20	+ 1	46,64,640,00	- 1		-	141	45 H H H H H
154	DURBA-CONSTRUCTION	RESIDENTIAL BUILDINGS	2010-20	+	14,40,704,00	- 24	+	111		14,60,704.00
125	BHOL NOW DIGLIN	TO Peculage	3019-30	+	13,30,685.94		1	-	12	13,10,496.04
150	BHS. NEW DELH	SO Pacatage	2819-20	7.1	38,662.00					38,602.00
6	SMPLEX INFRASTRUCTU	Fire detection Many plant prolition ray	211-X 211-X	- 1	98.554 III 21.54.813.34		- 5	- 4-		56,534.19
	PANAH CONSTRUCTION	Men plant profession CONSTRUCTION OF CHARGOL STORE SHETT AND MISCIELLANDOUS CINEL WORKELSH PLANT	2019-28		7681438	=		18	2	21,04,010,34
160	PETRON DISCHEEPING C	AREA Eled Elec	309-20	- 0	48,459.00					do Alia de
181	ADMONN, AUTO SALES	Gotine Home For NTPC Singulati (Rithard oreter MISGA 2018 to 2019	2019-201		8,04,060,76	- 1	-	-	-	84,654.75
162	QUNAME TECHNOLOGICS PVT LTD	Frequences of Branchis Face can finger reader and TV tile CLHS	2019/201		26,080.60	-	-	20	-	(60,000.00
162	MAX SPORTS	Presument of exercise	2013-20		34,999.90	-				24,989.00
104	LABINDIA ANALYTICAL INSTRUMENTS	Propulation of Postage XRF Alloy Analysis:	2019/20	-	17.11,000.00	-		-	-	17,11,000.00
168	KLINAL ENTERPRISES	Slightly, Exection 1(1-5-1) in Commissioning of of Executions: Surface Woorked	2019.20		251.900.00	(*)	18	- 33	+1	251,500.00
	HYDROTECH RATYWARMS SNOW, PVT. LTD	Construction of Sewage Transmissing Discuss Rivered	303021						+ 1	-
167	REPCON ENGINEERS (NO	EDYSTRUCTION OF D.Z. C. 8 AND A TYPE QUARTERS AT ATPC-RHAND.	3020-21		11					
108	SMILES INFRATRICTLY	Mesons possibles	2025-21							
108	Sharal Heavy Electri	Extension Forloge to Grand STPP, State III	3628-21						-	
	ANCOHMUNICHLID:	OTHE WORKS FOR CHE	2000001						17	
172	CHAPTON SPEAKESLTD	Elect Eap Paper, paperformer	2020-21 2020-21						-	
	BLOBUS IMPOCOSE LTD	Procurement of Vision Conferencing Equipments at	2020-21						1	- 0
-	Hartonia Presige Cynelloction Co	NTPC Resent 3rd reserved sected with debalaction ()	2000-21				_			
174	GL POWER BYETENE LTD	Procurement for 225V Softers Sorting for Unit-5	300 pg 1							¥
ris a	MITCHOUGH RIGHA CTD	PROCUREMENT OF LANTORQUE MAKE WALVE GEARSOX AND MOTOR SED ACTUATOR AT	2610.31						-	
	AMOROWENERGY SOLUTIONS NT LTD	Procurement of CT Twicklill for INTPC Hinard	200031							
77 6	Hereford Electronics &	Procurement of Display Minister to Projection System in Various	2009-21							- 6
76.	EXMACO RAIL & ENGREERING TO	System in Various Procusement of STAP House For des Litripation Procusement of Ossistop PCs	2020-21						-	-
79 10	Lia NOIPITLIO	IndexEnter Pleaspherate for EDC	2620-21						- 1	
80 D	ELVEDBOD BALES PATILTO	CORP - CHACLE HIS Promote rend of Nationals Reckette MSPC Research	2000-21							
-	ELVESCO SAUS PYTLTS	Programmy of Network Racks for NETS Street Programmy of Full High	3000-21							- S.+.
47 G	ALTIDO+NEOSOULTIONS RWWNE LTD	DERINTON/HOUSE Plaintin. This PC is made	2020-21						(6)	84



परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रधानशक (वाणिगिर्ध्यक) Addi. General Manager (Commercial) एन टी पी सी लिप्टिंड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

		Ritard State Tracks F							Amount in S	al .
5 M	927013776	Name of the work	True of creation of lateraly reptall section Grond Rhoek	helpity in additional capitalisation by 2005 21 as per american Shaduwn II	Contraction 6977 updation	one have Satisfy Sa	Demarge during the year 2000.31	Distriction from 2000-d	Underharged	Underways Addition reports
Dr 400	eta cilicabie for summer Rolf (A	.00	18.			- SA THERMAN	- Egyptymasi	Total		40.000
145	Aleon 760 Inta (a)	4000/ Coult Breakers, C 4044/A CNT for Switchyee 57-91	299-9							(th-SSA)
142	WAY CONSTRUCTION	RDC ROAD FROM ASH SLO TO SREED SAFE	3016-13						24041610	9,40,000
101	MUAY CONSTRUCTION	Construction of Stammous Road (Our size glast Soundary well) from Weed, Traver # 3 to 8-65, year an SHEL year to GOOM, Ass	2000					7-	13.36.212.00	13.312
364	PROPERTY EXCEPTION NEW	CONSTRUCTION OF WISH ROAD RESPONDED INSENT SHOWN TURNOWNED AND DOCKEN VILLAGE TO COMMENT LIMITHORNEO LEVIS, CROSSING WITH AUTHORNEOUS LEVIS, CROSSING							243985.00	2<000
165	BHEL MEN DEDA	50 Pecaloge 10 Pagetese	2018-10			_				
	100	- JOONSTRUCTOR OF	2818-19						2.68 H	2,686 V
	FRAMI CONSTRUCTION	AND RESCRIÇANCIUS CIVIL WORKS IN PLANS ANDA	2019/19	_				3	1832-640	180280
150	SE NOA HOUSTRAN	Constraint of Soveps	2019-20				-		160401758	
	ONDALPVE LTD ARE LTD RW switchows	Treatment Finet at Robard	2019-00			4,617,017.99		4,51,017.19	60,000.00	90,000,0
	Investor India Pro L	100 Self-term Paratison.	3019-30					4	11,34.70	11.254.0
-	REDUCE & ROOF COMMAN		3019-20					37	19,050.85	54,960.80
154	DURGA CONSTRUCTION	CONSTRUCTION OF NON RESIDENCE, DUE DRIVE	2019-30			(0.64.640.00		45,54,649 (0)	-	-
110 (	PHOS. NOW DRUH	TO Possession	2015-25			-	-	-	14,00,704,00	1000794.0
150 8	HEL NEW COLH	DG Pacakage	- Control Street						13,30,665.04	13,30,855.0
37 1	LOND INSULATIONS IN	fin deater	3019-20 2019-20					+:	38,600,60	18,602.00
100	SWY ET HE BRATHLICTU	Manuser ovilloway construction of	2019-20			80,534.19		31,514.19	No.	
	SANAN CONSTRUCTION	OFEMICAL STORM SHED MID MISCRILLANDOUS O'ML WORKS IN FLANT	2011 ES			78,614.30		Number	21,54,013,34	21,54,010,36
EL P	ETHICH DIGHERRIS C	APCA First Figs	2015-20		_			410000		
01 A	CHANNA ALTO SALES	Stokes Remains on NTPC Simplest officeral center (MISA 2018 to 2019 Philosometal of Scientific	3019-30						40.404/00 849.004/0	48.439.00 9.64,064.76
62 K	LAMAR TECHNOLOGIES PYT TO	TW for CLMX	2019-26						49,08030	85 500 00
-	ax proens	Photorement of exection shelp cycle	2019-211			24,996.00		ACCOUNTS NO.		
	GUATANHUS GUATANHUS	Programment of Processive XXVIII	2019-00				_	24,389.00	-	
	MAL EXTERPRESES	Mile Atlaham Supply, Erredice clyspice Commissioning of of	290-28			17,11,000.00 127,000.00		1,27,900,00		00 mm //
06 HO	DRIFTECH PATYWARANI VDALPYT, LTD	Executionic Surface Minureed Construction of Savage Translant Plant of Binance	2020-21	11,11,396.96					1,34,080 80	1,24,000.00
	SACON ENGINEERS NO	CONSTRUCTION OF 0.2 C. 9 AND A TYPE QUARTERS	2020-21	21,84,80008		_			14,10,300 (9)	14,14,000.00
a Isa	PLEX.INTRIGUEDU	AT NTPO-REMAND.		2001/1990				95	21,64,081.80	21.94,001.00
		Might signt diritionary 400/10293/ Shallshyand	2020-21	60.14.041.02					\$9,14541.02	SEA 14.545.02
	erat House Disco	Where STPP, Stage 61	200.21	A12,586.00				- 1	31234608	3 (3.500.00
	NEO INFRANTON LTD	DEPCRIMEND	2829-21	34.15.818.54				-	38,13,018,84	is turn as
1 (0)	CAPTON DISCASSISTE	Power Constitution	2020-21 2000-22	1,60 303 53 18,51,080,60					189,18255	
	DBUS INFOCOM LTO	Progressed of Vision Conferences Equipments at MIPC Pittand	3020-21	1878,320.80				-	18/76/228 OR	1,86,200,65 96,91,500,08 16,75,190,00
And	Sons Plestyn Coletryckin Co	Drittmaning of credial ears	2020-21	12,77,739			-	-	111111111111111111111111111111111111111	7414.00.00
100	POWER EXSTEMS LTD	Procurement for 200V Barrary Markes for Union	3039-21	25/24/000.00					29,24,800.00	20,77,736,90
CHI	TORQUE NINA LTD	PROGRAMMENT OF LIMITORICE MAKE VALVE DEARMON AND INSTORACED ACTUARDS AT	3036-31	5.083.47					6,8247	3034 80619 5355 47
Ola PAT	CHEN THERE I BOLUTIONS LTD	Programme's of CY Test No. for NYPC religions.	3000-24	188,080 (0				4	1,85,00000	1.05.000 mm
Mar	refere Electorics &	Precoverent of Display Monitors for Properties	300.31	2.15,15a.cu			-		70.1000	75500
TEM.	MACO RAIL & PROMEERING	Provincement of STAP Runnie	2000.21	436.16,218.00		-			2,15,155.00	2.15.198.00
1	a tease Port CTD	Procurement of Depition PCs 4126-07 Peripherals for Epo.	200021	1439.994.00					ON HE STARKS	4,36,16,219,00
CBA	Alderton Ray Property in	Programmes of Salayon							14.86.964.09	14,15,584.00
-	POSCO SALESPAT LTD	Sanity by NTPC Strains Proposement of Assesses	3036.01	62,606.00					#E000.00	92,000.08
1		Racks for STPC Released Procurement of Fall Insight	1939.21	39.290.00				-	36,310 80	25 250 00
1984,7			1020-21	35,380.80						-
PRIM		Positio Tra/PC sinety								



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (शांजितियक) Addi. General Manager (Commissial) एन टी पी सी लिमिटेड/NTPC LIMITED 152 EOC, A-8A, Sector-24, Noida-201301 (U.P.)

#### Statement of Linkship From

Pione o	File Freez Station	WifeC United Altered Super Planting Pow	er Market Blag						Assurtice
B: 144	State of the Pody	Nume of the spots	Veer of evention of Eastiny contrated in Gross Stock	Sability is additional supplisheation for 2001 23 as per anti-care 25-celuren 9		Discharge during tim year 3021-27	2021-20	Discharge duling the year 2021-22	Underhorsel labilities rearing to-08 31 03 20
cn.	- 6	(2)	110			dy payment	-ty-reversel	Total	
for gan	ets et a the for nomed Roll of	4090Y Grout Breatens, CT	100000						-
141	Wetern TAO Inche Ltd:	4(NR-I)- DVT for Businesses 57-8	2016-19						-
142	WAY CONSTRUCTION	CONSTRUCTION OF NOW RCC ROAD PROBLASH SLO TO 08950'T GATE	2019-10			1.15340.00		1,10 ACC 00	620,776.1
140	W.MV CONSTRUCTION	Creshusion of Revenues, Florid (Out side plant besondary wait) from Welson Traver # 3 to SHEL yard and SHEL yard or CCCPL Are	2019-19			5.33.637.60		\$20,000.00	800,476,30
141	PARMAN ENTORYS SOS	CONSTRUCTION OF WAN- MODEL REAR KARALITI, SASANTILISANDAND, AND DEGRA VILLADE TO CONNECT LINAUTHORIZED LEVEL CROSSING WITH AUTHORIZED LEVEL CROSSING	\$218-18			2,42,999.00		242,965.00	
	BHEL MEW DILLHI	3G Panelugo.	2/8-9					10 97	2887
141	PROVINCE OR THUCKS	CONSTRUCTION OF CHEMICAL STORE SHED AND MISCELLANDOUS	2016-19					-	1,00,246.00
		CAVIL MICRIST IN PLANT MISSA							
181	OF FICH PROJETTER.	Construction of Seuage	2019-26						10,34,017 89
151	ANN LTD MV exhibator	Treatment Plant at Pitrant WV Switchgest Pacakage	2919-26						50,000.00
	Energy Inda PVII.	C6	2019-20						11,284,60 89,000,00
	BRIDGE A ROOF COMPAN	AWAS BHAND STAGE H	2019-28						
154	DURSA CONSTRUCTION	CONSTRUCTION OF NON BENDENTIAL BUILDINGS	3019-38					+	14,00,704.08
108	BHEL HEN DELH	TO Pasahage	201025		100			15	13,30,466.04
160	BHEL NEW COLHS	5G Pecahage	3019-30		1			+	36,600.00
187	SAME EX HESSATIONS IN	The detection Main stands systemately	2019-20 2019-20			25511039			-
(89	PHANA CONSTRUCTION	CHEMICAL STORE SHED AND MISCELLANGOUS CIVIL MORRS OF PLANT	2012			CHILL		PI SALERINA.	
100	PETRON ENGINEERING O	AREA Decricus	2019/201					-	48,439.00
191	ASSAULT REPORTER	Godinj Bens For NYPC Singranii Klirjand under INSIOA 2018 to 2018	2019-20			4/0,20331	39,125 24	4,76,556,78	+,87,498,00
112	CUMMA TECHNOLOGIES PUT LTO	Procutement of Bossessin Price ours froger reader and TV for GUMS	2019/28			40,000.00		00.800.00	
	NOUI SPORTS	Phosperant of execute static strate.	301926					T .	
TEN.	LABADIA ANALYTICAL INSTRUMENTS	Procurement of Plantagia ARE ARIG Assistant	3019-28					1	
mid.	NUMBER DESCRIPTIONS	Sapple, Excisor 4/484/4 Commissioning of of Enlocktoric Softwar Mountaid	2019-20			134,000,00		1,34,000 80	
186	HYDROTECH PARYAWARAN	Cerebrotion of Severge	2020-21				-		10.000000
	REACON ENGINEERS IND	Treatment Plant at Rifferd CONSTRUCTION OF D-2-C. R AND A-TYPE QUARTERS	2000-21			18,51,001,60		18.01.001.00	3,43,000.00
	BMPLES NERVATRUCTU	AT INTHG-RIHAND.	20521		_	99.16.041.02		05 14 541 02	24400000
115	Shelit Heavy Electri	Main plant distriction by 480/1097V Switcheard Catanalist Fachage for	2529.21			THE STATE OF		41.54.02	8,12,546.90
170	LANCO REPORTED LTD	OVE, WORKS FOR CRE.	2625-21						34.75.818.54
	PETRON ENGINEERING C	Steel East	2020-21					- 1	1.60,305 53
8811	GLOBUS HIFDOOM LTD	Procurement of Vices Conferencing Courpments at	2020-21			1,67,510,00	17,77,760 pp	19,78,300 83	16,31,000.06
	Solaral Presige Constructor Co.	NTPC Rikerd Setwing of control ask deve based if	3030-21			19,00,002	7.	16,00,000 III	10,78,807.00
94	HEL POWER SYSTEMS LTD	Procurement for 230% Statusy Status for the 6	2020-21			26,24,900.00		20.24,008.00	
175	LIMITORICUS INCIA LTD	PRODUPEMENT OF UNITORIOUS MAKE WALKS SEARBOX AND MOTORRED ACTUATOR AT	3826-21			\$000.47		6,369.47	5
	DREDROM ENEWBY SOLUTIONS PVT LITO	Procurement of CT Tourists for NTPC Rinard	2536-21			1,06,080.60		1,86,000.00	
	Homelonal Electricis S	Photograment of Display Maryters for Projection Systems in Nation	2020-21			2,15,156.III		113,19530	
ITS .	EXMADO RAL E ENDINEERING JO	Princenent of STAP False. for Ash Utilization	2020-21						438.16.216.00
m	KIBS TIGON PYTILTO	Procesument of Danktop PCs 42-8422 Periphents for SDC. CISP 40-8441 HR	2020-21			*4.95.004.09		11,56,561.00	
190 (	SELVEDROD SALES PUT LTD	Proprietari di Nativosi Radio to MPC Rhane	2020-21			87,800,00		62,010.00	- 72
981 (	DELVEIGNOO SALES PVT LTU	Placement of Newson.	2020-01			25,250.00		85,250 m	-
102	MCTECH IMPOSOLUTIONS	Precurement of Fust Histor	7.5.7.1						0.000000
100	RIVATE LTD	PRINTON POLICO PRINTS, TRAPOLICO	2626-24					-	38,580.80



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (दर्गणियान) Addl. General Manager (Commercial) एक की मी ती लिपिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

#### Steinment of Liability Flow

Harri	of the Company of the Power Station	Rither Eggs There as	Year Station Sta	-	•					
8.4		Name of the social	Treat of checking of the control of	Underforged febritise relating to DB 04.04.2522	Rability is swittened capitalisation for 5002 20 as per annex,no 18-column 3	Contractors CRV spitation	Clearlange styling the year 2022-29	Destroye daring the year 2022-23	Dechage during the pow 3022-20	Amount is tindestranged habition rotation to GB 31-03-702
Figs de	usia eligible for assess first to		16	CENTRAL			- ту раугиент	-be-pryequal	Total	
141	A Thursday Control Co.	(400kV Great Stephen, C.						-		_
- 14	Product racy room (18)	40-84 PCVT for Switcher 61-8:	51 007/00/00	5.4					1	
10	M-MY CONSTRUCTION	ACC HOAD FROM ASH SLOTO SESSON DATE	3015-10	0.26278.16			8.486.03		8.000,00	8182071
90	VIAW CONSTRUCTION	Construction of Districtions. Poset (Out side stays) Solentially rept) from Mastel Towns # 3 to 58-bit, yet in 58-bit, yet in	2010-15	807,475 (0						0.01,678.00
144	FRAMM ENTERFRANCE	OCHSINGUCTION OF MEAN MIGHT NEED HARAUT, SHARETURINASION AND DESTINA MULAGE TO DESTINA MULAGE TO DESTINA MULAGE TO LEVEL CHOOSENG WITH AUTHORSEED LIEVES, CHOOSENG		-					-	
128	DHEL NEW COLH	66 Passence	2216.18	2,000,14						
ie	PAWAYCOVETRUCTION	CONSTRUCTION OF CHEMICAL STORE (HIET) AND MIRCRILLANCOUS	2015-10	1,51,215.00					- 1	5 95 859 EX
549	GE INTA NO. 615/AL	CTHE, WORKS IM PLANT OFFICE LT SHISTONIA CONMITTED IN SHIPPING							- 54	1802606
180	HYDROTECH PARYAWANAN	Caratruston of Sovage	2019-20 2019-20	30,64,007.50		-			-	10.54.017.99
	Mild LTD Wil park house	Tradement Plant at Rife and Ab Sent Olymer Pacoke or	2018-20	99,000-90 11,284,06					-	90,000,00
152	Precious india Prot.	CN	2019:20	59,860,68				-		51,784,80
194	DURGA CONSTRUCTION	CONSTRUCTION OF NOR	201925	-			-	-	-	FE.060.50
155	BHB. REWORLH	RESERVING BUILDINGS	2019:30	9.60,704.00						14/90/104/00
1100	- total discount of the same o	TO Prockept	2819-00	18,00,655.04						13.35,666.04
marine and	SHEL NEW DEDIN	8G Perukaya	2019-20	38,602.00						
199	SAPLEX IN RESOURCE	The deadline Manufact dylfonogy	2019-20 2019-20						- 1	38,602.06
ts.	AWWW COASTRUCTION	CHEMICAL STORE SHED AND MISCELLANDOUS CHILL WORKS IN PLANT	2813-20	Tal.						
50.	PERSONAL PROPERTY OF	ENG. Ray	2019-20	48,490.90		-	District of			
	ASARWAL AUTO BALES	State Same For HTFC Shipsul Filtrand under INNEAS 2018 2018 Procument of Gostatio	2019-20	4.67,698.00			48,436 85		41.418.00	4,87,490:00
- 1	DLEWAY TECHNOLOGIES PLT TO MAX SPORTS	Face cure forger sensite and TV for CLARS Procurement of evergase	2019-28	- 4					8.	- 4
	ARRESA MALVITCAL NETRLANDATA	Procurement of Promption (OK)	3019-30 3119-31	-						-
- 1	WHAL EXTERIORS	Microsoftware Supply Electron viriliana Commissioning of of Enlactoric Surface Mounted	2019-28	-				-	-	-
	TERMINECH PARTYAWARAN	Construction of Seasons							D+.	
- 0	NONLPAT LTD	Treatment/Plant of Pileson	3026-21	74.54.306.56					100	14,14,360.00
	SACON DIGAGRAS NO	CONSTRUCTION OF D.C. C. SI MICH. TYPE QUARTERS AT HTPC-REHISO.	200021	RAD,080300						5.42,000.08
200	MB.ALEPINGTILCU	Main plant double may 40010000 Sealinfood	3000-21	- Andrew				_		
-	teral Heavy Clecki	Safetime Package to Privated STEP, States & CVAL WORKS FOR CRE	3629-21	2.12.345.00						312.946.00
_	WCD INFRATECH LTD	NUHC REGRED	3030/ari	54.13,016.Se				_	_	
13	THOM GRADUITARIAS C SIAMPTUM GREAVES L'ED	Rest East Force Landouse	3000-21 3000-21	E,21.608.00			1,60,507.93		1,69,252.53	34.2003.54
31	OBUS INFOCOM (TI)	Conferences Suppresses of INTEC Street	3829-21	-						18,31,500 80
Pie	tional President Committed on Co.	3rd naising of nermal set (60x lisson II	2000-01	15.75,607.00				_		-
HB	L POWER SYSTEMS LTD	Procurement for 2200 Belley Banks, for Emp.5.	2009/21							16.79.807.00
UN	STORGUEINGMUTO	PROCLEGMENT OF UNITORISE BANK BULVE DEAPHOR BYO MOTORISED ACTIMATOR AT	3030-31	-						
OM PV3	CREW MERCY SOLUTIONS	Procuence of C7 Test 69 for ARPC Riberts	2020-21							
irte	Ostorial Electronics &	Precoverent of Display Monitors for Projection System in Venture	2038.21	14						9
130	MACO RAIL & BROTHERRING	SOLARE SERVICE	999-21 4	PL 14.218.00				-		1.10.218.00
-	5 TOOL PVY LTG	Procurement of Departop PCs 40-6-4- Perighestals for EDC (EEE or No.12-198 Procurement of Materials	1080-21							4.21406
+		Sints by NTPC Hound	826-21							
+	VECSOD SALER PAT LTD	Procurement of Netherin	989-21						-	-
THIS	TROH REPUSOLUTIONS	Proceedings of Full HIGH	000-011	16,305 as				-	1.6	



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिक्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED च्या चेटिट, A-8A, Sector-24, Nolde-201301 (U.P.)

#### Statement of Unbillion Tow

	I'm Fower Station:	Whited Super Thornest Power							10	Amount in the
ı. No	Siams of the Party	Place of the work	Treat of creation of bandly captalleed in threat Block	Candidate get Sabihar relating to CB S1 56 2000	isotily in additional capitalisation for 2003- 20, as par annexes to esture 9	Coresecture (SPV applation	Declarge sung the year 2020-24	Destroys during the year 2023-29	Discharge Human the page 2003-24	Lindschauged SubStillion relating to Cit 21 ES 2004
_	-		ta and mark				be payment.	-by reversel.	Total	
00	100	(2)	100	(10145-6-64-6)		-	6.81,23,656.34			
141	Assets TEO India LHC	400kV Corput Enginera, C.T. rg x\$rq > CVT for Reductioned	3015-19	74						
112	VUAY CONSTRUCTION	CONSTRUCTION OF MEW HIDC HOND FROM ASH	3018-78	A,18,287.10						9,19,267.19
113	VLMY CONSTRUCTION	SALD TO SERBOTI GAZE  Development of Electricas  Road (Out side paid  Towned a 1 to 846), yand and  Serbit, yand to COCPI. Are	281819	E41.475.00					+	801ATS18
104	PARKAR CHTERPHINER	CONSTRUCTION OF WIRE. ROAD HISTORY CARACITY SAGAN TUSTAD MADE AND DECRE VILLAGE TO CONNECT ISLANT HORIZON LEVEL ORCOSONO WITH AUTHORIZED LEVEL CROSSING.	2018.10	-						
145	SHELL NEW DIGHT	SS Panaholis	3018-19	2 586 M. 5.35 625 St.		-	-	-		2,086,14 5,16,620,10
140	BHS, NEW DRUH GHS, NEW DRUH	CLEVET RUCTION OF	228-19	0,30,020,30						To Facilia.
NT	PANAMI CONTRACTION	CHEMICAL STORE BHILD AND MISCELLANEOUS CAN, MICRISH PLANT	2019-18	1.53,216.00						158,216.60
100	GC HEIA SCHINTERN	LT Selicitore	2010-24	RIDIDITIES					-	18,04,017.80
-60	HYDROTOCH FARYWARAN	Construction of Servings	2019-28	50,000.00						50,000.00
151	INDIAN PAT LTD WIR LTD NV WATAGER	Trootment Plant of Scharts Mix Switch good Postdiasts	3019-28	11,284,00					-	11,254.00
52	Prograys Inda Pict.	08	2919-28	90,262,19				-		70,003.66
10	WHOCE A HOOF DOMENN	DOMESTIC TON OF HOS	2019-20						1	14,60,700.00
154	DURSA CONSTRUCTION	RESIDENTIAL BLBLONGS	2019-20	14/98/708.00					_	13 30 855 04
Abb	MAGE NOW DELIN	TIT Pacetage	2819-20	13,35,658,04					-	
150	DHD. NEW DELH	9G Pacifieds	3819-30	30,602.00						36,692.96
157		Fire detection	2019-20					-	-	-
756	EMPLES SEESTRUCTU	CONSTRUCTION OF	2015-20							
160	PHYMICONETRUCTION	IND MISSELLANGOUS CAYL HOMBE IN PLANT	2019-20						V	-
180	PETRON PHONESPING C	AREA Best Equ	2009.20						1	-
101	AGAMAN, AUTO SALES	Soding Same For NTPC Segrecti /Ribert series MBOA 2016 to 2015	3019211	4,87 486 00			3,67,443.00		3,87,943.00	1,08,080,00
162	QUANT TO RELOCKE PUT	Process where of Discretelo Face ours Regar leader and The for OLMS	2019-28	- 12					-	
103	MAX SPORTS	Procurement of expedite static cycle.	2019-26	1.0			-	_	-	-
104	DANGER MALTICAL MATRIMENTS	Shooutehard of Pertuite 2005 (1995) Cestyles	2011-22	-14					-	-
101	NUMBER OF THE PARTY OF THE PART	Supply, Creation window Commissioning of at Editorio Sortere Misselled	2011-25	12					(4	+
	FFORTTECH PWN WARW	Communition of Savage	-	14,14,305.00					12	16.16.200.00
160	MOAIPYT, UTO	Descrint From at Rivers CONSTRUCTION OF D.2. C. IS AND A-TYPE QUANTERS	2020-21	340,000.00				240.0000	2.42.000.00	-
180	SAME EL REMATRICITO	AT NTPG REAMED  Man plant oxideously	3035-27	2000					-	
	and the second	400130NV Swietyerk Edenson Package for	2000-21	3.12.346.60			3,12,348.00		3.12.346.00	-
180	BRIDGE FRENCY CHICAL	Street STY, Base III SWIL MORKS FOR CRF		-	_	-	+		-	34.73.676.54
170	LANCO INFRATECHLITO	MTRC RELAKED	3029-27	30,13,018,54				_	-	
(f)	OROMPTON ORBINGS LTD	Elect Each Count transferred	3000-21 2000-21	\$8,31,000.00	1				_	H,54,080.80
m		Pose transforms Procurement of Vides Conferencing Equipments at NTTO Rivard (300 raping of certified and	2020-20							
	Partieral Presige Constructor Co	Socialising of berwell-left Systematics (C.	2025-21	16,76,867.00	2			-	-	(C)CMT10
111	HS. POWER SYSTEMS LTD	Procurement for 2297 thether theres for Link S.	2029-21						- 52	1
175	LIMITORQUE INDIA LTD.	PROCUSEMENT OF LINTORGUE MARE WILVE GERREOX AND MOTORISED ACTUATOR A	009-31	P.					- 1	
176	OMETHON ENGINEY SCLUTIONS PVT LTD	Procurement of CT final Kill for NTPC Rhand.	3000-21	-					12	
101	International Electrosics &	Procurement of Display Socializes for Projection Business in Visional	2000-21							
118	TERRICO RALLE DIGINOSSILI	Preserventers of BYUNP Robots	302041	4,36,16,216.8	10		1			13815240
TITE		Focal emert of Deskito PCs sind-op-Pergraphs for EDC DESC sind-op-PE	3080-37							
400	OD, VEDROD SALES PVT LTD	Propurersent of Network	3000-21							
100		Proportion of National	2020.21						1 5	
181	and the second second second second second	Procurement of Full Hight	4,600	-						1
112	GALTECH INFORCIUTIONS: PRICERD LTD	DEFINITIONSHOLLED Projector: Title PO to made:	2000-21	36,300.0	4					36,308.0



Name of	the Fower Station :	Ritard Super Therwal Power	Station Stage	HI			_			Account to P
Sir File.	Harno of the Party	Name of the work	Fear of seedlow of lability captioned in Gross Block	Underlanged liabilities stating in last an oz. para	turste in aediturul sapitalearior to 2019- 20 asper america (Godiumi I	Contractors GRV spoklan		the pair 2015-20	Discharge during the year 2019-19	Urdedwysi
Iti.	10	0	381	155	(8)	1641	Any pagement	Approversal 150	Total (EHC*18)	(10m3+8+84-9
30,000	ea challen for named Bull 184	Africano y violancio								
101	B-WRAT HEAVY ELECTRORLS UTO	Procurement of blades for PA. Van stage III for NTTIC Rivand	2021-21		1.6					. 2
160	FARIO INTERNATIONAL LLP	PROCUREMENT OF CONCERN CONCENTRATORS FOR PERMEDISME	2029-21				-		(4)	
100	DURGA CONSTRUCTION	PONSTRUCTION OF NOV PROSPECTIVE, DUE, DINGS (ABOYLLON) SHEARING	2821-02							- 34
100	Shared Heavy Electric	Chimeion Perhaps for Stand STPP, Stage-III SPACCLESHENT OF	3021-22							- 1
167	Flamide Private Lim.	SPARES FOR STACKER MODULAMON IN OHP STAGE IN OHP STAGE	2021-00						148	
nia.	ADD India United	Amplementation of Automatic Geodesian Control AGC at NTPC Ringrd Superhernal Power Stations	2001-20						9	34
199	SEESH VIRAYAK COASTRUCTION COMPANY	Construction of Bacterinson Italian Telesti Clubin Telestico	3021-02						7	- 18
190	A22 SUPPLICE	Malt - Giometric Identification, Face 45-8-5-	3021-02	- 1					1.4	-
111	Progility Technologies Put Ltd	PULL HI WOLD CONFERENCE SCUPPINT	3021-22				= -		-	(4)
182	PREMIUM TRANSPRODICIN PRINATE LTD	GEAR BOX PREMIUM ETILISSIS 14 1 GOMP ASSY ST-III	3021-22						- 7	
183	PREMICAL TRANSMISSION PRIVATE LTD	RUID COURT NO 1976 PCV ST-2	2021-22							
194	TEXAMON RALL SHOWS FROM	RODE ALLMINA WASON.	3021-22						-	-
trei	EVENOV EPPICIENCY SERVICES	SIEROY STRUENT	3021.02						-	
100	LTD. ENERGY SERVICENCY SCRWCES LTD	CELING FAN - SO WATT BARROY RPH CRIST CELING FAN - SO WATT IS-	3021-33		- 1				100	
197	HRAL TEXTRONIX PVT LTD.	RESIDENCE FACE CUM	3621-22							-
498	OMESH SCIENTIFIC	CURRIO TANK 570	3621-21							-
100	омевн встемпес	MCLAIR COME CLEE	3821-02						-	-
221	SKS, NEW DELHI	MOULO 150MM TO People III	2012							
300	Sercel Getti	9S Pecelotel Presuppresent of Turknes MM. Others valve for Richard Synga-	30-2						1 2	8
300	PEACON ENGINEERS INC.	CONSTRUCTION OF DI TYPE QUINTERS AT NIPC.	202.21							-
304	LANCO MPRATECHILITO	OVE WORKS FOR CITE	2002-20							
	DURINA CONSTRUCTION	CONSTRUCTION OF NON	3000.21							
	SHARAT HEAVY ELECTRICALS LM 190	Incomposite August Congo Co-Prior to Buggis of Mann Equipment price for Combustion Modification Package for Rithers STPS, Rages of District Land Stage 41 (2008 AM)	20223				*1		1	
306	BHARAT HEWY ELECTRICALS LTD	SAPETY WALVES OF 180 MM SOLER UNITS	2022-23							
107	TRANSASIA BIO-VEDERALS LTD	Supply of Automotic Homeldogs Analyses by	3023-23			-			(2)	1
208	ACE HARRETING PYT LTD/ SAW TURSO INDUSTRY PYT LTD.	HTTC Riteral He per Self. PROCEED WINT OF COMPLETE PLANT ASSY OF PART NICENSTREET SCAL PROTER PLANT OF	202325						· ·	į į
200	ACE MARKETING PYT LITE SAW TURNED OCCUPIEN PAY LITE	PROCURSMENT OF COMPLETE ASSEMBLY OF SERVICE WTG PLMP FOR \$10.3 OF RHMID	302221						- 8	(6)
210	TRIDENT EQUIPMENTS PVT LTD	Programment of Constructionly	3020-20						_ ÷	7
211	HONEYWELL PLYCOMATION SPERA LTD	WHEN TO MOVE WANTED PRING WIND OF WALVECT PARTY FOR MON TO RING OF TODIS GARES	2022-23							
210	JOY MARKETING CO PYTUTO/ KIRLOSKAR PREJAMATIC CO LTD	DOMP SPARES FOR ASH	3025-31						-	-
20	AMY DIGH SOLUTIONS PRIVATE UMTED	Procurement of AVO PSIs for MSRS Riband	2029-31						+	-
214	AMY DIGH SOLUTIONS PRIVATE.	Procurement of Decime PCs for HTPC Bitwest	30321						7.	
	TSOPRO BYETSHELTD (Dry Aut.) System)	Ask handing	2023-24						33	
	SHEL NEW DELHI SHEL NEW DELHI	SG Pacetage TO Pacetage	2023						- 1	-
		Stort 2007 Switchguid Cramice: Package for Ristors XTPP, Stage 81	2823-24						+3	
	MACAWARIN BRIDGAY PAT LTD (Dry Ash System)	Baterier work for Dry Auti Extraction System, Stage-R INTPS Street	202524						LAMIS	PIYUSH



परिमल पीयूष/PARIMAL अपर महाप्रवन्धक (कर्मक डिक्ट्स) Addi. General Mensqer (Coron all एन टी पी सी लिगिटेड/NTPC LIMITED एन टी पी सी लिगिटेड/NTPC LIMITED EDC, A-8A, Sector-24, Noida-201301 (U.15)

## Statement of Linkshith Flore

	the Fower Return	Disgraf Super Thorwal Power						7.	Amount in Ra	
r He	Name of the Party	Serve of the locals	Year of unation of inability captained in Gross Block	Tubility in additional captainant on to 2000- 21 as per amorane descaren 8	Contractors ERV application	En year 2020-20	Discharge during the pear 2000-01 III day seessal	Chestage doing the year 2009-21 Total	Lindschunged seinber retiting to GB 31-93-2007	Landscrawged Explines relating to the 31 st 2021 by
cn.	ab	TI.	(4)			by page ent		708		(10)-(3-6-64.3)
CEL	to eligible for sormal field IM									
163	DHURST HEAVY FURCTRICKS	Procupement of tracks for PA. Euroscage & for NTPC Riment	2829-21	145,708,71					3,65,705,71	5,68,785.7
104	CANONO BITEMBANTONIC LLP	MEDICURSURUE OF CONTIGEN CONCENTRATORS FOR PRIMED CO-450	0025-21	7,38,805.05		10		1	236 KH 26	2.34,960.9
110	DURBA CONSTRUCTION	CONSTRUCTION OF NON	2021-22							-
186	Sharst Heavy Deck	RESIDENTIAL SELLINGS 4001000 Services Expension Package for Minant STRP, State IV	2021-22				. L	,		
197	FLament Private Life	PRODUREMENT OF SPARES FOR STACKER PECLAMER IN CHP Stage IN HERO SHARES.	3021-22							G.
165	ASS teste Limited	Ingrementation of Automatic Generative Gentral ASC at NTPC Hirand Superthernal Power Stations	2821-22							
109	SICCHE VINAVAN COMBINACTION COMPANY	Coestsubben of Bedriveton half in Trivet Clab III Transative	3812				_			
400	AZZSUPPLIES	Martin Bishery. Identification, Face 434575	2021-22	1				- ±	1 4	
196	14200-1111	Rate Recognition Time RALI HD VIDEO						7		
191	Proglity Technologies PVI LSE	CONFERENCE EQUIPMNT-	2021-27					*		
m	PREMIUM TRANSPASSION PREMIUS L'TO	GDAR BOX PREMILM ETL 6600 14.1_COMP ABBY ST-8	2001-002							
190	PREMIUM TRANSMISSION PROVATE LTD	PLUIO COUPLING 1276 PCU ST-3	3021-22		10				+	
194	TEMPLES HALL BRIDGING HIS	DOOR ALMIN WADON	7921-73						±	
adales i	EMPROY SHIPPOPICY SERVICES	TYPE BOW PRINCE EFFECTIVE	2621-22						1	
198	ENERGY EPPLOANCY SERVICES	OBLING FAN SO MAIT IS OBLING FAN SO WATTIS	202122					+	+	
1 let	HIRAL TEXTRONUS PATILTO.	S OHETH CHICKNES OUN	2021-22					-	1	
107		RMSK FRINT ACG	3021-22						-	
185	ONESH SCIENTIFIC	MOLLOSS TROSPOURE			_					
189	CHESH SCIENTIFIC	MOULD SHIPM	9001-02 3001-02	-		-		1		
201	BHEL NEW DOLH	35 Pacehage SN Pacehage	3021-22		-		_	-	_	
306	Sergell (Ind.)	Procurement of Terrare RPAL (Xven valve for Ritano Syege 81.	2921-22							
331	REACCH ENGINEERS NO	TYPE QUARTERS AT NIFC WHALD	2623-03							
204	LANCO MERKITROPILITO	CIVI WORKS FOR OFF WITPO RHAND	2002-00						-	-
206	DURSA CONSTRUCTION	CONSTRUCTION OF NOW	303-21							-
	BHANT HEAVY ELECTRICALS LIMITED	WERD DENOISE, SEA, DIVIDED RESIDENCE SUpply of Man Charleston Street for Cambustion Modification Purchage for Research STPS. Stage-II (2950) MWI and Stage-III (2950) MWI and	3003-23							
206	BINAKAT HEAVY SUCCESSORIES LTD	PROSE, PERMONT OF HISTORY WALNESS OF 500 BANKETY WALNESS OF 500 BANKETY WALNESS OF 500	2022-29					-		
307	TRIMBIGIA DIO MEDICALS LTD	Supply of Automatic Homostopy Amilyser for INTPC Hinand (As per Gelf)	2022-29					-		
301	ACE INVENTING PALITICS NAM TURBO MEMBERN SALL FLED SAM	OCMPLETE PUMP ASSTI OF FAMP 41/8/P HP SEAL	0020-23		1			1	1	
201	ACE MANUFACTING PVT LTD SAME TURBO INDUSTRY PVT LTD.	MICCOMMENT OF	2000 20					54	=	
210	TRECORT EQUIPMENTS PVT LTC	Present enterts of Conductivity makes for NTIPC BRHAND	3023-29							
211	HONEYWILL ALFOMATION BIGGS LTD	PRODUMENT OF BIOLYTICAS DETECTION ANALYSIST FOR MONYORING OF TODG GASES	2022-00						-	
10	JOH MARKETING CO PVT LTD/ HORLDWAR PHELMATIC CO LT	Princepool of Compress	2022-79							
210	WWW DIG SOLUTIONS PRINCED	Proposesses of AVD PCs for	2022-02							
-	THE PART OF LANCES OF A 2 P.	Processed of Dearing PC						0		
274	SECTION SESTIMBLES AND	No NTPC Rhand	-	_						
	THINK I ID. VEN DILH	Auth mendling	3023-34							-
	E-B. NEW DELFE	SS Paramoun SS Paramoun excellent excellent Surveyant	2005-24 2005-24					-	1	
	Sheet Heavy Glicki MACAMBER RESIDENCE PAT LTD	Biography Package for Bingery STRA, Stagent Datation vitor is the Day Add	3025.04				-	-		-

180 Aug 150 of 100

परिमल पीयूप/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिज्यिक) Addl. General Manager (Commercial) एम टी पी सी लिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

#### Elebratest of Liability Flow

1000	Fre Fower Station	Billiand Super Thornel Pose	200000000			100			Amount in F
Sr. No	Frame of the Party	Spains of the years	From of streams of limiting copyrighted in Choosystees	habitly in additional capitalisation for 2021 22 at per dimension 60-column 9	Contractors ETV updefror	Discreage during the year 2021-22 ge -by payment	SET+52	Overheige during the year 2001 (0)	
CO.	(2) the wing this first received their (2)	(3)	.90			XL1900HBC	-cy revenue	1500	
165	SHARAT HERMY SUBCTRICALS LTD	Preconsment of blades for PA fan stage-61 for NITPC Rihand	3020-21			385,705 71		3.68,726.71	
104	FLANDO INTERNATIONAL LUF	PROCURENEUT OF OXYGEN CONCENTRATORS FOR ISHMOLOW	2005-21				2,14,000.00	2,38,000.08	
105	DURSE CONSTRUCTION	CONSTRUCTION OF NOW RESIDENTIAL BULLDINGS	3021-02	(0.06408.26				-	12,05,428.20
100	Shoot Hoey Breits	ARTHRON Swinnerd Extension Package for School STEP, Stopp S PROCUREMENT OF	2821-22	6,86,968,00					6,86,966.00
167	Flamidh Private Lie	PROCUREMENT OF SPARES FOR STACKER RECUREMENT OF Stage III MERCHANDI	2921-22	56,28,580.00				4	36,26,560,00
186	ABB (ede Limited	Implementation of Automatic Developing Section AGC of MTPC Rithard Superficient Place Statem	3001-02	4271,079-80				(4)	42,71,079,09
189	MICCHI WIMINIAK CONSTRUCTION COMPANY	Construction of Badameras had in Toyest Date in Toyestia Must - Branchis	3051:55	2,54,450 (0				- 5	254,400.00
ter	A 2 I SUPPLIER	Pain Recognition Time	2021-22	20,408.08					20,196.00
191	Progray Technologies Pvt U.S.	COMPRENCE EQUIPMENT- 1000P	2821-22	2 10 202 00				1.0	2.19,212.00
-	PREMIUM TRANSMISSION PROWITE LTD	DESTRUCTION OF THE STATE OF THE	2021-00	1,22,72,000.00				+	1,22,72,000.00
185	PREMILA TRAVENSISION PRIVATE LTD	FLUID COUPLING 1275 FOU ST-2	3001-22	1,30,942.60				(8)	1,32,962.09
134	TEXMACO RALLA ENGINEERING		3021-22	2:09.15.808.00					2.99,15,500.00
190	WENTY STRUSTED WY SURVICES	TYPE GTAP GARREY EFFI DENT	2021-22	19,11,152.17			-	-	
-	LTO GREAGY EFFICIENCY SERVICIS LTO	CELLING PAN SO NATT	3001-07	32.61.708.66				-	10(11)153-17
	HIRAL TEXTRONIX PYT LTD	SOMETHIC MICHAGE CUM FINGS PRINT ACS	2021-22	43,03,01					43,628,00
178	DIESHICENTEE	CURING FAMILITIE	paining.	1,38,119,30					1.96,110.37
108	ONESH SCENTRIC	WOLK DIS 100M; CLEE WOLK D 150MM	2921-20	24,118.00				1	24.119.00
200	BEL NOTCE:H	TO Penekapa	2052	1,06,408.6X 4,13,340.00	2.85,119.25				E69.524.64
200	BHEL NEW CELH	SG Panelage Programment of Turbine NAL	201520	4,12,340,09	7.49,179.43			-	1178816.62
262	Seinpali Ginbirl	Draid value for Rinand Byage. M.	2021-02	1287.50				4	1,267.56
283	REACON BYOTHERING NO	CONSTRUCTION OF BY TYPE QUARTERS AT HTPG- RHAND	300225					+	
394	LANCO REPRATECHILITO	CIVIL INCREAS FOR CRE-	2000.03					-	
305	DURSIA CONSTRUCTION	SOMETRICTION OF HOM SERIORATIVE, BUILDINGS TO HOME SUDDY OF MED	3019-21					+	
2	DHWAT HOWY ELECTRICALS LIWING	Co-Hories Supply of Main, Disaspreed price for Combursian Modification Package for Reserve 87PS, Disago-4 Co-500 MMA and Olage-4: (2000 MMA.	202-23					+	
	BHARAT HEAVY ELECTRICALS LTD	PROCUREMENT OF HRH, CRH, DRUM AND SH SAFETY VALVES OF SIO MW BOLLER UMTS	2922-78					ŧ	- 1
287	TRAVEASIA BIO MEDICALS LTD	Supply of Automatic Hematology Analysis for MTPC Resources per stell PROCURSING NO. CO.	2020-23						
	ICE MARKETING PVT LTDI GAM TURBO INDUSTRY PVT LTD	COMPLETE FLMP ASSY OF EARP 41-6-19 SEAL WATER FLMP OF PROCESSMENT OF	30(2-2)					- 5	1.0
	ICE MARKETING PVT LITCH SAME TURBO INDUSTRY PVT LITCH	PROCESSEMENT OF COMPLETS ASSEMBLY OF SERVICE WITE PLMP FOR STG-3 OF REHARD	20(9-25					- 4	
210 7	RODY OQUENCYS PVT LTD	CONTROL OF THE PARTY OF THE PAR	2823-23					- 1	- 14
	MUNALTO	Procurement of HULTICAS DETECTOR ANALYSISH FOR MOUNTORING OF TOXIC GASES	2022-02						11
	OF WARETING COPYTILIDY INCORRAN PHENANTIC COLCID	Progressor of Compressor for AHD 2HAZTERT and COMP SPARES FOR AGH	2022/23						14
210	IMITED	Procurement of AID PCs for NORC Ribard	2020-28						
100	WY DIGH SOLUTIONS PRIVATE I	Procurement of Desirop PCs for NIPC February	2023-25						
10	ECPRO SPETEINS LTD (Day Age Indone)	Agit handing	2023-24						
- 19	HSL NEW DELFE	St3 PaceAlice	898						
	Parent Prisony Electric	TG Pavelings ASS/1530V Sertchysell Catention Package for	2023-24				Negoci II		2,000
	THE STATE OF THE S	Rhand STRF, Stage-III	ACT 100 11		1			200.00	I/PAR

M ....

परिमल पीयष/PAR MAL PIYUSH अपर महाप्रबन्धक (वर्गमिक्सिक) Addl. General Mannager (Committeel) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

_		Wheed Super Thornal Powe								Amount is
ir no	Fisher of the Poety	States of the work.	Year of creation of behilfly capitalised in Chees Missis.	Understanged habities relating to GB 01.04.2002	Patitity in editional captainsation for 2000- 73 as per atmosree IS-column 9	Consulton ERV spelation	Decharge auting rins year 2002-28	Osehage during the year 20/2/23	Dealthings during the year 2000-20	Underlanger Subtries state to QB 31 83 20
CO	12	- 0	.140	710+5-6-54.61			- Se promeri	-by several	Total	
183	ets eligible for normal RoC (A) BHANKE HEAVY OLECTRICALS. LTD	Processment of Basins for PA No stage-11 for N/IPC Robans	2020-21							
194.	FLANKS INTERNATIONAL LLP	PROCURSIES/TOF CONCENTRATORS FOR	2008-24	34					1	
186	DURBA CONSTRUCTION	CONSTRUCTION OF NON	2825-20	1208-409.26				-		1206408
105	Brand Feety Electr	PRESIDENTIAL BUILDINGS ADVISSIV Switchesed Coronical Pseciage for	2621-00	1.90,900.00						1,00,000
107	Floredt Woode Lim	PRINCE STEP, SLOON IN PROCESSING OF SPARES FOR STACKER RECLAMER IN CHP STAGE BLINESS SHARED.	3621-22	36.26,580.90						10,70,000
168	All trate Limited	Nuprementation of Autoropes Generalism Control AGC at NTPC Rinand Superthernal Please Stations	3001-22	42,71,070,10			17.42.480 80		37,42,662.00	ion.
189	SECRETARYAN COMMISSIOCHON COMPANY	Construction of Bacherten Roll in Trinesi Club to Township	2021-22	2,54,430.30						2,84,439
100	A 2 E BUPPLIEN	Multi-Blammic Identification, Face nindrin	3081-82	30,100.00					1.0	20,100
m	Fregity Technologies Pvf Ltd .	Pain Resolution Trim PLLL HD VISHO CONFERENCE EQUIPMNT- 10982	3021-22	2 19 202.00			36,547.00		36,547.00	1.827360
192	PREMIUM TRANSMISSICH PREMIUM TRANSMISSICH	GEAR BOX PREMIUM ETL \$200 161, COMP AGEN ST-III	2021-22	1,22,72,000.00			C22.72.000.00		(22,72,008.80	
193	PREMIUM TRANSMASSON PREMATEUTO	FLUID COUPLING 1275 FOU ST-8	7871-22	132,942,00			(32,594.00	308.00	1,32,962,00	10
194	TEXMSONAL LENGHEERING	HODE A DATE WAS IN SIDE	2011-22	2,00,15,500,00						2,00,10,000
195	PRINCIPLE SERVICES		2021-02	16,11,153.17			17,58,184.60		17.95 194.80	14,966
100	ENERGY ETHODYCY SERVICES	COLING PAY - SEVANTT ENGRGY EFFYSION COLING PAY : 10 WATT #	301.0	\$2,01,798.96			10.00,790,90		00,61,706,58	14,000.
ter	HARAL TERTHORIX PVT LTD.	BIOMETRIC WO FACE CLM	2021-22	43,828.80						43,626
168	DNESH SCENTIFIC	CURNO TANKSTO	3001-22	138,198.37			1,38,110.37		1.06 110 07	
-	DINESH SCIENTIFIC	MOLECURE 190901/CUBE	3001-00	24,119.06		_	34,719.60		24.119.68	_
200	BHEL MEW COLH	TG Pecalings	3001-30	6,89,024.84			0411000		26.119.00	6.80 504 5
281	BHET HEM DRIVIN	SGI Pacabage Procurement of Turbine MAL	3021-22	11.76.619.62		_				11.78.516.1
202	Seeiges Seider	Dian value for Riverst Kongs. III.	3021-21	(267.50)					100	1,887.0
~	REACON DISCHEERS IND	CONSTRUCTION OF ST TYPE QUARTERS AT HTPO- SCHOOL CIVIL WORKS FOR OW	3010-03	100	18,22,450 31				(3)	39,22,4963
EH :	CARDO HITRATED+ LTD	INTEGRINAND CONSTRUCTION OF NOV	2022.23		35,65,653.00					35,08,853.0
108	DURSA CONSTRUCTION	CONSTRUCTION OF NON RESIDENTIAL RULI DINCE ILL MO NI SUDDY OF MAIN Emigrand priva for	2829-08	+	13,65,79743				- 1	13,66,797.6
	LW100	Contraction Welffication Peology for Edward 5/745, Stage-8 (2:550 HHR) and Stage-81 (2:650 MW), PROCURS MINOT OF	200-23	1	16.85/10.00					15,05,778.3
	EMARKAT HEAVY ELECTRICALS L/ID	HER CENTORUM AND SK SARETY VALVES OF 180 MW BOILER LIMITE	2022-23		52,460,00					29,442.0
167	TEANBASIA BIO-MEDICALS LTO	Eapply of Automatic Hernandogy Analyses for NTPC Rithard Life por Galif. HINDCUREMENT OF	2022/01	5.	8,84,800.08				- 4	8,54,800.0
	TURBO INDUSTRY: PVT.LTD	COMPLETE PLMP ASSY OF FAHP 40-8-10-HP 36-M.	3029-23	12	99.349.09				T	60,349.0
	ACE WARRETING PYT LTD SWA TURBO HOUGHTY THT LTD	PROGRESS OF COMPLETE ASSESSELY OF SERVICE WITH PLUST FOR STG-3-OF RIVERO	2000-00	- 7	9,91,516.00				89	1,91,516.0
po-	TREDENT EQUIPMENTS PUT LTD	Associated of Cardustisty mater for INTPC REMAID Procurement of MULTISAS	3622-25	- 2	550,210.60				-	8.98210.0
ni.	HONEYWILL AUTOMATION HONELTO	DETECTOR ANALYSES FOR MONITORING OF TORIC SASSIS	2002.01	25	6,38,380,00					5.28,050.0
	HIRLOGIAR PARJAMETIC COLTD	COMP SPARES FOR KIEL	200221	25	1,78.62				12	1,720-60
	WAY DIG BOTTLICHE LARVAGE	Principles of Art PCs for NTPC Altrand	2022/23	141	8.84.898.00				-	SALES CO
17	ANY DIST SOLUTIONS PREVATE LIA TO: TECPRO SYSTEMS LTO EDY ANT	Procurement of Downlog PCs   for STPC Scherol	3622-29 3023-24	-	7,80,848,00					T.80,308.0
- 12	Septemi SHEL NEW DELHS	Astronomics 50 Parations	3023-24			-	_			
- 1	BHEL HEW DELH	TG Pleakage 40013200 Suretyard Economic Pleakage Sc	20034 20034							
-	Harristens Beerley Bury (TO	Bilanci 6097, Sigga-V Bilanci verk for Dr. Adt Actuation System, Stage 61	2023-04	+						



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिक्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

100	and of the Company:	MYRC Links			-	m-á							
-	and of the Power Station;	Ritard Super To	read For	not Station No.	98								
10	No Service Service			Year of sensition of fatority	Undectarge Families objets	oto item	ally in sostone		Darbar V	a da se	Danay		Ance Underta
- 10				Gross Month	PR 0134 202		police 8	Upontine .	Till hear	2023-94	Charage daing to yea 3000 St	Discharge of Present 200	
Fac	Assets eligible to reprint For	(3)	_	10.	1700001-61EA				- Series	· Tarret	Ayresanai	-	1,000,000
	ES BHARKTHERWELECTH	134115		-					6502	VT 803 1503.34	111111111111111111111111111111111111111	Total	
Ė	ETD	Procurement of law fer stage-of the total PROCESSERVENT O	CAlture	2000-01		1				7/1			
**	M HAND WERNSTONE	DONE SHIPMATORS SHIPMATORS		3030-21	, 83						-		+
16	INTERNATION OF STREET	TOROGODIAL PLAN	P NOA!	39(1-22	12.08.408.3				-				1
11	E State Heavy Clocks	Satereian Package II	4	2021-22	0.05,000 to	1			541,	64.21		5.41,160	20 6/6526
in.	Rands Printelle	PACCLESIONAL CO SPARES FOR STACE	en .	3001 dg		+	-						8,85.60
int	Alie Inda Limited	PECLA WER IN CHO II INTPORTUNADO I molementation el la Generalien Contra A	(Magain)		34.29.560.60	-	-	_		-			36,28,00
100	500W VINDYAK	MTPC Riband Supert Forest Stations Communities of Barlet		2021-02	E.M.MIS CO								6,29,000
100	CONSTRUCTION COMPANY	y Pall in Trises Out in Torresto W/8 - Disputie		3691/22	254.400.00					1			2,94.400
1		Part Recognise Tee		2021/22	20,108.00				30,10	N:00		39,198.0	-
781	Progetty Technologies the Le	CONFERENCE SQUE 30607	75.75	2021-022	1,92,795 (0)					1		Contract	
160	PRINTE LTD	GEAR BOX PROMISE BTURZEZ HIT_COMP ST-8:	ASST	3921-22	- 7					+		-	18278
100	PREVIOUS TRANSMISSION PROVATE LTD	FLUB COUPLING 12 1 FCU ST-3	1	2001-09	- 3					+	-		
194	TOWACO RM, & SVORGER	Their server	DAL .	2021-02	2.89,16,600.00		-				- 1		19
105	THE REAL ENGINES SEED	GGLNS FAN - 50 WAT	_	1921-22	74,909.57	_	-	-		1			268,16,800.0
184	ENHAGY EFFICIENCY SERVI	CRE EMPREY STEERS	-	2021-02	-		-	-		-		9	74,908.0
90	HERE, TEXTRONIX PYT LTD.	FREE PRINT ACE	tiens	2021-00	61,838.00		-			1		-	-
**	ONESH SCIENTIFIC	CLIMBIO TANKSITO	- 1	1021-22	44,830.00	_	-		45,60%	00		43,838 co	
-	ONESH SCIENTIFIC	MOULD'S YOME TUBE		101.22		_	-	-		-		- 1	-
	BPEL NEW DOLM	SGI Parango	2	(A) (B)	0.00 524 MI 11.70 218 62			-	_	+	_		-
102	Sempert Cresses	Proceeded of Tuesday & Crein valve for Rihard Sy St.	ev.	121-29	1,997.55					F	-	-	HARRING.
0	MSACCH ENGINEERS INC	CONSTRUCTION OF SE TYPE GLANCISTS AT RE BRHAND	rc- in	17-23	78.72 60.0a			-	mi ma ana a	-	+	-	1,247.56
	ANDO IMPRINTEDITUTO	DONE WOOMS PRINTED	- 20	(2.2)	15.88.868.00	_	-	_	24,22,414,5	-	- 3	k 22.458.55	
5 0	RUNGA CONSTRUCTION	CONSTRUCTION OF NO	2	-	13.85.707.60	_	-	-	-	1		- A	85.88.853.00
	PHARMS MENNY GLECTRICALS	Corporation Modification Penings for Reland STPS. Strong Lower About	28	ex 11 2	9.85.718.20			1	it et Nive		- 0	BL787.52	75,05,778.jg
0.7	HAVAT HEAVY IS, ECTRICALS	PROCUREMENT OF HERLORIUS AND SH SAFETY NAVIES OF SIS	200	nian i	20,452.00			-	22.400.00	-	-	955	
to	TANSAGER BIT MEDICALIS LTD		302	125	5.54,60s on		-	-		_		22,440,00	10
ACT I	E MARKETING PYTLEDY SAV REGINDUSTRY PYTLED	SOF PART HARDING HER COM			08:345:00 J		-		1,64,650 ps		9.0	P4.880.08	
40	S MARKETING PET LITS GAW MEG MOLISTRY PYT LITS	PRODUCTION OF OR PRODUCTION OF THE PLANT FOR	-	121 6	91516.00	-	-	152			-	-	91,349.00
m	DENT SOUPWENTS PYTLIO	Programmer of Constitution	2622	as e	50,210,08	_	-	- 2	21,518,00		10	1,818,00	1
NO NO	NEWELL AUTOMATION	DETECTOR ANALYSIS PROMOTOR AND TOTAL POR MONTORING OF	2022		25.350-dp			70	50.2160e	_	59	0,316,80	-
JON 175	MARKETING CO-PAT LTD.	Promotest of Compression for AHD SHADTORT and	3022	23	1.796.82			- 4	28.280(8)	_	4.21	1.560.00	
UNI	DIG SOLUTIONS PRINTS	Precisional at A/O ROL No.	10000	20	1000		11						1.738.62
JAM'S LIMIT	DISE BOUUTIONS PROVINTE	NTPC Rivers Procurement of Decision PCs No NTPC Ricerd	3020.2		04,080,00			- 1				-1	0.54.600.00
Nece System	PRO SESTEMB LTD (Day Aug.	Agn families	2620-0	-	0.398.00	8871						+	7.59(390.0)
3676	HEN CECH	80 Pecasage 10 Pecasage 601 Sava Burichyard	80054	9		50.31.70	400				1	17	20,505,12,00
Sheri		KONT JOYAL Burichyard Cometen Package for Whand STPP: Raige-III	2023-2			434.65	7.00		-			-	-
Maria.		Relation such the City Addition of Systems. Shaper 8.	2023-2-			-24.00					0.1		425897 OR



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिजियक) Addl. Goneral Manager (Commercial) एन टी थी सी लिमिटेड/NTPC LIM(TED) EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

#### Statement of Lipbility Flow

Vario of	(the Company)	NTPC Limited Ringral Report Therenia Power	Station Stars	. 0						V.V C.U V.D.
Owne of	the Power Station :	Richard Raper Danish Ports	JANSLAM.							Amount in th
s 100	Name of the Pody	States of the work	Tear of creation of trability sapital-rection Gross Shock	Undercharged fashious relating to GB 31 (00.2019 @	Sability in additional cognitivation for 2019- 28: as per amoreurs 69-catum 9	Contractors ERN Lecturos	ttioyeat 2019-28	(haryant 2016-28	Distriction districts free year 3015-00	Undercharged Labilities publing to GB 31.00 3002
			101	18	161	1844	ite asyment	-by spectral	(B)=(7+8)	continues in
(1)	ds white he econg Roll IV	(A)				197	***	25.54	100000	
	IZABBIC ENTERPRISED ID'Y AND Content	Superstructure for ASPH, Rhand	2823-24						-	116
	EARTH ENVIROTECH SYSTEMS	Proceeded and installion of Efficient Treatment Plant (6179 at	MISSES.							-
	SYSTEMS INDIA (Dy Ash. System)	Supply, Erector and Commissioning of DES Season for SFG III Dry Am	Men						- 4	
	o v evronmass son Air system	Processed of Scrap/Civil Debris Proce Ash Storiy Purisi House Area Stage III.	жем							
	Sharat Heavy Decreosis Ltd	Suggry of SHEL reader 500 Mely Constrator Rodon for Arrest Albertal	3025-04							2
	lime at Heavy Discolosis Urb	NUMBER OF REASON STORPS THRUST BLANKS CAP BUT RE STOLES AND THE BLANKS OF DOMESTIN	3025-34						- 4	- 1
	Shared Heavy Geoderals Ltd	BOYCY OF COMPLETE BOY CARTRIGOE KENDORLY FOR STAGE-3 AT NEED	2029-81						- 5	
	THERMAN LTD	PROCUREMENT OF PICE FRANK, FOR STAGE 3 KMM MACHINES FOR INTPO RHANG	2025/214							75
	SARTIGON HITL	Processment of Calife Opacky Analysis for 60608 MW RIGITED	3025-2W						14.	
	FORSES WARSHALL PUT LTD	Supply of WAS explain for Main surpline, GFP AND IOFO/PA FARS of Rissand	2023-04							
	ROW INDUSTRIES NEAD PROMOTE LTD: (Dry Ash System)	Earphy and hashing on of EDT Crave for ADPH studying Riband (Capit	2023/04							5 - 100
	Shalal Heavy Electronic Uni	Supply of IP Shoth Healing Ring Assembly for SHEL 500 MAY Units. 40 NIPS	2023-24						-	1
	(Moses Freely Electricate Ltd	Promisered of SHS. Copies Space For HTPS Filled	3809-04						75	Ē
	WALLID	Processors of Impales of T050W pures 8060W come. 9060W	5000.54							
	PATH COMMET PAT LTD	Oune of Stock II; THD, PARCUREMENT OF 15 TOW WINDOW A.C.	2019-24						- +	-
		-	Yearly	1,01,48,43,211	1,41,17,146	75,86,162	APLELIN	1407600	6,15,58,400	14535,0402
	eta oligiole for flot, at Visiahimi An	war first of terroral or law	O.							
ESCARA	Work Security Put Ltd	Augmentation of CCTV National for Security 4748479	3023-84						18	-
_	1//	Sunsitioned of NOYC	Total (5)							
					- Contractor Contractor			777777777	677.57	1,01,07,01,07
				1,11,86,61,313	1,43,57,145	-TE,68,182	ANUALIN	5,43,74,062	6,36,56,900	10000

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (पाणिन्यक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Nolda-201301 (U.P.)

#### Statement of Liability Prev

- Barrier St.	The Company : Fire Pewer Station :	School Super Thornal From	et Station State							
-			-						Amount in Re	
ār tes	Nesse of the Party	Name of the work	Your of creation of history coptralised to Gross govern	hetrity in accidence copiralisation for 7023 25 on per entropian Buildings 8	Contractors ERV spetation	tion here series say	Decree pe du my Em peur 2020-21	Chesterge during the year 2008-21	Linkson arged	Underdung National relate GB 24.08.29
111		- Di	141			-by payment	. And revenued	Total		
25,4404	ea oligible for correct flot, (A)	Shadwal Web its								Clinicaters
1	CLASSIC ENTERPRISES (Dry Au System)	Recommended of Superclaubies for ASPH, Blassed	3023-24	-					- 84	-
	SATTH ENMASTRECK SYSTEMS	Procurement and learnable of Efficient Trisonest Plans (EEP) or	2023-20							
- 1	BOUNDERS CLECTIFIC SYSTEMS INCO. (Day Apr. Section).	Supery, Eversion and Communitaring of ECS Sentem for STG III Day Aug.	2023-24							
	S V SINTERPROSES (Dry Ass System)	Prent Ain Study Pures House from Ain Study Pures House from Steps III	303334						-	
	Brand Heavy Electricals (15)	Supply of ERGL, stake 600 AMY Serverator Ristor for INTPG-Risband	2023-34		1			+		
	Oborod Honey Discholars, List	SUPPLY OF KINST- STORPY, THE LIST STORPY, THE LIST MEARING OF COMPLETE SUPPLY OF COMPLETE	3023-24					-		
	Brand Heavy Mechanic Let	ASPENSITY OF STAGE 4	3003-04					- 3	- 2	· U
	DESCRIPTION	AF STPC PROCESSEMENT OF PLO PAMES, FOR STADE O VAM MACHINES FOR STRC BRANCO	3929-24						- 4	
	MALEON MIT	Processment of Children Operaty Asseyser for \$2000 MW Registro-	2025-04					1.0		
-	ORBER MARISHALL PATILITY	Scoply of VMS cycles for hiten buttons 877" AND SOPOPA Fair of File and Scoply and installation of	2029.26						-	
- 6	BWATELTO (Dry Ast System)	Supply and Installation of EDT Crane by ACPH Suiting Ribseciatings	2005-04						*	17718
		Supply of 6P Shaft Desiring Pling Assembly for Shift, 508 MM Chill, 31 NTPC	3023-34						-	3
0	hand Harry Coulomb (co	Procurement of BING, Capital Spares For NTPC Revised	3925-QH					-	-	
w		Procurement of Impoles of PGEOW pump, Statistics String of Riese (1, 1940)	2023-24					. 1	-	1
0,	ATH COMMICT PATILITY	PROCUMENDATION 15. TON WINDOW A.C.	263-24							
+			Total (A)	2,21,81,912	38,42,061	T/, SLOCARS	6.0a.11.0gs	23,54,53,506	C29,31,00,016	12020.000
linels	ethylis for Poll of Weighted Aven	age flats of transaction have the		11774-1579	21-100-0			45000000	CARGADOWN 15	1,26,35,00,0
	rom Security Pur Law	Landanian of Tarriy	3023-34					-		
		THE RESERVE OF THE PERSON OF T	Torse (III)							
					_					

परिमल दीयूब/PARIMAL PIYUSH

वरिमल दीयूब/PARIMAL PIYUSH

अपपर महाप्रश्नासक (कार्तिनाडिनयाडी) तो

Addi. General Manager (Communication)

एन दी भी सी लिन्दिड/NTPG

EOC, A-8A, Sector-2A, Noida-201301 (U.P.)

#### Statement of Liability Resc

PARTIES OF CO.	the Power Station	Riftsed Super Thermal Power	Station Stat						
-									Agreed in
dr. Ne.	Name of the Party	Name of the noti-	Year of creation of biddity copitalised in Greek Black	Satisfy is additional copharmation for 202- 22 as per alimeters B-column 8			Discharge suring the year 2001-20	Onotrarge during the year 2021-22	Underharps Sabilities result in GB 31 03 25
(%)-		- 16	140			-for appropries.	By reversal	Total	
	(s.eligide for naveral Roff (A)				-				
	CLASSIC ENTERPRISES (Dy An System)	Resident West for Programmation of Superstrature for ASPH, Rivard Programment and treasure of	3823.24					13	
	BARTH ENVIROTOCH SHATENS	EMuset Tradesic Plant	2025-24					502	
	DOWNS NOW 1019 April DOMNS	STPLet Supply. Exection and Commissioning of DCB System for STG Ht Cry Agn.	2025-34					- 74	
1	S VENTORPRISES (Cry Ash System)	From Ash Starty Fung Horse Arts Starty Fung Horse Arts Start II	2023-24						- 2
1 3	Charat Houry Bredstein US	Supply of BHEL roaks (at) other Generator Rotor for NTPC-Rhigang SUPPLY OF KI401-	2023/24					===	
	Sharat Henry Sentings Ud	SUPPLY OF KINDS SCHOOLS SAP BUS RE SUPSE SAP BUS RE SUPSE SAP BUS RE SUPSE SAP BUS RE	3003-34			1		74	6
	Star of Heavy Discoonly Ltd	ASSOMBLY FOR STAGE-1	2023-34			- 31		- 9	
	THERMAN LTD	PARCED BUILDING TOP PEC PARKEL FOR STAGE 5 WAS MACHINES FOR STRC TERMAD	3620-04					33	
	SARTIGISH INTL	Propurement of Chicae Disease Analyses for EXSOR MW RESERVE	2023-24					1	
_1	PORBES WARSHALL PATERS	Second of Web system for Main turbers, RPF AND IDPOPA FAN of Rivers	3023-34					=	
	REVARIEUSTRIES INDIA PREVAREUTE IDV Joh Guillerii	Sveroly and Installation of GOT Cases by Again Building Ricend staces	3023-34					-	-
	- management of	Supply of IP Shalt dealing Hung Assembly for SHSS, 500 Main Units, at HSPC	2023-24						
		Promisers of DAGL Capital Space For MINC Related	2025-2A					*	-
-	MARCHINE TO THE PROPERTY OF TH	Procurement of Impoles of TOBICW pump, SSRICW Sectle of Steam (1, 1945).	2023-34					-	
- 1	MITH COMMECT PATILITY	SECOLOF SIGNED FOR 15 PROCURES ENFOR 15 TON WINDOW AC	3825-24					-	
			Total (A)	4.98.79.311	10,34,193	8,85,65,172	W2,66,100	8.78.34.200	1,24,63,96,236
assets	eligible for Earl of Weighted Aver	was their of interest on least the	1	3 -00 -00 -00 -00	2000	-	-		- AND COLUMN
	Comp Special Park Lat	Alighenties of CCTV Network for Security -1748-09-	2023-24						- 1
-		Barrellance of MTSS	Total (III)				-		
					-		_		

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (याणिवियक) Addl. General Manager (Commiccial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

#### Stramoni of Linkshy Flow

lame of	the Company the Power Station	NTPC Linked Riserd Report Treemail Press	Mallon Kay	č.						
9- Mi.	Figure of the Platy	Name of the work	Year of president of statility conditioned in Gassa Glock	Underharged labilities reading to 08 Ot 04 2022	lubility in additional septimises to 2022 2) se per orneuro 18 odune 9	ERV updellen	Checkenge during the year 2022-23	Discharge stating the year 2012 25	Distinge during the per 2022-23	Underhages autilities relating to OR 31 db 20
(t)	76	(9)	00	ARMADE ANALOS (M.			de anoment.	-bosemid	Total	
OF BASE	to eligible for scenal Roff (A)		- 00	приснения.						
	CLASSIC BUTCHINESES (Dry Ave. Dysoes)	Structura Wice for Reconstruction of Septentructors for ASF11. Result	3/23/30					-		
	EARTH ENVIROTECH SYSTEMS	Processed and Installing of Ellium Tradition Plant GTPLM	3003-24						-	
	SCHNEIDER ELECTRIC SYSTEMS HOLA (Dy Ash Bolton)	Supply, Gredier and Commissioning of DCS System for SRO in Dry Ash Remains of Sunspicion Debris.	2023-24							
	S V ENTERPRISES (Dig Ass Byslem)	Premius of Surgiciar Detroit Premius San Sare Pring House Area Stage 8	3003-34	E4			-			
	Sharel Phony Chestrody (III	Supply of BHES, make 500) MW Senerator Rotor for NOTO Release SUPPLY OF KINST	3009.04							
	Shared Freely Dischools Url	SUPPLY OF KHET- GEORPY, THRUST GEORPY OF BUG RE SUPPLY OF COMPLETE	303-34							
	Brand Heavy Dischools Ltd	SUPPLY OF COMPLETE SEP CAPITREDGE ASSEMBLY FOR STAGE 9 JAT WIPC	2023-24	12	2.					
	THERMAN LTD	PARKE FOR STAGE 3 VAM: MACHINES FOR MIPG PERMID	3609-04	5+					į.	- 14
	AMTECHINE.	Physoperant of Owine Opacity Analyses for 64530 lates (65049)	200-01							1.0
	PORBES IMPERIALL PVT LTD	Supply of VMS system for Men systems GFP AND 3CRSCRIB, FASS of Ritherni	2829-04						- 4	
	PRIVATE LTD (Dry Airh Spolen)	Stupply and trigitations of ECF Grane for ADPH Building Ritured Mages	2023-24	14						-
	Charat Pawry Electronic Ltd	Supply of IP Shell Scaling Ring Assembly for SHEL 500 MM Units at NIPC	303120	12					177	0.7
	Disease Properly Electricals Life	Prosumers of SHSL Capital Spores For MTRC Risked	2025-24						1	- 8
	WRITE	Procurement of imposer at 10000W sump, 90000W purps of blook 6, 7MO.	2025-24	- 1						33
	PATH CONNECT FAT LTD	PRODUREMENT OF 1.5. TON WINDOW 5.C	2025-29	1.7						- 1- 5
			Total (A)	1,24,63,98,236	1.51,76,378	81,72,838	8.48.17.346	33,38,726	8.78.87,067	1,928,3136
	is any his his fact of Weighted Ave	wage flats of toleroot on love	90	A STATE OF THE STA	14070.00			10000000	1.720.00	
	Vision Security Pv11.34	Augmentation of CCTV Nationals for Becoming -(p-8-c)a- Surveillemon at NETIG	2023-24 Year(M)	=					93	12
_			1000(0)				-			

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (व्यक्तिप्रवक्त) Add, General Manager (Completical) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.) Pietr

### Process of the Perfect   Ministry of Bullian   Ministry of Bul			thof Lisbella Flow		Face						
Part	Name o	the Company the Power Station	MIRC Links Blood Super Thornel So	many first - Ti	we are						
1											
Application of the property   Application	ar ne	Neme of the Plants	Name of the dock	Weston of Substay Medicapin	THE OLD ACCOUNT	26 se per antmune l	De Carrington Bir		daring the year	Okushanga daya tho year 2000 p	, Datolitica rul
Comparison   Com	(3)	- Al-	100	100	THE WATER			-		2000	
Processor   Conference   Conf				- 10	TANKS CAR			0.51,42 826 34	-by observat	Total	
		ebadoci	Ash Percentitudes of Superconstant for ASPHI. Stand	1		5.96,404.00					1300
Post			URTIN at			79,762.60					200000
175,000.00		EVSTEMS INDIA (DIV.AID)	Correlativement of force	3923-24		152000.00	-		_	-	76.50
Design   Section   Design	-	S V ENTERPRISES (Dry Asic System)	Tricke Part South Family Party, No. 10	3023-24		176357.6				-	2,62,65
Part   Part   Commence   Commen	-	hasa Henry Districts Lit	MW Chespenter Water Land	500th;pa	25	1,87,900,00			-		1,75,06
### CATTRONS   100	0	talal Heavy Electronis LSI	PERFORM THRUST	3003.04		111.050 to			-		20 848
Processes of the Section   1922   1	-	well Heavy Electrosis L20	ASSEMBLY FOR STAGE O	303.34		The State of the last			-		
SATTRICH ACT.	P	CRIMAL LTD	MACHINES FOR NIRC	2029-24	- 31	38,680.00			-		16.0
Compage May September   Compage	SA	ATRIDI ACIL	Opticity Analysis for 65500 (MN RNSTAR)	2029.24	-	m.712.00			-		10.000
DOT Clare for July 2015   DOT Clare for Ju	-		Miles Carbone DEP, AART	3023-3e	-	26264200	-		-		80,712
State   Petry Electrony Lid   State   O' Point Sealing   Filips Aspect   State   Sta	PH	AN INDUSTRIES INCOM. WATE LTD. (Day Arm System)	1007 Creme for ADAM	3925-2H		99.671.00	-		-	- '	30,36,612.0
### ### ### ### ### ### ### ### ### ##	li u	of Heavy Electrosph (18)	Staply of IP Short Sealing (Ring Assembly by Herth, No.)	2679-24	530	48,906.00			-		16.671.0
#### LTD   Find State   170 State   2003-34	ira	of Francy Geotocals Ltd	Preconstant at their County	3629-24		17.06.080.90	-			-	49.908,0
Mark Colonia   Mark	pers	Lm	Processors of treatment	2023-04		2000000	-	-	-	-	U-06-249.00
1.00   1.00	PAR	COWNERPYTUTO	PROCUREMENT OF THE	2023-2×	-					4	3,44,645.00
### 6/12/16   1.10/16/16   1.10/16/16   1.10/16/16   1.10/16/16   1.10/16/16   1.10/16/16   1.10/16/16   1.10/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16   1.10/16/16/16/16/16/16/16/16/16/16/16/16/16/			-			9,259:30					1,269.00
### Security Put (1):    Augmentation of Commy   February   Februa	etta etta	his No Foll of Westerd Ave	tions flower where the last	Telai (A)	17.96.31.16P	1,88,64,614	2,55,50,651	6.51,21,829	1.62.909	1.84.65.250	
1.15.20.400 1.15.2		Security for the	Augmentation of CCTV Network for Security windows	S23300 P	-	1.9029.455.00				-	15,21,08,209
\$15,00,000 (A1,00,000 (A1,00,000) (A1,00,000)	-		THE REAL PROPERTY.	Total (W)						2.1.3	15.28 (05.00
\$2.00 (A)					-	1,10,20,445		- 1	-		- 1670
\$25,00001 \$31,000 \$40,000 \$1,0				1.5	12.ML 31.107	2,64,94,000	4,38,99,651		1	-	115,232,455

परिमल पीयूष/PARIMAL PIYUSH
अगर गहायशन्यक (कारिन्यक)
Addi. General Manager (Commercial)
एन टी पी भी लिमिटेड/NTPC LIMITED
EOC. A-BA, Sector-24, Noida-201301 (U.P.)

Part-I Form-I Additional Form

# Summary of Gross Block reconciliation (2019-20)

Sr.			1		Amount in Rs
No.	Particular	Rihand-I	Rihand-II	Rihand-III	Total
1	Closing Gross Block as per Audited Balance Sheet 31.03.2020 (Ind-AS)	8,47,30,31,973	16,68,32,16,186	55,52,33,45,571	80,67,95,93,729
2	Opening Gross Block as per Audited Balance Sheet 01.04.2019 (Ind-AS)	7,62,35,89,943	16,41,85,05,564	54,49,73,21,325	78,53,94,16,832
3	Addition During the Year (1-2) (Ind-AS)	84,94,42,030	26,47,10,622	1,02,60,24,246	2,14,01,76,898
4	Ind-AS Adjustment	-32,92,82,886	-22,67,35,283	-7,30,49,003	-62,90,67,173
5	Addition During the Year (3+4) (IGAAP)	52,01,59,144	3,79,75,339	95,29,75,243	1,51,11,09,725

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (दाणिवियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

# Year wise Statement of Additional Capitalisation

	of the Petitioner	NTPC Limited						Amount in Rs.
Name o	of the Generating Station	Rihand Super Thermal Power	Station Stage-III					
	Commercial Operation	27-03-2014						
For Fin	ancial Year	2019-20						
						ACE (Actual)		
SI. No.	Head of Work /Equipment	Party Name	Accrual basis as per Note 2	Ind AS Adj.	Accrual Basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in
1	2	3	4	5	6	7		
A	Claims						8	9
A.1	Claimed/ Allowed Items							
A.1.1	Works Under original scope in main pl	lant packages						
A.1.1a	SG+TG				_			
The second second	SG Island and ESP	BHEL	78.88.219		78.88.219		20.00.00	
A 1.18.ii	TG Island	BHEL	97.82,483	- 12	97,82,483	6.26,777	78,88,219	
	Subtotal (A.1.1a)		1,76,70,702		1,76,70,702	6,26,777	91,55,706	-
A 1.1b	Coal Handling System	Larsen & Toubro Ltd	2,63,637		2,63,637	9,20,777	1,70,43,925	
A.1.1c	Switch gear Package	AB8 India Ltd/ GE India Industrial Pvt Ltd	10,15,302	8	10,15,302	10,15,302	2,63,637	-
A.1.1e	Road & Drainage	2,72	40,68,481		40.68.481		40.00 400	
A.1.1f	Fire Protection Package	Lloyd Insulations India Ltd	56,534	-	56.534	56.534	40,68,461	
A; 1.1g		OG Power And Industrial Solutions/ Regent Electro-Mech Pvt Ltd	1,54,750	9	1,54,750	-	1,54,750	89
A.1.1h	Main plant/Chimney/CW System/Offsite Civil works	Simplex Infrastructures Ltd	15,27,238	12	16,27,236	15,27,236		
A.1.1i	Tools & Plants	Various Parties	34,43,789	- 12	34,43,789	19,62,500	14.81,289	
A.1.1)	STATION C& Package	Schneider Electric	2,098	- 12	2,098	19/02,300	2,098	-
A.1.1k	Temp. construction & enabling works	Logiciadder Technologies Pvt Ltd	26,165		26,165	-	2,098	
A.1.1m	ELECTRICAL EQUIPMENTS (Cables Cable facilities & Grounding)	Petron Engineering	-1,07,898		-1,07,898	48,439	-1.56,337	
A.1.10	Central Repair Facility (CRF) Building - Civil Works	Lanco Infratech Ltd	2,57,307	1	2,57,307	-	2,57,307	
	Subtotal (A.1.1)		2,83,78,103	-	2,83,78,103	52,36,789	100000000	
A.1.2	Township: Quarters and other facilities	Various Parties	68,91,479		68,91,479	15,37,318	2,31,41,314 53,54,161	•
A.1.3	Ash Water Recirculation	Bridge & Roof Company India Ltd	55,80,400		55,80,400	45,64,649	10,15,751	

परिमल पीयूष/PARIMAL PIYUSH अपरम्महाप्रबन्धक (वाणिज्यिक) Addi, General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

			1,02,60,24,246	-7,30,49,003	95,29,75,243	-76,25,930	96,06,01,173	1.
	Grand Total (A+B)			-7,19,95,531	91,10,43,557	-1,29,36,564	92,39,80,121	
	Total Exclusion (B)		98,30,39,088	740.00.00.1			-	1,0
.6	Reversal of Liability		-1,43,74,882		-1,43,74,882	-1,43,74,882		
		The state of the s	44,01,700,00		44,37,760.00		44,37,760.00	
5.2	Plant and machinery	From Vindhyachal	61,895.00 44,37,760.00		61,895.00		61,895.00	
		From Tapovan Vishnugad	64,990.00		64,990.00		64,990.00	
	1	From Koldam	50,754.00		50,754.00		50,754.00	
	0.454505-55	From Farakka	53,425.00		53,425.00		53,425.00	
.5.1	EDP, WP machines & SATCOM equipment	From Rihand (Interunit transfer) From Unchahar	60,000.00	- 27	60,000.00		60,000.00	
	Eng sum	2012/00/00/00/00/00/00/00/00/00/00/00/00/00	TOTAL PROPERTY OF THE PROPERTY	-21,888.00	-11,40,616.00		-11,40,616.00	
		To Vindhyachal	-11,18,728.00	-1,21,008.00	-5,93,007.00		-5,93,007.00	
		To CC-EOC	31,38,097 -4,71,999.00	-1,42,896	29,95,201		29,95,201	-
B.5	Inter Unit Transfer		24 20 000					
3.4	Loan ERV		85,79,24,550		85,79,24,550	14,38,318	85,64,86,232	
. 90	A		1,10,02,033	-7,10,02,035	-			
	Subtotal(B.3)		7,18,52,635	-7,18,52,635 -7,18,52,635				
	Unit Overhauling		7,18,52,635	-7,18,52,635				
B.3	IndAS Adjustment						1377,1000	_
3.2	Decap of MBOA- Not Part of Capital Cost		-2,91,063		-2,91,063	-	-2.91,063	
3.1.	Capitalization of Spares	Various Parties	6.47,89,751.30		6,47,89,751		6,47,89,751	
3	Exclusions							
			4,29,85,158	-10,53,472	4,19,31,686	53,10,634	3,66,21,051	
	TOTAL Claim (A)				-1,23,87,973		-1,23,87,973	
A.4	Decap of MBOA: Part of Capital Cost		-1,23,87,973	10,00,412	500000000000000000000000000000000000000		-56,78,524	-
A.3	Decap of Spares (Part of Capital Cost)		-46,25,052	-10.53.472	1,26,41,217 -56,78,524	10,49,054	1,15,92,164	
A.2	Capitalization of MBOAs		1,26,41,217		4.00.44.049			
3500			4,73,56,965	-	4,73,56,965	42,61,581	4,30,95,385	- 0
	Subtotal (A.1)		-75,88,192	-	-75,88,192	-75,88,192		
A.1.5 A.1.6	Sewage Treatment Plant Package ERV	Hydrotech Paryavaran (India) Pvt. Ltd/ Enviro Care Engg/ Chauhan Brothers	1,40,95,176		1,40,95,176	5,11,017	1,35,84,159	

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रधन्द्रक (दानिविक्का) Addl. General Manager (Commoduli) एन टी यी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Norda-201301 (U.P.)

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Part-I Form-II Additional Form

Summary of Gross Block reconciliation (2020-21)

Amount in Rs

Sr. No.	Particular	Rihand-I	Rihand-II	Rihand-III	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2021 (Ind-AS)	8,89,78,85,445.95	16,97,51,52,367.09	56,17,18,17,079.44	82,04,48,54,892.48
2	Opening Gross Block as per Audited Balance Sheet 01.04,2020 (Ind-AS)	8,47,61,16,703.15	16,68,01,31,454.48	55,52,33,45,570.75	80,67,95,93,728.38
3	Addition During the Year (1-2) (Ind-AS)	42,17,68,743	29,50,20,913	64,84,71,509	1,36,52,61,164.10
4	Ind-AS Adjustment	-28,60,12,968	-19,85,11,841	-6,04,98,238	54,50,23,047,08
5	Addition During the Year (3+4) (IGAAP)	13,57,55,774.93	9,65,09,071.55	58,79,73,270.54	82,02,38,117.02

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (वाणिक्सिक) Addi. General Manager (Commercial) एन टी भी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

			Year wise Statement of A	Iditional Capitalis of			Annex- HA	(Additional form
lame of t	he Petitioner	to the same of the		санова Сарпанано	NA .			
lame of t	he Generating Station	NTPC Limited	CATALON - VOTA					Amount in Rs
late of Co	ommercial Operation	Rihand Super Thermal Power	Station Stage-II					0.1100.00
or Finan	cial Year	27-03-2014						
-		2020-21						
					ACE Clair	ned		
\$1. No.	Head of Work /Equipment	Party Name	Accrual basis as per Note 2	Ind AS Adj.	Accrual Basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis **	IDC included i
A	Claims	3	4	5	6	7		
						-		9
A.1	Claimed/ Allowed Items							
A.1.1	Works Under original scope in main plant packages							
A.T.18	Road & Dramage	Various Parties	7.00					
A.1.1b	SWITCHYARD Package	Sharat Heavy Electricals Lid	1,70,063		1,70,063		1,70,063	
A.1.1c	Fire Protection Package	Ubyd Insulations India Ltd	40,30,746	-	40,30,746	3,12,346	37,18,400	-
A.1.1d	Transformers Package	CG Power And Industrial	32,82,521	-	32,82,521		32,82,521	-
A.1.1e		Balutions	16,52,000		16,52,000	16.31.000		
A.1.1f	Main plant/Chimney/CW System/Offsite Civil works Temp. construction & enabling works	Simplex infrastructures Ltd.	1,12,54,147		1,12,54,147	- 1807/2004	21,000	1.5
17.	ELECTRICAL EQUIPMENTS (Cables, Cable facilities &	Various Parties	7.629	-	7,629	93,14,041	19,40,106	- 10
A.1.1g	(urpunong)	Petron Engineering	1,60,202.53	2-0	1,60,203	1,60,202.53	7,629	
A.1.1h	PT Ptent Package	Monally Bharat Engy. Company	3,19,672			15-56-60		
A.I.II	Central Repair Facility (CRF) Building - Civil Works	Transition of the Control of the Con		1,10	3,19,672		3,19,672	
	Subtotal (A.1.1)	Lanco Infralech Eld	34,13,618.54		34,13,619	34,13,619		
-	The second of th		2,42,90,600	76	2,42,90,600	1,48,31,208	94,59,392	
A.1.2	Township: Quariers and other facilities	Various Parties	1 22 22 22			3,500 1,200	94,39,392	-
	1002002-007-0070000000000000000000000000	V-0000	1,20,02,468	-	1,20,02,468	21,94,001	98,08,467	
A13	Ash Water Recirculation System	Bridge & Roof Company India	1,62,48,703.62		1,62,49,704		30,00,40)	-
614	1000				1,44,40,704		1,52,48,704	-17
A.1.4	MGR		2,00,00,000					
E (15)			2,00,00,000	-	2,00,00,000		2,00,00,000	
A.1.5	Sawage Treatment Plant	Hydrotech Parygveren (India) Pvt. Ltd	19,04,108.77		19,04,109	14,14,366.96	400.740	
A.1.6	Ash Related Works					17117,000,00	4,89,742	
A.1.6s	Wagons' Bogle for transportation of Ash through Rail							
1.18ai								
-	Bogey Tank For Alumina Powder (BTAP) Wagon for Ash	The second secon	50,61,70,414,59	135	50,61,70,550	4,38,16,218	46,23,54,332	
	Bogie Brake Van Type-BCVM	Texmaco Rail & Engineering Ltd	78.94.651.00		70.00.00		-	
4.1.6b	Ash Bricks Plant	Ram Bichar	100000000000000000000000000000000000000		78,94,651		78,94,651	
A.1.60	3rd Raising of Central Ash Dyke Lagoon-II	National Prestige Construction	3,31,409.89		3,31,410		3,31,410	
-		Co.	10,53,32,816	1,40,753	10,51,02,063	32,77,739		
	Subtotal (A.1.5)		61,97,29,291	1,40,618	61.95.88.874		10,19,14,324	
A.1.7	Package ERV		12.15.00.00.00.0	1,90,010	61,95,88,674	4,70,83,957	57,24,94,717	- 7
71,412	r advage Ercy		-32,42,061		-32,42,061	95.05.00	20.000	
A.1.8	Online-Analyser for CEMS for CO, CO2, Sex, Nox	E-d-1			-32/42/101	-32,42,061	- +	
	50, CO2, S08, NSX	Forbes Marshall Pvt, Ltd.	79,20,160.00		79,20,160		75.05.15	
	Subtotal(A.1)				10,000,100		79,20,160	- 1
	Section(A.1)		69,84,53,271	-1,40,618	69.87,12,653	6,22,81,472	63,64,21,181	
A2 .	Captalization of MBCAs		214 62 (12 52			- January Contract	03,04,21,181	- F
1.0			2,15,96,416.99		2,15,96,417	40,78,520	1,75,17,898	
A.3	Decap of Spares (Part of Capital Cost)						141.05, 17.,01960	

Addi. General Manager (attitizatar) (따 한 강 라 타자 (라마는로 (attitizatar) (다 간 강 라 타라는로 / NTPC LIMITED

_	Total Exclusion (B)		-6,38,11,923	-	-6,38,11,923	-6,38,11,923		
B.6	Reversal of Lishiby		8 38 11 000				1,11,12,007.07	
		From Badarpur	1,44,12,597.67		1,44,12,897,67		1,44,12,897.67	
B.5.2		To Vindhyachal	-50,806.00		-60,805.00		1,43,62,093	_
B.5.1	EDP, WP machines & SATCOM equipment		1,43,62,093		1,43,62,093		7700000	
8.5	Inter Unit Transfer		20,50,74,233	-	-26,56,44,335		-26,56,44,335	
B.4	Loan ERV		-26,56,44,335					
			3,07,16,598	-3,07,16,598	- 2	14		
	Subtotal (B.1)		4,70,52,777	4,70,52,777				
2	De-Cap of Overhauling Assets		7,77,69,375	-7,77,69,375		-		
1	Unit Overhauling			E-10000000				
8.3	IndAS Adjustment				-2,96,16,266	1	-2.95.16,266	
B.2	Decap of Spares: Not-Part of Capital Cost		-2,96,16,266.47		2.00 +0.00*			
		Tanada Fallaco	32,61,59,920.04	16,045,23	32,81,75,965	26,79,759.18	32,35,96,206	
B.1	Capitalization of Spares	Various Parties	22.54 50 500	40.000				
	Essinatoria							
B	Exclusions		05,05,05,425	-2,97,97,685	69,65,07,738	5,63,69,993	54,01,37,745	
	Total Claim (A		63,63,05,423	2 62 52 525				
			-13,10,858	-21,888	-13,32,746	+11	-13,32,745	

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (दाणिडियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

= Part-I Form-III Additional Form

Summa	ry of Gross Block reconciliation (20	021-22)			
Sr. No.	Particular	ST-I	ST-II	ST-III	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2022 (Ind-AS)	6,87,05,42,295	40,46,95,42,664	1,68,00,60,208	49,02,01,45,167
2	Opening Gross Block as per Audited Balance Sheet 01.04.2021 (Ind-AS)	6,62,49,52,683	40,54,66,76,059	1,12,57,37,246	48,29,73,65,988
3	Addition During the Year (1-2) (Ind-AS)	24,55,89,612	7,71,33,395	55,43,22,962	72,27,79,179
4	Ind-AS Adjustment	2,65,97,002	31,67,53,445	48,78,69,765	83,12,20,212
5	Addition During the Year (3+4) (IGAAP)	27,21,86,615	23,96,20,050	1,04,21,92,727	1,55,39,99,391

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (६ फिडिस्ट्रा) Addl. General Manager (Co me recall) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

(Petitioner)

		Vegraties Statement of	Additional Capitalisation				Annex-IIIA	PAR' (Additional Fore
1 = 20	the property of the second sec	Tear wise distances of	Additional Capitalisation	after COD				
	he Petitioner	NTPC Limited						Amount in R
	he Generating Station	Rihand Super Thermal P	Count Station Stane-III			4		
tation Co	OD 00	27-03-2014	The state of the s					
or Finan	cial Year	2021-22						
		4.00			ACE Clair	nod		
SI. No.	Head of Work /Equipment	Party Name	Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per	Un-discharged Liability included in	Cash basis	IDC included
-1	2	3	4		1 1000	col. 3	and the second	col. 3
A	Claims		1		6	7	8	9
A.1	Claimed Items							
		200						
A.1.1	Works Under original scope in main plant pac	kages						
A.1.1a	SG+TG	2005						
A.1.1.ii	SG Island and ESP	BHEL New Dehi	14,04,658.68		14,04,659	4,13,340.09	9,91,319	-
P. I. I. I.	TG Island	BHEL Now Dathi	2,36,09,324.38		2,36,09,324	3,80,408.59	2,32,28,916	
A.1.1b	Subtotal (A.1.1a) Coal Handling Plant		2,50,13,983.04		2,50,13,983.04	7,93,748.68	2,42,20,234,36	
A.1.10	SWITCHYARD Package		91,68,416.31		- 91,68,416		91,68,416	-
A.1.1d	Road & Drainage	BHEL New Dehi	32,09,891.00	0.4	32,09,691	8,86,988.00	23,22,703	
	Post & Drienige	44.6	3,69,117.82		3,69,118		3,69,118	
A.1.1e	Transformers Package	CG Power And Industrial Solutions	20,48,177.00	994	20,48,177	102	20,48,177	•
A:1:1f	Temp. construction & enabling works		2,83,137,27		2,83,137		2.83,137	
A.1.1g	Air Condition & Ventilation System		6,16,037		6,16,037		The second secon	
	Subtotal (A.1.1)		2,23,71,727		2,23,71,727	16,80,737	6,16,037 2,06,90,990	- +
A.1.2	7- 1- 2	CONTRACTOR OF THE			siest des	10,00,737	2,09,90,990	,
n.i.e	Township: Quarters and other facilities	Various Parties	1,27,07,260.59		1,27,07,261	14,60,858,29	1.12.46.402	
A.1.3	Ash Related works							
A 1.3a	Transportation of Ash through Rail							
0.1000	Bogey Tank For Alumina Powder (BTAP) Wagon				(C			-
A.1.3a.i	for Ash	Texmaco Rail &	26,29,99,245		26,29,99,246	0.00.46.600		
A.1.3a.ii	BOGIE BRAKE VAN TYPE-BVCM	Engineering Ltd			20,29,99,240	2,09,15,500	24,20,83,746	
A.1.3b	Ash Bricks Plant	AND RESERVED IN	41,58,471		41,58,471		41,58,471	
127 - 300		Markey of Paragraphy	1,518.40		1,518	-	1,518	
A.1.3c	3rd Raising of Central Ash Dyke Lagoon-II	National Prestige Construction Co	20,50,363	2.7	20,50,363		723417.0350	
	Subtotal (A.1.3)	Construction Co	1 1000000000000000000000000000000000000				20,50,363	
	outotal pc.1.2)		26,92,09,598		26,92,09,598	2,09,15,500	24,82,94,098	V-
A.1.4	Package ERV		10,54,292.68		10.54.293	40.54.000		
		and the second second	10101,612.00		10,09,293	10.54,293		-
A.1.5	AGC Implementation	ABB India Limited	62,37,466.00 -	37,685.41	61,99,781	42.71,079.00	19,28,702	
		CIETA MINISTER			21,00,101	42,11,010.00	19,20,702	
_	Subtotal (A.1)		31,15,80,344.32 -	37,685.41	31,15,42,658.91	2,93,82,466,65	28,21,60,192.26	
A.2	Control of Control					2,25,02,100,00	20,21,00,192.20	
N.E	Capitalization of MBOAs	Various Parties	1,68,89,441.17	42,927.08	1,69,32,368	54,91,984,54	1,14,40,384	
A.3	Description of MPOA - Part - LC - Part - C						1,14,40,004	
~-	Decap of MBOAs: Part of Capital Cost		- 25,17,833.23 -	4,32,912,27	- 29,50,748		29,50,746	
A4	Decen of Source: Boot of Country							
	Decap of Spares: Part of Capital		(1,25,00,515.01)	(42,64,916.37)	1,67,65,431		1,67,65,431	
	7000							
	Total claim (A)		31,34,51,437 -	46,92,587	30,87,58,850	3,48,74,451	27,38,84,399	
В	Exclusions							

1	Combustion Modification Package	0						
1.1	Combustion Modification Package-Unit#5	Bharat Heavy Electricals Limited	7,59,49,419.39	V	7,59,49,419		7,59,49,419	
1.2	Combustion Modification Package-Unit#6	Sharat Heavy Electricals Limited	7,59,49,416,19		7,59,49,418		7,59,49,418	
	Subtotal (B.1)		15,18,98,836		15,18,98,836		15,18,98,836	_
B.2	Loan ERV		16,04,72,812,72		16,04,72,813	-	16,04,72,813	
8.3	Ind AS Adjustment		all Milescenters					
1	Overhauling		15,46,62,289.30	15.46.62.289.30		-		
2	Decap of Overhauling Assets		9,35,77,347.88	9,35,77,347.88				-
	Subtotal (B.3)		6,10,84,941.42	- 6,10,84,941.42	- 2			
B.4	Capitalization of Capital Spares	Various Parties	8,22,18,834	17,917	8.22,36,751	1.60,32,830	6,62,03,921	
B.5	Decap of MBOAs (Not Part of Capital Cost)		6,66,097,00		8,86,097			
1110	The state of the s		0,00,007,00	1 1	0,00,007	-	- 6,65,097	-
B.6	Decap of Spares: Not Part of Capital Cost		1,32,76,224.04	+ +	1,32,78,224		- 1,32,76,224	
8.7	Inter Unit Transfer	1.	19,21,70,785.15	28.666.95 -	19,21,99,452.10		- 19,21,99,452.10	
		To Unchahar	-3.71.626.26	-19,736,74 -	3.91.363.00	- 14	- 3.91.363.00	
8.7.1	Plant & Machinery	TO Ramagundam	-14,38,91,097,73		14,38,91,097.73		- 14,38.91.097.73	
200	o toni a macinicity	To Vindhyacahai	-3,49,118.44		3,49,118.44		- 3,49,118.44	
		To Jhajar	-4,66.01,115.87		4.66.01.115.87		- 4.66.01,115.87	
8.7.2	Other Office Equipments	TO Singrauti	-9,06,029.60		9,08,029.60		- 9.06,029.60	
B.7.3	EDP, WP machines & SATCOM equipment	To Auraiya	-51,797,25	-8,930.21 -	60,727.46		- 60,727.48	
8.8	Reversal of Liabilities	Various Parties	(86,90,792.66)	6,64,919 -	93,55,712 -	93,55,712	-	
	Total Exclusion Claimed (B)		24,08,71,525	6,17,60,610	17,91,10,914	66,77,118	17.24.33,797	
	Grand Total (A+B)	7 14	56,43,22,962	6,64,53,197	48.78.69.765	4,15,51,569	44,63,18,196	

(Pétitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रवन्धक (क गाविकाक) Addl. General Manager (Communical) एम दी दी सी लिम्बिड / NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

# Part-I Form-IV Additional Form

Summa	ary of Gross Block reconciliation	(2022-23)			
Sr. No.	Particular	ST-I	ST-II	ST-III	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2022 (Ind-AS)	9,27,49,01,585	40,74,70,40,617	2,24,22,68,048	52,26,42,10,250
2	Opening Gross Block as per Audited Balance Sheet 01.04.2021 (Ind-AS)	6,87,28,57,941	40,46,94,54,164	1,67,78,33,062	49,02,01,45,167
3	Addition During the Year (1-2) (Ind-AS)	2,40,20,43,644	27,75,86,453	56,44,34,986	3,24,40,65,083
4	Ind-AS Adjustment	- 11,20,58,291	9,25,55,750	16,28,96,642 -	18,23,99,183
5	Addition During the Year (3+4) (IGAAP)	2,28,99,85,354	37,01,42,203	40,15,38,344	3,06,16,65,900

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिडिसक) Addi. General Manager (Commercial) एन टी भी शी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

		Year wise Statement of Additional Car	pitalisation after COD				Annex	- IVA (Additional Form
15 45 A 4 4							-	Amount in Ro
Order Communication Communicat	he Patitioner	NTPC Ltd	and the same of					PHOTOGRAS HI PG
	he Generating Station	Rihand Super Thermal Power Station	Stage-III					-
tation C		27.03.2014	57.0					
or e man	ial Year	2022-23				Markey		
	HISPANEOUS HAND WAS SHEET.	Table sales			ACE	Claimed		
St. No.	Head of Work /Equipment	Party Name	Accrual basis as per Note-2 of BS	IND AS Adj	Accruel basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in cot.
- 1 A	Claims 2	3	- 4	5	6	7	1	9
A.1	Claimed Items							
A.1.1	Works Under original scope in main plant packages							
A.1.1a	Station C& Package		1			The District of		
A.1.1b	Central Repair Facility (CRF) Building	Schneider Electric Systems	13.13,057.00	-	13,13,057	+ 9,476.88	13,22,534	
A.I.Ic	Terrip, construction & enabling works		36,05,974.22		36,05,974.22	35,86,853,00	17,121.22	
A.1.1d	Switchyard Package	Bharat Heavy Electricals Ltd	4,69,426.00	-	4,69,426.00	- 10 mm - 6 m	4,69,426.00	6
A.1.10	Electrical Equipments (Cables, Cable facilities & Grounding)	KEI Industries Ltd	7,62,942.00	1-	7,62,942.00		7,62,942.00	
37.77	Subtotal (A.1.1)		6,62,110.47		6,62,110.47	-	6,62,110.47	
25.74-520	Standar (A.1.1)		66,13,509.69		68,13,509.69	35,79,376.14	32,34,133.55	
A12	Township: Quarters and other tacases		91.01.338.17		NA		-	
A.1.4	Ash Related works		6,96,921,66	-	91,01,338,17	52,08,244.17	38,93,094,00	
A15	Package ERV		61,72,638		91,72,638	61 30 104	6,96,922	
	Subtotal (A.1)		2.27,84,407.77		2,27,84,407,77	61,72,636 1,49,60,258.56	70 54 440 64	-
	201000000000000000000000000000000000000	Constitution and the second			A-A-7-100-1007-1-1	1,40,00,200.00	78,24,149,21	
A.Z	Capitalization of MBONs	Various Parties	6,48,05,885,86	2.31,935.81	6,50,37,821.67	27,28,448.08	6,13.09,373.59	
A.3	Decap of MBCAs: Part of Capital Cost		- 83,71,417.50	-1.35,187.50	- 85,06,605	27.207440.00	65.06.605	
A.4	Decap of Spares: Part of Capital Cost		-3,65,49,227,15	-2,84,42,071,70			6,49,91,298.85	-
						120000	310015-3850-00	
	Total claim (A)		4,24,69,649	- 2,83,45,323	1,43,24,326	1,86,88,707	43,64,381	
В	Exclusions			A TENNANDOC			2000 2000	
8.1	flams not claimed							
1	Combustion Modification Package							
1.1	Combustion Modification Package-Unit#5	Bharat Heavy Electricals Limited	V en mer su		VXUWSSE			
1.2	Combustion Medification Package-Unit#6	Bharat Heavy Electrica's Limited	7,52,885,31 7,52,885,01		7,52,885	7,52,885		
	Subtotal (B.1)	DATE OF THE PERSON NAMED AND POST OF THE PERS	15,05,770		7,52,885	7,52,885	- 1	
1-11			19,995110		16,06,770	15,05,770	-	-
B.2	Capitalization of Capital Spares	Various Parties	12,36,44,380,36		12,36,44,380	10.85.043	12,25,59,318	
8.3	Loan ERV		26,62,41,466		26,82,41,466	10,011013	25,82,41,496	-
B.4	Decap of MBOAs, Not Part of Capital Cost		- 28,47,505		- 28,47,505		28,47,505	-
8.5	Ind AS Adjustment Overhealing						20,41,000	
2	Decap, of Overhauling Assets		17,40,05,250,73	17,40,05,290.73	+1		-	
-			- 4,12,71,349.62	4,12,71,349.62	+			
	Subtotal (B.5)		13,27,33,911.11	- 13,27,33,911.11	-	-		
B.6	Inter Unit Transfer				-			
B.6.1	EDP, WP machines & SATCOM equipment	WR-II feapur		149,27	149.27		149.27	
D.7	Reversal of Liability	CONTRACTOR OF THE PARTY OF THE	-15.12.686.45	149.27	149.27	******	149,27	-
			-10,12,000,45	-18.17,556.74	-33,30,243,19	-33,30,243.19	0.00	
	Total Exclusion Claimed (B)		52,17,65,336	13,45,51,319	38,72,14,018	7,39,410	38,79,53,428	

(Petitioner)

परिमल पीयुव/PARIMAL PIYUSH अपर महाप्रवासक (वार्षाक्रिकान) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड /NTPC LIMITED EOC, A-8A, Sector-24, Noithe 201301 (U.P.)

Summa	ry of Gross Block reconciliation	n (2023-24)	*		*
Sr. No.	Particular	ST-I	ST-II	ST-III	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2024 (Ind-AS)	10,89,59,97,939	41,31,46,99,881	3,55,59,62,788	55,76,66,60,609
2	Opening Gross Block as per Audited Balance Sheet 01.04.2023 (Ind-AS)	9,27,49,01,585	40,74,70,40,617	2,24,22,68,048	52,26,42,10,250
3	Addition During the Year (1-2) (Ind-AS)	1,62,10,96,354	56,76,59,264	1,31,36,94,740	3,50,24,50,359
4	Ind-AS Adjustment	- 9,89,09,046	37,08,74,154 -	6,46,73,679 -	53,44,56,879
5	Addition During the Year (3+4) (IGAAP)	1,52,21,87,309	19,67,85,110	1,24,90,21,061	2,96,79,93,479

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिविवक) Addl. General Manager (Commercial) एन टी पी सी तिमिटेड/NTPC LIMITED EOC, A-BA, Sector-24, Noida-201301 (U.P.)

अपर महाप्रवाधक (वार्गिरिवक्) अपर महाप्रवाधक (वार्गिरिवक्) Add. General Manager (Commercial) टी सी सी स्थिदिङ /NTPC । Marten	C. A-8A, Sector-24, Noida-201301 (U.P.)
E	₩

		Year wise Statement of Additional Capitalisa	rtion after COD					
			- Contraction of the Contraction					Amount in Rs.
me of th	e Petitioner	NTPC LIM						
me of th	e Generating Station	Rihand Super Thennal Power Station Stage-	EL .					
ation CC	D	27.03.2014						
r Financ	al Year	2023-24						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					ACE CIW	med		
81. No.	Head of Work (Equipment	Party Name	Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in gol, 3	Cash basis	IDC included cel. 3
1	2	3	4	- 5	6	7		9
A	Claims							_
A.1	Claimed Items							
20.1	Vision Ca (MIII)2							
A.1.1	Works Under original scope in main plant packages							
615-	Switchyard Package	Bharat Heavy Electricals Ltd.	25.86.637.66		25,96,537,55	4,24,857.00	21,61,880,55	
A.1.1b	Road & Dranage	Viay Construction	9,13,668,44		9,13,565.44	-	9,13,968.44	
A.1.10	Temp. construction & enabling works	Ideal Associates	12,221.11		12,221.11	-	12,221.11	
	Subtotal (A.1.1)		35,12,427.10		35,12,427.10	4,24,857,00	30,87,570.10	4
A12	Township & Colorly		13,15,475.90		13,15,475.90		13,15,475,90	
Pr-Ed.	Townsip & Coony		10,10,71,000					
Λ.1.3	Ash Related Works			-		60.7h 107.67	AR AR 14 JAN 14	
A.1.3a	Dry Ash Extraction System, Stage-III	Macamber Beekay Pvt Ltd	67,09,20,529 44,575.49		57,09,28,529.00 44,575	83,72,407.87	66,25,48,121.13 44,575.49	
A.1.3b	3rd Raising of Central Ash Dyke Lagoon-II Subtotal (A.1.3)	National Presige Construction Co	67.09.65.104.49		57.09.65.104.49	83,72,407.87	66,25,92,595.62	
ordre.	Seaton St. (a)			*		34030000		
A.1.5	Upgradation of HMI Package		2.55.01.00.00				2000000	
A1.5a	Upgradation Of HMI System	Bharat Heavy Electricals Limited	3,55,94,334.20 (82,13,859.98)	3,87,012.53	3,59,81,346,73 - 2,04,63,139,50		3.59,81,346,73 - 2.04,63,139,50	
PL 1.208	Decap on Upgradation of HMI Subtotal (A.1.5)		2,73,80,474.22	(1,18,62,266.99)	1,56,18,207.23		1,55,18,207.23	
	TERRO VIVE DATO A COV	Value and the second second						
A.1.6	Safety & Security of Plant	Vicom Security Pvt Ltd.	4,21,43,846.00		4,21,43,848.00	1,16,29,455.00	3,05,14,393.00	4
A1.7	Package ERV		- 2.38.59.851.46	-	- 2.38.59.851.46	2,38,59,851,46		
10.1.1	1 school con							
	Subtotal (A.1)		72,14,57,478.25	- 1,18,62,266.59	70,95,95,211.26	- 34,33,131.69	71,30,28,342.85	
A.Z	Capitalization of MBOAs	Various Parties	1,30,90,895,98	5,183.31	1.30.96.079.25	87,571,00	1,30,08,508.25	
PLE.	Copromosion of Moures	VO. NO. P. DIEGO	1,30,30,310,30	5,100.01	1,00,00,010.2	07.011.00		
A.3	Decap of MBOAs: Part of Capital Cost		(32.09.305.27)	(11,81,943.46)	- 43,91,246.73		- 43,91,248.73	
2.4	Decap of Spares: Part of Capital Cost		(5.59.90.634.61)	(3,52,95,016,36)	9,22,85,650.9		- 9,22,65,680.9	
0.6	Decig of spares. Part of Capital Cost		(0,00,00,00,00)	(acar occard any	- 524,000,000		the armore	
	Total claim (A		67,53,48,434	4,93,34,044	62,60,14,391	33,45,561	62,93,59,951	
_						-		-
8	Exclusions					-		1
B.1	Capitalization of Capital Spares	Various Parties	63,86,27,167.88	+/	63,86,27,167.8	68,79,777.70	63,26,47,390.1	8
B.2	Decap of MBOAs: Not Part of Capital Cost		(15,00,726.28)		- 15,00,726.2		- 15,00,726.20	4
8.1	Decap of Spares: Not Part of Capital Cost		(1,37,76,771.41)		- 1,37,76,771.4		- 1,37,76,771.4	1 -
0.4	Ind AS Adjustment		2-034604600000	flaction converse.				
1	Overheading Control for Asset		23.72,27,128.30 (22.18,87,492.53)	(23,72,27,128,30) 22,18,87,492,53				1 -
- 2	Decap of Overhauling Assets		1,53,38,635,77	(1,53,39,635,77)			-	1
	Subtotal (R.4		1,03,398,033,77					
B.5	Subtotal (B.4 Powersal of Liability	7	-3.43.000	6	-		- 1	

Total Exclusion Glaimed (B)	63,83,46,396 -	1,53,39,636	62,30,06,670	56,36,778	61,73,69,892	+
(let terrew Person)						
Grand Total (A+B)	1,31,36,94,740 -	6,46,73,679	1,24,90,21,061	22,91,217	1,24,67,29,844	

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिण्यक) Addl. General Manager (Commercial) एन टी पी सी लिगिटेड /NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

	Summary of	f issue involved i	n the petition			PAR			
Name	of the Company :	NTPC Limited	-			FORM			
Vame	of the Power Station :	Rihand Super Thermal Power Station Stage-III							
1	Petitioner:	NTPC Limited							
2	Subject	Truing-up of Ta	elff for 2040 O	I mareland					
		irraing up or ra	1111 101 2013-2	period					
3	Prayer: i) Approve revised tariff of Rihan Tariff Regulations 2019, ii) Approve supplementary tariff (installation of Emission Control Siii) Allow the Petitioner to recover iv) Allow the reimbursement of w station, as claimed by the Petitioner to recover its account to the station.	for Rihand Super T System for controlling the additional O& ater charges, capit ther.	Thermal Power ing Nox emission M cost for ash tal spares and	Station Stage ons. transportation security expe	e-III (2x500M n. nses for the i	W) on			
4	<ul> <li>v) Pass any other order as it may deem fit in the circumstances mentioned above.</li> </ul>								
4	Respondents								
	Name of Respondents								
	Uttar Pradesh Power Corp. Ltd. (UPPCL)								
	Rajasthan Urja Vikas Nigam Limited (RUVNL)								
	Tata Power Delhi Distribution Limited								
	BSES Rajdhani Power Limited.								
	5. BSES Yamuna Power Limited,								
	<ol><li>Haryana Power Purchase Cen</li></ol>	tre							
	7. Haryana Power Purchase Cent	tre							
	8. Himachal Pradesh State Electr								
	Power Development Department								
	10. Electricity Department of Char								
	11. Uttarakhand Power Corporation Limited,								
		on canada,							
5	Project Scope			•					
	Capital Cost as on 01.04.2024 (Rs. Lakh)		57	0571.38					
	Date of Station COD		27-	03-2014					
	Claim (Rs Lakh)	2019-20	2020-21	2021-22	2022-23	2023-24			
	AFC	107950.57	THE RESERVE AND ADDRESS OF THE PARTY OF THE	107145.81	109171.99	116822.56			
	Capital Cost	551814.37	555802.04	The second secon	563297.94	567104.03			
	Initial spare			N/A	000237.34	307 104.03			
	NAPAF (Gen)		3	85%					
	Any Specific								
					(	7			
					100	1			

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रधन्यक (काणिज्यक) Addi, General Manager (Gommercial) एन टी थी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

# SUPPLEMENTARY TARIFF FILING FORMS (THERMAL)

# FOR DETERMINATION OF SUPPLEMENTARY TARIFF OF

Rihand Super Thermal Power Station Stage-III

(For ECS- DeNOx System for 2019-24 Period)

PART-I

APPENDIX-IA



परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिजियक) Addi. General Manager (Commercial) एन दी यी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

# Checklist of Main Tariff Forms and other information for supplementary tariff filling for Thermal Stations

	The state of the s	
Form No.	Title of Tariff Filing Forms (Thermal)	- W. V.
FORM- 1	Summary of Supplementary Tariff	Tick
FORM -1 (I)	Statement showing claimed capital cost	ü
FORM -1 (II)	Statement showing Return on Equity	0
FORM-2	Plant Characteristics	ű
FORM-3	Normative parameters considered for tanff computations	0
FORM-3A	Statement showing O&M Expenses	Ü
FORM-3B**	Statement of Special Allowance	ü
FORM- 4	Details of Foreign loans	NA
FORM- 4A	Details of Foreign Equity	NA.
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	NA.
FORM-6	Financial Package upto COD	NA.
FORM-7	Details of Project Specific Loans	NA NA
FORM-8	Details of Allocation of corporate loans to various projects	NA.
FORM-9A	Summary of Statement of Additional Capitalisation claimed during the period	NA ü
FORM-9	Statement of Additional Capitalisation after COD	
FORM- 10	Financing of Additional Capitalisation	G
FORM- 11	Calculation of Depreciation on original project cost	NA
ORM- 12	Statement of Depreciation	ü
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	0
ORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	ú
ORM- 15	Details of Fuel for Computation of Energy Charges	NA
ORM- Oi	Computation of Supplementary Energy Charges	NA
ORM- 16	Details of Reagent for Computation of Energy Charge Rate	NA.
ORM-17	Details of Capital Spares	NA.
ORM- 18	Non-Tariff Income	NA
ORM-19	Details of Water Charges	NA
ORM-20	Details of Statutory Charges	NA
	Details of Globality Charges	NA.

#### PART-I

# List of Supporting Forms / documents for supplementary tariff filing for Thermal Stations

Title of Tariff Filing Forms (Thermal)	1
Abstract of Capital Cost Estimates	Tick
Break-up of Capital Cost for Coally innite based projects	NA.
Break-up of Capital Cost for Gas/l iquid fuel based Disjects	ű
Break-up of Construction/Sunniv/Service parkages	NA.
Details of variables, parameters, colleged packages at a fee to the	NA.
Details of cost over nin	NA.
	NA.
Statement of Additional Control action of the Control of the Contr	NA.
Details of Assets De controlled during the acid	NA
Reconciliation of Capitalisation statement (is a second	NA.
Statement showing details of terroforestates books of accounts	NA
Statement of Cantal and	NA
Statement of Capital Wales in December 1	ü
Calculation of Interest on Newsorks	0
Calculation of Interest on Montaine Loan	0
Additional Corm	0
	NA
Cyclopida Expenditure up to SCOD and up to Actual COD	NA.
Actual cosh amond the packages up to SCOO and up to Actual COD	NA.
	NA.
Statement of Liability flow	a
commany of issues involved in the petition	0
	Title of Tariff Filing Forms (Thormal)  Abstract of Capital Cost Estimates  Break-up of Capital Cost for Coal/Lignite based projects  Break-up of Capital Cost for Gas/Liquid fuel based Projects  Break-up of Construction/Supply/Service packages  Details of variables , parameters , optional package etc. for New Project  Details of cost over run  Details of time over run  Statement of Additional Capitalisation during end of the useful life  Details of Assets De-capitalised during the period  Reconciliation of Capitalisation claimed vis-a-vis books of accounts  Statement showing details of items/assets/works claimed under Exclusions  Statement of Capital cost  Statement of Capital Woks in Progress  Calculation of Interest on Normative Loan  Calculation of Interest on Working Capital  Additional Form  Incidental Expenditure up to SCOD and up to Actual COD  Expenditure under different packages up to SCOD and up to Actual COD  Actual cash expenditure  Statement of Liabitity flow  Summary of issues involved in the petition

परिमल पीयूष/PARIMAL PIYUSH अगर महाप्रयुक्तक (१ किस्तुल स) Addl. General Manager (६००० कर)

एन दी पी सी सिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

					PART-I			
					FORM- 1			
	Summa	ry of Supplen	nentary Tariff (for DeNOx	System)				
Name of the Petitioner: NTPC Ltd.  Name of the Generating Station: Rihand Super Thermal Power Station Stage-III								
S. No.	Particulars	Unit	2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24 。			
1	2	3	4	5	6			
1.1	Depreciation	Rs Lakh	80.20	80.20	80.20			
1.2	Interest on Loan	Rs Lakh	72.92	73.89	71.38			
1.3	Return on Equity	Rs Lakh	57.98	57.98	57.98			
1.4	Interest on Working Capital Rs Lakh	4.08	4.14	4.75				
1.5	O&M Expenses	Rs Lakh	30.38	31.44	32.54			
	Total	Rs Lakh	245.56	247.65	246.86			

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणिवियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A. Sector-24, Noida-201301 (U.P.)

	Name of the Petitioner:	NTPC Ltd.		FORM-1(
	Name of the Generating Station:	Rihand Super T	hermal Pow	er Station St
			And the second second	in Rs. Lakh
	Statement showing claims	d capital cost		
S. No.	Particulars	2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24
1	2	3	4	5
1	Opening Capital Cost	1518.99	1518.99	1518.9
2	Add: Addition during the year/period			- 25
3	Less: De-capitalisation during the year/period	-	- 2	- 4
4	Less: Reversal during the year / period			18
5	Add: Discharges during the year/ period	-		- 3
6	Closing Capital Cost	1518.99	1518.99	1518.99
			The state of the s	40.00
7	Average Capital Cost	1518,99	1518.99	1518.9
1.5	Average Capital Cost  Statement showing claimed capital cost eligible for			1518.9
1.5				2023-24
7	Statement showing claimed capital cost eligible for	RoE at SBI MCLR+360 basis 2021-22 (01.03.2022 to	s points (A)	200220000
7 S. No.	Statement showing claimed capital cost eligible for Particulars	RoE at SBI MCLR+350 basis 2021-22 (01.03.2022 to 31.3.2022)	s points (A) 2022-23	2023-24
7 S. No.	Statement showing claimed capital cost eligible for Particulars	RoE at SBI MCLR+350 basis 2021-22 (01.03.2022 to 31.3.2022)	s points (A) 2022-23	2023-24
7 S. No.	Statement showing claimed capital cost eligible for Particulars  2 Capital Cost as on ODe of DeNOx system	RoE at SBI MCLR+350 basis 2021-22 (01.03.2022 to 31.3.2022)	s points (A) 2022-23	2023-24
7 S. No.	Statement showing claimed capital cost eligible for Particulars  2 Capital Cost as on ODe of DeNOx system Notional IDC	RoE at SBI MCLR+350 basis 2021-22 (01.03.2022 to 31.3.2022)	s points (A) 2022-23	2023-24
7 S. No.	Statement showing claimed capital cost eligible for  Particulars  2  Capital Cost as on ODe of DeNOx system  Notional IDC  IEDC	2021-22 (01.03.2022 to 31.3.2022) 3 1,518.99	s points (A) 2022-23 4	2023-24
7 S. No.	Statement showing claimed capital cost eligible for  Particulars  2  Capital Cost as on ODe of DeNOx system  Notional IDC  IEDC  Opening Capital Cost	2021-22 (01.03.2022 to 31.3.2022) 3 1,518.99	s points (A) 2022-23 4	2023-24
7 S. No.	Statement showing claimed capital cost eligible for  Particulars  2 Capital Cost as on ODe of DeNOx system Notional IDC IEDC Opening Capital Cost Add: Addition during the year / period	2021-22 (01.03.2022 to 31.3.2022) 3 1,518.99	s points (A) 2022-23 4	2023-24
7 S. No. 1 1 2 3	Statement showing claimed capital cost eligible for  Particulars  2 Capital Cost as on ODe of DeNOx system Notional IDC IEDC Opening Capital Cost Add: Addition during the year / period Less: De-capitalisation during the year / period	2021-22 (01.03.2022 to 31.3.2022) 3 1,518.99	s points (A) 2022-23 4	2023-24
7 S. No. 1 1 2 3 4	Particulars  Particulars  2  Capital Cost as on ODe of DeNOx system  Notional IDC  IEDC  Opening Capital Cost  Add: Addition during the year / period  Less: De-capitalisation during the year / period  Less: Reversal during the year / period	2021-22 (01.03.2022 to 31.3.2022) 3 1,518.99	s points (A) 2022-23 4 1.518.99	2023-24

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (पाणिव्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC. A-8A, Sector-24, Noida-201301 (U.P.)

PART FORM-1(IIA	*	+	* *				
		NTPC Ltd.	ne of the Petitioner:				
ge-III	al Power Station Sta	Rihand Super Therms	ne of the Generating Station:				
		uity at Normal Rate	Statement showing Return on Ed				
int in Rs. Lakh	Amo	A					
2023-24	2022-23	2021-22 (01.03.2022 to 31.3.2022)	i. No. Particulars				
5	4	3	2	1			
			irn on Equity				
455.70	455.70	455.70	s Opening Equity (Normal)	1			
	2		: Adjustment in Opening Equity	2			
			stment during the year	3			
455.70	455.70	455.70	Opening Equity (Normal)	4			
	878		Increase in equity due to addition during the year / period	5			
- 12	227	-	Decrease due to De-capitalisation during the year / period	7.			
4	3 <del>1</del> 3	+	: Decrease due to reversal during the year / period	8			
		-	Increase due to discharges during the year / period	9			
455.70	455.70	455.70	closing Equity (Normal)	10			
455.70	455.70	455.70	age Equity (Normal)	11			
12.7239	12.723%	12.723%	of ROE (%)	12			
57.98	57.98	57.98	ROE	13			

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वागितिस्थान) Addl. General Manager (Commircial) एन टी भी सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

		PART	
Plant Characteristics		FORM-	
Name of the Petitioner	NTPC Ltd.		
Name of the Generating Station	the Generating Station Rihand Super Therr		
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	
Installed Capacity ( MW)	500	500	
Environmental Regulation related features	Combustion		
Reagent	N	-	
Date of Operation for Tariff (ODe)	01-03-2022	01-03-2022	
Auxiliary Energy Consumption for emission control system (Design) (kW)*	N		

परिमल पीयुष/PARIMAL PIYUSH
Add. Gaperal Manager (Continue)
एम दो पी भी लिमिटेड/NTPO LIMITED
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Normative parameters consider	ed for supplemen	stary tariff comp	utations		*
Name of the Petitioner:	INTPC Ltd.		COCCUSION SERVICES		
Name of the Generating Station:	Rihand Super	Thermal Power	Station Stage-III		
	Marion Caracana	The second	South Control	nding March	
Particulars	Unit	Existing 2018- 19	2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24
1	2	3	4	5	6
lase Rate of Return on Equity	%		10.50%	10.50%	10.50%
flective Tax Rate	%		17,472%	17,472%	17.472%
arget Availability					
High Demand Season			85.00%	85.00%	85.00%
Peak Hours			85,00%	85.00%	85.00%
Off-Peak Hours			85.00%	85.00%	85.00%
n Low Demand Season(Off-Peak)			85.00%	85.00%	85.00%
Peak Hours		NA.	85.00%	85.00%	85.00%
Off-Peak Hours			85.00%	85.00%	85.00%
uxiliary Energy Consumption	%		6.25	6.25	6.25
uxiliary Energy Consumption for emission control system (Design)	%		-		
late of Interest on Working Capital	94	1 3	10.50	10.50	12.00
8M Expenses	% of Capital Cost	j i			2
faintenance Spares, for WC	% of O&M				20.00%
deceivables for WC	in Days				45
ivits	Date from which				
nit-l	01-03-2022				

परिमल पीयुष/PARIMAL PIYUSH
अध्य ग्रह्मप्रकृत्सकः (ह Addi General Manasarı एन ते भी सी शिविकेट NIPC Line 1760 EOC, A-BA Sector-24, Norda-201301 (U.P.)

				Part-I FORM-3A ADDITĪONAL FORM	
		ulation of O&M Expenses			
Nam	e of the Company :	NTPC Ltd.			
Name of the Power Station : Rihand Super Thermal Power Station Stage-III					
				mount in Rs. Lakhs	
S.No	Particulars	2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24	
1	2	3	4		
1	O&M expenses under Reg.35(1)(7)			-	
1a	Normative O&M expenses- ECS	30.38	31.44	32.54	
	Total O&M Expenses	30.38	31.44	32.54	

0

(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH
अपर महाप्रबन्धक (दर्गकेरिकक)
Addi. General Manager (Carametrial)
EDC, A-BA. Sector-24, Naida-201301 (U.P.)

	*	*	*	PART-I FORM- 9A Additional Form
	Year wise Statement of Additional	Capitalisation after COL		
Name	of the Petitioner	NTPC Ltd.		
	of the Generating Station	Rihand Super		
	nancial Year	Summary		
			Amo	ount in Rs Lakh
		ACE	Claimed (Acti	
SI. No.	Head of Work /Equipment	2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24
1	2	3	4	5
1	Combustion Modification System Unit 1	100	-	12
2	Combustion Modification System Unit 2			-
Total /	Add Cap			
5	Discharge of Liabilities	- 2	-	-
Total A	Add. Cap. Claimed including discharge of liabilities			1.1
		-	Si	(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH
अपर महाप्रबन्धक (पार्वनिविद्यन्त)
(न दो भी ती तिमिद्देड/NTPC LIMITED
EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

								PART-		
		Ves	ır wise Statemer	at of Addition	al Canita	lication after (	COD	FORM-		
Name	of the Petitioner	100	Hise Clatemer	NTPC Ltd.	ат Саріта	iisation after	COD			
Name of the Generating Station Rihand Super Thermal Power Station Stage-III						on Stage-III				
For Financial Year				2021-22			on otago iii			
								Amount in Rs Laki		
			ACE CI	aimed (Actua	1)					
SI. No.	Head of Work /Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC include d in col. 3	under	which	under which	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5= (3-4)	6	7	8	9		
1	Combustion Modification System Unit 1							-		
2	Combustion Modification System Unit 2									
3	Discharge of liabilities									
	Total		74	-	-			-		

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (दर्गणविकाक) Addl. General Manager (Commonal) एन दी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

								PART-
		Yea	r wise Statemer	nt of Addition	al Capita	lisation after	COD	
and the latest design to the l	of the Petitioner			NTPC Ltd.				
Name	of the Generating Station			Rihand Super Thermal Power Station Stage-III				
For F	inancial Year			2022-23				
-							Amo	ount in Rs Lakt
SI.	Head of Work /Equipment	-	ACE CI	aimed (Actua	1)			Admitted
No.		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC include d in col. 3	which	Justification	Cost by the Commission, if any
1	2	3	4	5= (3-4)	6	7	8	9
1	Combustion Modification System Unit 1	15.06	15.06		0			
2	Combustion Modification System Unit 2							
3	Discharge of liabilities					25(1)(f)	Discharge of liabilities of works already admitted/ claimed. Hon'ble Commission may be pleased to allow the same	*
	Total	15.06	15.06	+:			in odine	

(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाक्तिचिक्क) Addi. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

								PART-	
		Yea	r wise Statemer	t of Addition	al Capita	lisation after C	COD		
Name	of the Petitioner			NTPC Ltd.	-				
Name	of the Generating Station			Rihand Supe	r Therma	al Power Statio	on Stage-III		
For Fi	nancial Year			2023-24					
								Amount in Rs Lakt	
SI.	Head of Work /Equipment		ACE CI	imed (Actua	1)	CK 000 - 000		Admitted	
No.	No.		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC include d in col. 3	2000/2004/201	Justification	Cost by the Commission if any
1	2	3	4	5= (3-4)	6	7	8	9	
1	Combustion Modification System Unit 1								
2	Combustion Modification System Unit 2								
3	Discharge of liabilities			-					
	Total								

(Petitioner)

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (क्रिंगिज्यिक) Addl. General Manager (Commercial) एन टी यी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

PART-I FORM-11

Calculation of Depreciation Name of the Petitioner

NTPC

Name of the Generating Station

Rihand Super Thermal Power Station Stage-III

Amount in Rs Lakh

SI.No.	Name of the Assets1	Depreciation Rates as per CERC's Depreciation Rate Schedule	Gross Block as on 01.03.2022	Depreciation	Gross Block as on 01.04.2022	Depreciation	Gross Block as on 01.04.2023	Depreciation	Gross Black as on 01.04.2024	Depreciation
	Plant & Machinary	5.28%	3,037.98	160.41	3,037,98	160.41	3.068.09	162.00	3,068.09	162.00
- 3	Cooling Towers & CW System.	5.28%		0.00		0.00		0.00		0.00
- 4	Air conditioning	5.28%		0.00		0.00		0.00		0.00
. 5	Chimney	5.28%		0.00		0.00		0.00		0.00
6	Main Plant Building	3.34%		0.00		0.00		0.00		0.00
	Ash Dyke/Disposal Area	5.28%	- 3	0.00		0.00		0.00		0.00
- 8	S-Yard	5.28%		0.00		0.00		0.00		0.00
	Raw Water Reservoir	5.28%		0.00		0.00		0.00		0.00
10	MGR & Wagons	5.28%		0.00		0.00		0.00		0.00
11	Locomotive	9.50%		0.00		0.00		0.00		
12	Residential Building	3.34%		0.00		0.00		0.00		e 0.00
13	WaterTreatment Plant	5.28%		0.00		0.00		0.00		0.00
14	Spares	5.28%		0.00		0.00		0.00		0.00
15	Furniture & Fixtures, OFFICE EQUIPMENT	6.33%		0.00		0.00		0.00		1888
16	Other MBOAs / T&Ps	6.33%		0.00		0.00		0.00		0.00
17	EDP.WP & SATCOM.	15.00%		0.00		0.00		0.00		0.00
	Construction equipment	5.28%		0.00		0.00		0.00		0.00
	Temp.Constructions	100.00%		0.00		0.00		0.00		0,00
20	Central Repair/Workshop	5.28%		0.00		0.00		0.00		0.00
21	Road/Bridge	3.34%		0.00		0.00		0.00		0.00
	Software	15:00%		0.00		0.00		0.00		0.00
23	Water Supply drainage	5.28%		0.00		0.00		0.00		0.00
	5 Km Scheme	5,28%		0.00		0.00		0.00		0.00
26	Hospital Equipment	5.28%				0.00		0.00		0.00
26	Vehicle	9.50%				0.00		0.00		0.00
	Total		3,037.98	160.41	3,037.98	160.41	3,068.09	162.00	3,068,09	162.00
	Weighted Average Rate of Depreciation (%)			5.2800%		5.2800%	0,000,00	5.2800%	3,000.00	5.2809%

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (काणिजियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

				FORM-12
	Statement of Dep	reciation	•	
Nam	e of the Company :	NTPC Ltd.		2-140 <u> </u>
Nam	e of the Power Station :	Rihand Super Therm	al Power Station S	tage-III
			(Am	ount in Rs Lak
S. No.	Particulars	2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24
1	2	3	4	5
1	Opening Capital Cost	1,518.99	1,518.99	1,518.9
2	Closing Capital Cost	1,518.99	1,518.99	1,518.9
3	Average Capital Cost	1,518.99	1,518,99	1,518.9
5	Rate of depreciation (%)	5.28%	5.28%	5.28
6	Depreciable value	1,367.09	1,367,09	1,367.0
8	Remaining depreciable value	1,367.09	1,380.28	1,280.0
9	Depreciation (for the period)	6.81	80.20	80.2
10	Depreciation (annualised)	80.20	80.20	80.2
11	Cumulative depreciation at the end of the period	6.81	87.01	167.2
12	Less: Cumulative depreciation adjustment on account of un- discharged liabilities deducted as on 01,04,2009		*	-
13	Add: Cumulative depreciation adjustment on account of liability Discharge	23070	15	. 8
14	Less: Cumulative depreciation adjustment on account of de- capitalisation		- 1	Ť.
12	Net Cumulative depreciation at the end of the period after adjustments	6.81	87.01	187.2

परिमल वीवृष/PARIMAL PIYUSH
Add: General Menager (वार्कानिकार)
EOC, A-8A, Sector-24, Nolda-201301 (U.P.)

1,2000		d projects	v Coat/Lignite base	pital Cost for New	Break-up of Car	
-			NTPC Limited		of the Petitioner	
	n Stage-III	rmal Power Statio	Rihand Super The		of the Generating Station	Name
rount in Rs. Laki	(An					
Anticipated expenditure up out-off date	Specific Reasons for Variation*	Liabilities/ Provisions corresponding to (4)	Capitalisation as on Unit-I&II DeNOx System Capitalization i.e. as on 1.3.2022 (cash basis)	As per investment Approval	Break Down	BL. No.
(10)	(9)	[5]	(4)	(3)	[2]	(1)
4 24 -00 (4					Cost of Land & Site Development	1
-					Land*	1.1
7.				0.00	Total Land & Site Development	
					Plant & Equipment	2
	8 11		1,518.99		Combustion Modification Package	2.1
	5		1,518.99		Total Plant & Equipment	
			1,514.55		Taxes & Duties	2.6
		0.00	1518.99	0.00	Total Capital cost excluding IDC & FC	,
					IDC, FC, FERV & Hedging Cost	1
S I				17.	Interest During Construction	1,1
	a 1/1	7.6			Financing Charges (FC)	1.2
	8 a 11				Foreign Exchange Rate Variation (FERV)	1.3
	2 9	-	-		Hedging Cost	4
		19.4		-	Total of IDC, FC,FERV & Hedging Cost	
- /	3				Working Capital Margin	
/			1,518.99	-	Capital cost including IDC, FC, FERV & Hedging Cost	0

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रयन्धक (दाणिदियक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201361 (U.P.)

			Str	stement of Cap	ital cost					FORM
Van	e of the Petitioner a	NTPC Limbs	4							
	s of the Generating Station	****		wer Station Sta	ne-III		-			-
COL		27-03-2014	111111111111111111111111111111111111111		An in					
For	Financial Year	2021-24								2022-000
SL	Particulars	84.0	3.2022-31.03	9099	01.0	M.2022-31.03	9023	01.0	4.2023-31,03.	(Rs Lak
No.		Accruat Basis	Un-	Cash Basis	Accrual Basis	Ue-	Cash Basis	Accreal Basis	Un- discharged Liabilities	UK Species
	a) Opening Gross Block Amount as per books	1,518.99	- 0.5	1,518.99	1,518.99	55/65/65(sa)	1,518.99	1,534,05	15.06	1,518.96
	b) Amount of IDC in A(a) above	2.		1.00	772	- 47	-	-		
A.	c) Amount of FC in A(a) above	20			327	+ 1	(4)		11 10	- 4
	d) Amount of FERV in A(s) above	- +		1.4	3-0	+.				-
	e) Amount of Hedging Cost in A(a) above	2. 83				- 4		7.0		
-	f) Amount of IEDC in A(a) above	- +0		-		_	1-1	+		-
j	a) Addition in Gross Block Amount during the period (Orect purchases)	1 2	1.7							
_	b) Amount of IDC in B(a) above	+	4		-	-	-			
В	c) Amount of FC in B(a) above	- +	+ 1							
	d) Amount of FERV in B(a) above		+		- 9		1.5-			
	e) Amount of Hedging Cost in B(s) above	0	1.0		4	-	-	5.4	Fr 13	
-	() Amount of EDC in B(s) above	-		-	-	-				
Ī	a) Addison in Gross Block Amount during the period (Transferred from CWIP)	1		- 4	15.06	15.09	- 1			
2	b) Amount of IDC in C(a) above		104		-					
e.	c) Amount of FC in C(a) above			-	- 1			27-		
	d) Amount of FERV in C(a) above			-						
	e) Amount of Hedging Cost in C(a) above	41						100		
-	f) Amount of IEDC in C(a) above		- 4	-	-	-	-	-		
	a) Detetion in Gross Block Amount during the period	- 1	(4)	- 1			-			
	b) Amount of IDC in D(a) above			-				7.4		
D	c) Amount of FC in D(a) above			-			-	- 54		
	d) Amount of FERV in D(a) above	+ .	- 4	-					- 2	
	e) Amount of Hedging Cost in D(a) above		1141	-			. 94			
-6	f) Amount of EDC in Drai above				_		-			
	a) Closing Gross Block Amount as per books	1,518.99	-	1.518 89	1,534.05	15.06	1,518.99	1,534.05	-	1,518.9
	t) Amount of IDC in E(a) above		- 9		-			-		
E	c) Amount of FC in E(a) above		- 4	-	-	-		-		
	d) Amount of FERV in Elai above	-		-	-			- 4		1
	e) Amount of Hedging Cost in E(a) above	-		-		- 4	-	- 0		
_	f) Amount of (EDC in E(s) above	- 4	- 1	_	-		124	13	~ /	

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रबन्धक (वर्तगिक्यिक) Addl. General Manager (Commercial) एन टी पी सी लिपिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

			Statemen	nt of Capital W	lorks in Prog	ress				
Alare	e of the Petitioner	NTPC Limite								
	e of the Generating Station	TANK OF BUILDING		wer Station St	ves III				-	
COD		27-03-2014	er Theoreas Pu	wer attendings	age-iii					
-	Inancial Year	2021-24								
91.	THE TENED TO BE	2021-24	_							(Ru Laki
SI.	Particulars	01.5	0.2022-51.03	2822	04.0	4.2022-31.03	2523		04.2023-31.03	
No.	7 4102342	2.00	2000	1		4.2925-01/90	2723	.91.	04.2023-31.03.	2024
		Accrual Basis	Un- discharged Liabilities	Cash Basis	Accrual Basis	discharged Liabilities	Cash Basis	Accrual Basis	Un- discharged Liabilities	Cash Basi
	a) Opening CWIP as per books		-		-	-				
	b) Amount of IDC in A(a) above		-	1 TE-						
-	c) Amount of FC in A(a) above	-	-	-	-	124				
A	d) Amount of FERV in A(a) above		-	-					-	
	a) Amount of Hedging Cost in A(s) above			-	1.0	22	93	94	3	
	f) Amount of IEDC in A(a) above								-	-
	The state of the s								-	
	ii) Addition in CWIP during the period				15.08		15.06		1	
	b) Amount of IDC in B(a) above			1.4	0.02		W. S.			
	c) Amount of FC in B(a) above	-	3 34	-	- 4					
8	d) Amount of FERV in B(a) above				554					
	e) Amount of Hedging Cost in B(a) above					12	-	- 1		
	5 Amount of IEDC in B(a) above						-			
-	a) Transferred to Gross Block Amount	- 70			555.2	-	10.55590			
	during the period				15.06		15.06			
	b) Amount of IDC in C(a) above	7				- 4				
C	c) Amount of FC in C(a) above			1 1 34	2 14	-	- 3			
*	d) Amount of FERV in C(a) above	3.4				. +	- 2			
	Amount of Hedging Cost in C(s) above	9	-			2	- 4			
_0	f) Amount of IEDC in C(s) above					-				
-	a) Deletion in CWIP during the period				127	- 22				
	b) Amount of IDC in D(a) above		-	- 1	-		- 1			
	c) Amount of FC in D(a) above	-		-						
D	d) Amount of FERV in D(a) above	-					-			
	e) Amount of Hedging Cost in D(a) above									
- 1	6 Amount of IEDC in D(a) above	-		-		-	-			_
			-							
- 8	Closing CWIP as per books			- 3						
	b) Amount of IDC in E(a) above			-				-		
	c) Amount of FC in E(a) above		-	-		-	_	- 1		
-	d) Amount of FERV in E(a) above e) Amount of Hedging Cost in E(a) above	-	-		-					
- 9	f) Amount of IEDC in E(a) above									
- 30								(	70/	/

परिमल पीयुष/PARIMAL PIYUSH
Addi. General Manager (Commercial)
EOC, A-8A, Sector-24, Noide-201301 (U.P.)

		V20 ( 0		PART- FORM-N
	Calculation of Interest on Normal	tive Loan		-7.000,000
Name of	f the Company :	NTPC Ltd.		
	f the Power Station :	Rihand Super	Thermal Powe	er Station Sta
	The state of the s	1.5.114000011100000000000000000000000000	(Amoun	t in Rs Lakh
S. No.	Particulars	2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24
1	2	4	5	6
1	Gross Normative loan - Opening	1,063.29	1,063.29	1,063.29
2	Cumulative repayment of Normative loan up to previous year	0.00	6,81	87.01
3	Net Normative loan - Opening	1,063.29	1,056.48	976.28
4	Add: Increase due to addition during the year / period	100000000000000000000000000000000000000		
5	Less: Decrease due to de-capitalisation during the year / period		-	
6	Less: Decrease due to reversal during the year / period			
7	Add: Increase due to discharges during the year / period	+31	- 8	- 4
8	Less: Repayment of Loan	6.81	80.20	80.20
9	Net Normative loan - Closing	1,056.48	976.28	896.07
10	Average Normative loan	1,059.89	1,016.38	936.18
11	Weighted average rate of interest	6.8796%	7.2697%	7.6249%
12	Interest on Loan	72.92	73.89	71.38

परिमल दीयुष/PARIMAI PIVUSH
Acti, General Manuel
हम दी दी भी सिक्ति के किस्ति के कि

	Calculation of	Interest on V	Vorking Capital		
Name	of the Company :		NTPC Ltd.	,	
Name	of the Power Station :		Rihand Super Therr	mal Power Station	Stage-III
20000	W 4400000000000000000000000000000000000			(Amo	ount in Rs Lakh
S. No.	Particulars		2021-22 (01.03.2022 to 31.3.2022)	2022-23	2023-24
1	2		4	5	6
	No of days		365	365	366
1	Cost of Limestone/Reagent toward stock	20 days		- 2	- 1
2	Cost of Limestone/Reagent toward generation	30 days			Y
3	Receivables	45 days	30.27	30.53	30.35
4	O & M Expenses	1 month	2.53	2.62	2.71
5	Maintenance Spares	@20%	6.08	6.29	6.51
6	Total Working Capital	Rs. Lakh	38.88	39.44	39.5
7	Rate of Interest	%	10.50%	10.50%	12.009
8	Interest on Working Capital	Rs. Lakh	4.08	4.14	4.78

परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रबन्धक (वाणितिकाक) Addl. General Manager (Commercial) एन टी पी शी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

Flaw of	Capital liabilities									Form-5
	the Generating Station	Rihand Super Thormal Power Station	Stage-III				-			Amount in Rs
Sr. No.	Name of the Party	Name of the work	Year of creation of hability capitalised in Gross Block	Undischarged Habilities relating to GB 01.64.2021	liability in additional capitalisation for 2021-22	Contractors ERV updation	Discharge during	g the year 2021-22	Total discharge	Undischarged liabilities relating to GB 31.03.2022
							By Payment	By Reversel		
(1)	(2)	(3)	(40	(110)						
1	Charat Heavy Electricals Limited	Combustion Modification Package	01.03.2022-31.03.2022	II e -					4 6	
2	Sharat Heavy Electricals Limited	Combustion Modification Package	01.04.2022-31.03.2023	4			+-		10000	
	STATES AND STATES OF THE STATES	Chesta and Articles and Articles	The state of the state of							

परिमल पीयुष/PARIMAL PIYUSH अपर महाप्रवन्धक (वाणिनियक) Addl. General Manager (Commercial) एन दी ती सी लिगिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201301 (U.P.)

low of	Capital liabilities									Part
	the Generating Station	Others Committee of Committee o								Form-5
MARKE OF	the Ownerstang Station	Rihand Super Thermal Power Station Sta	90-IE				-			Amount in Rs
Br. No.	Name of the Party	Name of the work	Year of creation of Sability capitalised in Gross Block	Undischarged liabilities relating to GB 01.04.2022	liability in additional capitalisation for 2022-23	Contractors ERV updation	V Discharge during the year 2022-25		Total discharge	Undischarged liabilities relating to GB 31.03.2023
115	-						By Payment	By Reversal		
	- 91	(3)	(4)	(11)						- 10
1	Bharat Heavy Electricals Limited	Consustion Modification Package	01.08.2022-31.08.2022							
2	Bharat Heavy Electricals Limited	Combustion Modification Package	01.04.2022-31.03.2023		15.05.770				-	7 40 40 400
9308										15,05,770
				-	15,05,770		-	- 6		15,05,770

(Petitioner)

परिमल पीयुष/PARIMAL PIYUSH
अपए महाप्रवृत्त्वक (द्वाने विद्यान)
Addi. General Manager (Common all)
हम दी पी सी लिमिलेड /NTPC LIMITED
EOC, A-BA, Sector-24, Noida-201301 (U.P.)

Par									Capital Babilities	low of
Form								Rihand Super Thermal Power Station St	the Generating Station	
Amount in 8			-				age-H	romains super marmai Power station of	Circ Generaling analysis	121112 01
Undischarged liabilities relation to GB 31.03.2024	Total discharge	during the 023-24	Discherge year 20	Contractors ERV updation	Rebility in additional capitalisation for 2023-24	Undischarged Babilities relating to GB 01.04.2023		Name of the work	Name of the Party	Br. No.
		By Reversal	By Payment							
						(11)	(4)	(2)	Q1	173
		51.2	2.1			0.000	01.03.2022-31.03.2022	Combuston Modification Package	Bhanst Heavy Electricals Limited	
46.06.95					- +-	15.05.770	01.04.2002-31.03.2023	Combustion Modification Papsage	Bharat Heavy Electricals Limited	2
15.05,77 16.05,77					14.7	15,05,770	0.1000000000000000000000000000000000000	The Control of the Co		5.4

परिमल पीयूष/PARIMAL PIYUSH अपर महाप्रथम्पक (दाणिक्यक) Addl. General Manager (Commercial) एन टी भी सी लिगिटेड/NTPC LIMITED EOC. A-BA, Sector-24, Nolda-201301 (U.P.)

				PART- FORM-				
		Summary of issue invo	ved in the petition	PORM-				
Marena	of the Company :	NTPC Ltd.	TEST III SIIC POSIDOI					
	of the Power Station :	Rihand Super Thermal Power Sta	tion Stage-III					
1	Petitioner:	NTPC Ltd.	tion stage in					
2	Subject	Determination of Supplementary	Tariff (for DeNOx System) for 2	019-24 period				
3	ii) Approve supplementary controlling Nox emissions. iii) Allow the Petitioner to re iv) Allow the reimbursement	Rhand-III for the tariff period 2019-24 as per tariff for Rihand Super Thermal Power St cover the additional O&M cost for ash trans t of water charges, capital spares and secu- tional deem fit in the circumstances mention	stion Stage-III (2x500MW) on ins sportation. rity expenses for the instant statio	stallation of Emission Control System fo				
4	Respondents		91,530,634-3.					
	Name of Respondents	eproper monthly and the second						
	1. Uttar Pradesh Power Cor	rp. Ltd. (UPPCL)						
	2. Rajasthan Urja Vikas Nij	gam Limited (RUVNL) -	-					
	3. Tata Power Delhi Distribu	ution Limited						
	4. BSES Rajdhani Power Limited							
	5. BSES Yamuna Power Limited,							
	6. Haryana Power Purchase Centre							
	7. Haryana Power Purchase Centre							
	8. Himachal Pradesh State	No. of the Control of						
	Power Development Department     Power Development Department							
	10. Electricity Department of							
	11. Uttarakhand Power Cor							
5	Project Scope							
	Cost		1518.99					
	Commissioning							
	Claim		1518.99					
	AFC (2023-24)		246.86					
	Capital cost		1518.99					
	Initial spare							
	NAPAF (Gen)		85%					
	Any Specific							

(Petitioner)

परिमल शीवष्/PARIMAL PIYUSH
Addi General Manager (ट्रान्टिस)
EOC, A-8A, Sector-24, Noida-201301 (U.P.)

# Annexure-1

		Annexure-1
	AUDITOR OFFICIOATE	Form
Station:	AUDITOR CERTIFICATE	
The second second second	Rihand Super Thermal Power Station	
Month:	Apr-2022 to Mar-2023	
S. No	Details	Amount (in Rs. )
1	Cumulative Ash transportation expenditure incurred (as per MOEF&CC Notification dt. 31.12.2021) including any adjustments in respect of any prior months. Such expenditure shall include liability, if any. (X)	1,181,027,313
2A	Opening balance of ash sale revenue as on 01.04.2022 (O)	0.00
2B	Cumulative Ash sale revenue / proceeds received including any adjustments in respect of any prior months. (Y)	549433
3	Cumulative Net Ash transportation expenses of Station (Z= X-Y-O)	1180477879
4	Billable Cumulative ash transportation expenses of Station	1100477013
	(A = Z * F * 0.9)	1055607059
HTPS-1		
5.1	Billable Cumulative Ash transportation expenses of Commercial Stage (C = A * Cum SG Commercial stage / Cum SG station)	321,960,804
6.1	Cumulative Ash transportation expenses billed to beneficiary N	B <sub>N</sub> = Cum SG <sub>benefolaryN</sub> / Cum SG commercel stage * [C]
	AJMER	8,223,236
	AVVNL-NSM	3,210,680
	BRPL	22,556,306
	HARYANA	21,207,093
	HPSEB	12,870,046
	JAIPUR	12,070,098
	JDVVNL-NSM	4,088,332
	JODHPUR	10,469,795
	JVVNL-NSM	4,712,319
	MP	1,246,847
	NCR NVVN COAL	15,927,799
	NDMC	375,681
	NDPL	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND
	NVVN-BPDB	10,181,169 8,282,740
	PDD J&K	25,342,688
	PGRH	267,400
	PUNJAB	36.270,565
	UP	THE RESIDENCE OF THE PARTY OF T
	UPPCL-NSM	106,343,960
	UTCHD	1,830,345
	UTTARAKHAND	3,218,332
	VI I I I I I I I I I I I I I I I I I I	13,265,375



HTPS-2		0.592-80302
5.1	Billable Cumulative Ash transportation expenses of Commercial Stage (C = A * Cum SG Commercial stage / Cum SG station)	378,967,17
6.1	Cumulative Ash transportation expenses billed to beneficiary N	B <sub>N</sub> = Cum SG <sub>beneficiaryN</sub> / Cum SG commercial stage * [C]
	AJMER	10,162,833
	AVVNL-NSM	4,075,781
	BRPL	21,282,746
	BYPL	12,491,064
	HARYANA	21,770,752
	HPSEB	15,057,643
	JAIPUR	14,920,522
	JDVVNL-NSM	5,192,461
	JODHPUR	12,945,742
_	JVVNL-NSM	5,983,547
	MP	1,534,583
	NCR NVVN COAL	20,303,425
_	NDMC	483,762
	NDPL	15,063,382
	NVVN-BPDB	5,825,016
	PDD J&K	38,502,462
	PUNJAB	39,502,111
	UP	114,027,751
	UPPCL-NSM	2,356,044
	UTCHD	3,207,571
	UTTARAKHAND	14,277,981



5.1	Billable Cumulative Ash transportation expenses of Commercial Stage (C = A * Cum SG Commercial stage / Cum SG station)	354,679,079
6.1	Cumulative Ash transportation expenses billed to beneficiary N	B <sub>N</sub> = Cum SG <sub>beneficiaryN</sub> / Cum SG commercial stage * [C]
	AJMER	10,998,149
	AVVNL-NSM	4,234,702
	BRPL	28,133,412
	BYPL	19,568,814
	HARYANA	19,995,169
	HPSEB	13,023,390
	JAIPUR	16,156,595
	JDVVNL-NSM	5,396,453
	JODHPUR	14,014,337
	JVVNL-NSM	6,220,823
	MP	1,153,775
	NCR NVVN COAL	21,069,063
	NDMC	463,856
	PDD J&K	26,495,800
	PUNJAB	30,138,770
	UP	117,755,824
	UPPCL-NSM	2,457,583
	UTCHD	2,395,961
	UTTARAKHAND	15,006,608

For

Management (NTPC)

Thota Vinodh Kumar

General Manager (Finance)

Date: 25/05/2023

For

VADODARA FRN:108227 Diwanji and Associates

FRN: 100227

**CMA Sweety Shah** 

(Partner)

M.No.: 45648

UDIN:2345648B2NYJMXOUYW



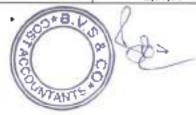
		Format
	AUDITOR CERTIFICATE	
Station:	Rihand Super Thermal Power Station	
Wanth:	Apr-2023 to MAR 2024	
S. No	Details	Amount (in Rs. )
1	Cumulative Ash transportation expenditure inclined (as per MOEF&CC Notification of 31.12.2021) including any adjustments in respect of any prior months Such expenditure shall include liability, if any, (X)	
2A	Opening balance of ash sale revenue as on 01,04,2023 (0)	0.00
2B	Cumulative Ash sale revenue / proceeds received including any adjustments in respect of any prior months. (Y)	44G9268
3	Cumulative Net Ash transportation expenses of Station (Z≈ X-Y-D)	2123308933
4	Billable Cumulative ash transportation expenses of Station (A = Z * F * 0.9)	1910978039
RHTPS-1		
5.1	Billable Cumulative Ash transportation expenses of Commercial Stage (C = A * Cum SG Commercial stage / Cum SG station)	65.42,54,581
6.1	Cumulative Ash transportation expenses billed to beneficiary N	B <sub>N</sub> = Cum SG <sub>ster(kinys</sub> / Cur SG <sub>comerce(stage</sub> *[C]
	AJMER	1,76,59,772
	AVVNL-N584	67.29,896
	BRPL	4,61,48,783
	GUIARAT	9,67,756
	HARYANA	4,38,70,272
	HPSEB	2,66,13,631
	JAIPUR	2,35,73.665
	JOVVNL-MSM	82,19.908
	TODHAND	2.15,63,789
	JVVNL-NSM	89,85,346
	MP	85,50,560
	NBPDCL - NTPC	54,416
	NCR NVVN COAL	3,18,15,339
	NDMC	1,37,432
	NDPL	2.07,80,128
	NVVN-BP08	1,69,94,019
	PDD J&K	5,44,97,828
	PGRH	5,44,074
	PUNJAB	7,33.67,163
	58PDCL - NTPC	63,878
	UP	20,13,19,748
	UPPCL-NSM	36,82,334
	UTCHO	80,07,959





	UTTARAKHAND	3.01.06,885
HTPS-	2	
5.1	Billable Cumulative Ash transportation expenses of Commercial Stage (C = A * Cum SG Commercial stage / Cum SG station)	60 81,24,997
6.1	Cumulative Ash transportation expenses billed to benefic ary N	By = Cum SG <sub>senelcary(4</sub> ) Cu SG <sub>commercial stage</sub> * [C]
	AJMER	1,70,33,916
	AVVNL-NSM	67,40,046
	BRPL	3,42,71,674
	BYPL	1,99.73,437
	GUJARAT	10,67,596
	HARYANA	3,55,50.694
	HPSEB	2,49,17.675
	JAIPUR	2,28,35,025
	JDV/NL-NSM	82.81.344
	JODHPUR	2,09,24,118
	JV/NL-NSM	90,37.010
	MP	57,62,383
	NBPDCL - NTPC	60,567
	NCR NVVN COAL	3,19,79 187
	NDMC	1,62,497
	NDPL	2,41,52,029
	NVVN-BPD6	94.08,256
	PDO J&K	6,51,24,543
	PUNJAB	6,30,13,641
	SBPDCL - NTPC	71.399
	UP	17,25,14,827
	UPPCL-N5M	37,01,294
	UTCHD	66,26,327
	UTTARAKHAND	2,49,15,632
HTPS-3		
5.1	Bulable Cumulative Ash fransportation expenses of Commercial Stage (C = A * Cum SG Commercial stage / Cum SG station)	64,85,98.465
6.1	Cumulative Ash transportation expenses billed to beneficiary N	$B_h = Curn SG_{benefocory(4)} CurSG_{commercial slage * [C]$
	AJMER	2 11,14,953
	AVVNL-NSM	80,59,593
	BRPL	5,21,40,994
	BYPL	3,59.41,517
	GUJARAT	12,70,235
	HARYANA	3,78,55.257
	HPSEB	2,37,56 112





2.82,50,430
98,80,398
2,58.65,803
1,07.88,963
21,01,291
69,143
3,81,87,408
1,84,491
5,19,48.373
5,54,97,034
81.167
20,45,66.584
44,19 841
57,99,232.00
3,08,19,646.00

For Management (NTPC)

Thota Vinodh Kurnar General Manager (Finance)

अपर मस्त्रप्रकावक (व्यक्तिविक्क)

# BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH NEW DELHI

## ORIGINAL APPLICATION NO. 123 OF 2014 AND M.A. NO. 419 of 2014

#### IN THE MATTER OF:

Himmat Singh Shekhawat, 98, Rooprajat Township, Phase-II, Pal Road, Jodhpur – 342008 Rajasthan

..... Applicant

#### Versus

- State of Rajasthan
   Through Principal Secretary, Mines Department,
   Government of Rajasthan, Secretariat,
   Jaipur 302001,
   Rajasthan.
- Director, Mines & Geology Department Khanij Bhawan,
   Shashtri Circle, Udaipur - 313001,
   Rajasthan
- 3. Union of India
  Through the Secretary
  Ministry of Environment and Forests
  Government of India,
  Paryavaran Bhawan, CGO Complex
  Lodhi Road, New Delhi 110003
- 4. Secretary, Forest Department Government of Rajasthan, Secretariat, Jaipur – 302001, Rajasthan.
- 5. Larsen & Toubro Ltd.
  4th Floor, SDC Monarch,
  Plot no. D-236,
  Amrapali Marg,
  Jaipur 302021
  Rajasthan

Through Mr. Vivek Narayan Gokhale, Project Director, Larsen and Tourbo Ltd.

6. M/s. Hi-Tech Rock Products & Aggregates Ltd.





(A Company incorporated under the Companies Act, 1956) Having registered Office at Mount Poonamallee Road, Manapakkam, P.O. Box 979, Chennai – 600089

Through Mr. K. Prasanna Kumar, Manager (Mines) Hi-Tech Rock Products & Aggregates Ltd.

- Mr. Prahlad Rai
   R/o Ward No. 10,
   Behind DSP Office,
   Ladnu Road,
   Sujan Garh,
   District Churu, Rajasthan
   Through POA holder Shri Rohitash.
- Mr. Jagdish Kumar Jat
   R/o 13, Ramdev Mandir Mohalla,
   P.O. Salasar, Tehsil-Sujangarh,
   District Churu,
   Rajasthan 331507
   Through POA holder Shri Rohitash
- Mr. Yogesh Kumar Nyariya
   R/o Krishi Upaj Mandi,
   Shrimadhopur,
   District Sikar, Rajasthan
   Through POA holder Sh. Shahbuddin Quereshi
- 10. M Vinita Devi R/o Karni Dharma Kanta, H-Pratham, 23-Industrial Area, Neemka Thana District Sikar, Rajasthan Through POA holder – Sh. Shahbuddin Quereshi
- Ms. Kavita Jain
   R/o Sadar Bazar, Rupangarh,
   Tehsil-Kishangarh
   District Ajmer, Rajasthan
   Through POA Holer Proprietor,
   M/s. Maruti Mines & Minerals
   Mr. Sarveshwar Agarwal &
   Sh. Sanjay Kumar Jain
- Ms. Sushila Jain
   R/o Sadar Bazar, Rupangarh,
   Tehsil Kishangarh
   District Ajmer, Rajasthan

असर नस्त्राच्चक (व्यक्तिक्क)

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Through POA Holder - Proprietor, M/s. Maruti Mines & Minerals Mr. Sarveshwar Agarwal & Sh. Sanjay Kumar Jain

- Mr. Virendra Dave
   Bada Bas, Near Laxmi Temple,
   Sojat City,
   Dist, Pali, Rajasthan
   Through POA Holder Shri. Rajuram Gurjar
- Mr. Sohanlal Gurjar Gurjaro Ka Vas, Village Kharchi

.....Respondents

#### AND

### APPEAL NO. 23 OF 2014 AND

M.As. NO. 469 OF 2014, 470 OF 2014, 471 OF 2014, 473 OF 2014, 479 OF 2014, 480 OF 2014, 488 OF 2014, 489 OF 2014, 512 OF 2014 AND 563 OF 2014

IN APPEAL NO. 23 OF 2014

## IN THE MATTER OF:

Sunil Acharya S/o Shri Chndra Shekhar Acharya, 245, Ramchandra, Matri Chhaya, Tajgiron Ki Bari, Kalika Mata Road, Banswara Rajasthan.

..... Applicant

#### Versus

- Shri Sanjay Bakliwal S/o Shri Manak Chandra Bakliwal, Director, M/s. R.K. Grenny Marmo Pvt. Ltd., R/o Oswali Mohalla, Madanganj, Kishangarh, District Ajmer, Rajasthan-305001
- Shri Ashok Patni S/o Shri Kanwarlal Patni, Director, M/s. R.K. Premises Pvt. Ltd., R.K. House, Madanganj, Kishangarh, District Ajmer, Rajasthan – 305001
- Shri V.K. Gheeya
   S/o Late Shri Kamal Prasad Gheeya,
   Director, M/s. Patni Premises Pvt. Ltd.,
   R/o 202, Mahalaxmi Apartment, Post Badgaon,
   Bedla Road, Udaipur, Rajasthan-313001
   Through the Chief Secretary,

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Delhi Secretariat, I.P. Estate. New Delhi - 110002

- Shri Vinay Patni S/o Shri Suresh Kumar Patni. Director, M/s. Patni States Pvt. Ltd. Through its Vice Chairman, Vikas Bhawan. New Delhi - 110002
- Shri Suresh Patni S/o Shri Kanwarlal Patni, Director, M/s. Supreme Buildstates Pvt. Ltd. R/o R.K. House, Madanganj, Kishangarh, District Ajmer, Rajasthan-305001
- 6. Shri Parmanand Patidar S/o Shri Prabhulal Patidar, Director, M/s. Elegant Premises Pvt. Ltd. R/o 20, Kanchan Deep, Bohra Ganesh Road, Udaipur, Rajasthan-313001.
- Shri Jaideep Shah S/o M/s. R.K. Super Cement Product Pvt. Ltd. R/o D-8, Lal Bahadur Nagar, In front of Hotel Clark, J.L.N. Marg, Jaipur, Rajasthan.
- 8. The Government of Rajasthan Through the District Collector and the President, District Level Forest Rights Committee, Banswara, Rajasthan-327001.
- The Assistant Engineer. Mines and Geology Department, Banwara - 327001.
- The Dy. Forest Conservator, Department of Forest, Dahod Road. Banswara - 327001
- 11. The Senior Assistant Inspector General of Forest, Ministry of Forest Environment House, C.G.O. Complex, Lodhi Road, New Delhi.

.....Respondents

AND ORIGINAL APPLICATION NO. 343/2013 AND M.A. NO. 442 OF 2014 and M.A. NO. 1093 OF 2013 IN ORIGINAL APPLICATION NO. 343 OF 2013



Shri Ranbir Singh S/o Shri Swadesh Singh, Proprietor M/s. New Shiva Stone Crusher, Vill. & P.O. Kandwal, Tehsil Nurpur And Distt. Kangra, Himachal Pradesh.

..... Applicant

#### Versus

- State of Himachal Pradesh
   Through Secretary (Industries) to the Govt. of Himachal Pradesh, Shimla-1.
- Director Industries to the State of H.P. Udyog Bhawan, Shimla – 1
- State Geologist to the State of H.P. Udyog Bhawan, Shimla -1
- Mining Officer, Solan Distt., Solan, Himachal Pradesh
- Mr. Parshant Joshi
   A, Agar Nagar,
   Ludhiana.

.....Respondents

#### AND

## ORIGINAL APPLICATION No. 279(T<sub>HC</sub>) of 2013 AND M.A. NO. 1120 OF 2013 IN ORIGINAL APPLICATION No. 279(T<sub>HC</sub>) of 2013

- Smt. Promila
   W/o Shri Rajesh Kumar,
   Proprietor M/s. Amarjeet Stone Crusher,
   Vill. Sainsiwala, P.O. Barotiwala, Tehsil Baddi
   And Distt. Solan,
   Himachal Pradesh.
- Shri Mohan Lal Mehta S/o Shri Hira Nand Mehta, Proprietor M/s. Vishwakarma Hard Stone Crusher, Vill. Khali, P.O. Kumarhatti, Tehsil & Distt. Solan, Himachal Pradesh.

Qh:

अपर महासावनाक (वाणिरियक) Add. General Manager (Commercial) एन श्री की विभिन्नेत्र /NIPC LIMITED Shri Sanjay Singh S/o Shri Mohan Singh, Proprietor M/s. Shiva Stone Crusher, Vill. Kailar, P.O. Saproon, Tehsil & Distt. Solan, Himachal Pradesh.

..... Applicants

#### Versus

- 4. State of Himachal Pradesh Through Secretary (Industries) to the Govt. of Himachal Pradesh, Shimla-1.
- Director Industries to the State of H.P. Udyog Bhawan, Shimla - 1
- State Geologist to the State of H.P. Udyog Bhawan, Shimla - 1
- 7. Mining Officer. Solan Distt., Solan, Himachal Pradesh

.....Respondents

#### AND

# M.A. NOs. 529 of 2014 & M.A. NO. 623 OF 2014 Original Application No. 171 OF 2013

### IN THE MATTER OF:

National Green Tribunal Bar Association

..... Applicant

Versus

Ministry of Environment & Forests & Ors.

.....Respondents

## AND IN THE MATTER OF:

Dr. Sarvabhoum Bagali, Kachari Road, Opp. Head P.O., Indi, Dist. Bijapur, Karnataka-586209

..... Applicant

Versus

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State of Karnataka Department of Mines and Geology, Through its Director, No. 49, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka - 560001

- Department of Law, Justice & Human Rights, Government of Karnataka, Through its Principal Secretary, Vidhana Soudha, Bangaluru-560001
- Karnataka State Pollution Control Board Through its Member Secretary, 'Parisara Bhavan', #49, IVth & Vth Floor, Church Street, Bengaluru- 560001
- Department of Industries and Commerce, Govt. of Karnataka, Through Secretary to the Government, No. 49, South Block, Khanija Bhavana, Race Course Road, Bengaluru- 560001
- Karnataka State Environment Impact Assessment Authority (SEIAA), Through its Chairman, Department of Ecology & Environment, Room No. 709, VII Floor, IV Gate, M.S. Building, Bengaluru
- Public Works Department, Through its Principal Secretary, Karnataka Government Secretariat, III Floor, Vikasa Soudha, M.S. Building, Dr. Ambedkar Road, Bengaluru- 560001
- Executive Engineer, Public Works Department, Bangalore Rural Division, PWDD Annexue Building, II Floor K.R. Circle, Bengaluru, Karnataka – 560001
- Executive Engineer,
   Public Works Department,
   PWD Division, 23<sup>rd</sup> Sector,
   Navanagar, Bagalkot,
   Bagalkot Distt., Karnataka 587103.
- Executive Engineer,
   Public Works Department,
   PWD Division, Kote, Belgaum,
   Belgaum Distt.,
   Karnataka 590016
- Executive Engineer, Public Works Department, PWD Division, Kote, Bellary, Bellary Distt.,

Oh.

अपर पाराधान्यक (चाणिजियक) Add. General Manager (Commercial) एन दी बी बी तिविदेश/MITC LIMITE

### Karnataka - 583102

- Executive Engineer, Public Works Department, PWD Division, Mangalpet, Opp. to S.P. Office, Bidar, Bidar Distt., Karnataka – 585401
- Executive Engineer,
   Public Works Department,
   PWD Division, Station Road,
   Opp. to State Bank of India, Bijapur,
   Bijapur Distt. Karnataka 586101
- Executive Engineer,
   Public Works Department,
   PWD Chamarajnagar Division,
   Kote Road, Chamarajnagar,
   Chamarajnagar Distt., Karnataka 571313
- Executive Engineer,
   Public Works Department,
   PWD Chikkaballapur Division,
   Opp. to Govt. Hospital, Chikkaballapur,
   Chikkaballapur Distt., Karnataka 562101
- Executive Engineer,
   Public Works Department,
   PWD Chikmagalore Division,
   Near Azad Park, Belur Road, Chikmagalore,
   Chikmagalore Distt., Karnataka 577101
- Executive Engineer,
   Public Works Department,
   PWD Chitradurga Division,
   D.C. Circle, Chitradurga
   Chitradurga Distt., Karnataka 577501
- Executive Engineer,
   Public Works Department,
   PWD Mangalore Division, Mini Soudha,
   II Floor, Opp. Nehru Ground, Hampanakatte,
   Mangalore, Dakshina Kannada Distt., Karnataka 575001.
- Chief Secretary, Government of Mizoram Civil Secretariat, Block-C Aizwal-796001.
- Chief Secretary, Government of Nagaland Secretariat,

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अपर मासायन्यक (वाणिज्यक) Add. General blanger (Commercial) एन दे वे वे विविदेव/MTPC LIMITED

#### Kohima-797001.

- Chief Secretary, Government of NCT of Delhi New Secretariat Building, I.P Estate New Delhi-110002.
- Chief Secretary, Government of Orissa, General Admn. Dept. Orissa Secretariat, Bhubaneshwar-751001.
- Chief Secretary, Government of Pondicherry No. 1, Beach Roard, Pondicherry-605001.
- Chief Secretary, Government of Punjab Punjab Civil Secretariat, Chandigarh-160001.
- Chief Secretary, Government of Rajasthan Secretariat, Jaipur-302005.
- Chief Secretary, Government of Sikkim Tashiling Secretariat, Gangtok-737101.
- Chief Secretary, Government of Tamil Nadu Secretariat, Chennai-600009.
- Chief Secretary, Government of Tripura Civil Secretariat, Agaartala -799001.
- Chief Secretary, Government of Uttar Pradesh Lal Bahadur Shastri Bhavan UP Secretariat, Lucknow-226001.
- Chief Secretary, Government of Uttarakhand Uttarakhand Secretariat.

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4B Shubhash Road Dehradun-248001.

- Chief Secretary, Government of West Bengal Wriers' Building, Kolkata -700001.
- Chief Secretary,
   U.T. of Andaman & Nicobar Islands
   Secretariat, Port Blair
   Andaman 744101
- Adviser to Administrator
   U.T. of Chandigarh
   Secretariat, Sector 9
   Chandigarh 160001
- Administrator
   U.T. of Dadra & Nagar Haveli
   Secretariat, Silvasa 396230
- Administrator
   U.T. of Daman & Diu
   Fort Area, Secretariat
   Moti Daman 396220
- Administrator
   U.T. of Lakshadweep
   Secretariat, Kavaratti 682555
- State Level Environment Impact Assessment Authority Directorate of Environment, State of Uttar Pradesh Dr. Bhim Rao Ambedkar Paryavan Parisar, Vineet Khand – I, Gomati Nagar Lucknow, Uttar Pradesh PIN – 226010
- Geological Survey of India
   3<sup>rd</sup> Floor, A wing,
   Shastri Bhawan, New Delhi 110001
- Department of Geology & Mining Through Director State of Uttar Pradesh, Khanij Bhawan 27/8, Ram Mohan Rai Marg Lucknow – 226001
- Department of Irrigation Through Engineer in Chief State of Uttar Pradesh,

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अपर मासायन्यक (वाणिज्यक) Add. Genoral Managar (Commercial) एन दे वे के विभिन्देव/MIPC LIMITED New Planning Bhawan Toilibag, 3<sup>rd</sup> Floor Lucknow, PIN – 226001 Uttar Pradesh

- 40. Central Pollution Control Board Through Member Secretary Parivesh Bhawan, CBD-Cum Office Complex East Arjun Nagar, Delhi – 110032
- Uttar Pradesh State Pollution Control Board, Through the Member Secretary Picup Bhawan, 2nd Floor, B – block Vibhuti Khand, Gomiti Nagar, Lucknow – 226010
- District Magistrate, Gautam Budha Nagar, Noida, Uttar Pradesh PIN 201301
- Superintendent of Police, Gautam Budha Nagar, Noida, Uttar Pradesh PIN 201301
- 44. Ministry of Mining Shastri Bhawan, New Delhi
- Vishal Agarwal
   S/o Lt. Sri Nahar Singh
   R/o 12/10, Ashirwad Enclave
   Ballupeer, Dehradun.
- 46. Vivek Kumar Aggarwal
- Deepak Gupta
- 48. Jagannath Mane
- 49. Ministry of Environment and Forest.
- Mohit, S/o Sh. Devendra, Resident of Mandi, Mailganj Tehsil Nagina, District.
- Mrs. Muntur W/o P. Ismail R/o Puliyamthodi House, Vazhakkad Post Malapurram, Dist. Kerala.

gli

अपर चारायन्यक (वाणिरियक) Add. General Manager (Commercial) एन दी वी वी लिपिटेड /NIPC LIMITED

- Lasim C., S/o Basheer
   R/o Kodi thodina House,
   Payangadi Amsom,
   Kondotty Post,
   Malappuram Dist. Kerala
- Dr. Sarvabhoum Bangali Kacheri Road.
   Opp. Head P.O.
   Distt. Bijapur Karnataka.
- Ministry of Water Resources, New Delhi
- Santhakumar A, S/o U. Achuthan Secretary, All Kerala Quarry Association, Palakkad.
- K.M. Koyamu, S/o Modi Kattathodi Secretary, All Kerala Crusher Owner Association State Committee, Malappuram, Kerala
- Muneer, P.M. S/o Moidu Paleri Town, P.O. Kulliyati Kerala
- 58. A.K. Sasi Athimattathil House Palakkad, P.O. Palakkad District Kerala

# Counsel for Applicants:

Mr. Anand Verma, Advocate in OA No.123/2014.

Mr. Pinaki Mishra, Sr. Advocate with Mr. Rohit Gupta and Mrs. Megha Mehta Agarwal, Advs. in M.A. No. 419/2014 in OA No.123/2014.

Mr. Raj Panjwani, Sr. Advocate with Mr. Aagney Sail, Advocate in M.A. No. 529/2014 in OA No.171/2013.

Mr. Rishi Malhotra and Mr. Deepak Kaushal, Advocates in OA No.343/2013 and OA No. 279(THC)/2013.

Mr. Parikshit Nayak, Advocate in Appeal No. 23/2014

# Counsel for Respondents :

Mr. Parag P. Tripathi, Sr. Advocate along with Mrs. Megha Mehta Agarwal and Mr. Rohit Gupta, Advocates for Respondent No. 5 – 14 in OA No.123/2014

Mr. Vikas Malhotra along with Mr. P. Sahay, Advocates for MoEF in OA No.123/2014

TREATURE (WillCharps)
mental Manager (Commercial)

unable to accept the contention of the applicants that this Office Memorandum should be quashed or declared invalid in its entirety on that ground alone.

Therefore, in their application, the only prayer is that their application for grant of Environmental Clearance should be considered expeditiously to avoid any prejudice to the progress of the projects. In view of the limited prayer made in this application, it is not necessary for us to again deliberate much on this application.

- 82. We dispose of this application with a direction that SEIAA shall consider these applications filed for seeking Environmental Clearance, in accordance with law and observations made in this judgment, expeditiously and in any case within a period of three months from today.
- 83. In light of the above discussion and particularly keeping in view the persistent conflict between the State Regulations and the Central Notifications, it is imperative for us to issue directions specially to provide for an interim period, during which appropriate steps should be taken to comply with the Judgment of the Hon'ble Supreme Court and to issue Notifications which are necessary in that regard. Therefore, we pass the following order and directions:
  - I. For the reasons afore recorded, we hold and declare that the Notification dated 9th September, 2013 is invalid and inoperative for non-compliance of the statutorily prescribed procedure under the Environment (Protection) Rules, 1986 and

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for absence of any justifiable reason for dispensation of such procedure.

- II. We also hold and declare that the Office Memorandums dated 24th June, 2013 and 24th December, 2013 to the extent aforeindicated are invalid and inoperative being beyond the power of delegated legislation.
- III. All the Office Memorandums and Notifications issued by MoEF i.e. 1st December, 2009, 18th May, 2012 and 24th June, 2013 and 24th December, 2013(except to the extent afore-stated) are operative and would apply to the lease mine holders irrespective of the fact that whether the area involved is more or less than 5 hectares.
- IV.We further hold that the existing mining lease right holders would also have to comply with the requirement of obtaining Environmental Clearance from the competent authorities in accordance with law. However, all of them, if not already granted Environmental Clearance would be entitled to a reasonable period (say three months) to submit their applications for obtaining the same, which shall be disposed of expeditiously and in any case not later than six months from pronouncement of this judgment.
- V.All the States and the Ministry of Environment and Forest shall ensure strict compliance to the directions issued by the Hon'ble Supreme Court in the case of *Deepak Kumar* (supra). We direct Secretary, Ministry of Environment and Forest to hold a



meeting with the State of Rajasthan, Himachal Pradesh and Karnataka to bring complete uniformity in application of the above referred Notifications and Office Memorandums including the Notification of 2006.

- VI.We direct that in the meeting it shall also disused and appropriate recommendations be made and placed before the Tribunal, as to whether riverbed mining covering an area of less than 5 hectares can be permitted, if so, the conditions and regulatory measures that need to be adopted in that behalf.
- VII.We direct that the District Environmental Committees constituted by the respective State Governments shall not discharge any functions and grant approval as contemplated under the Notification of 2006.
- VIII. Secretary, Ministry of Environment and Forest along with such experts and the States afore-referred will also consider the possibility of constituting the branches of SEIAA at the district or at least, division levels, to ensure easy accessibility to encourage the mine holders to take Environmental Clearance expeditiously.
- IX.It is stated before us that in large number of cases, particularly in relation of State of Rajasthan, persons carrying on mining activity of minor minerals, non-coal mining and brick earth and ordinary earth have applied for obtaining Environmental Clearances in accordance with the terms and conditions of the Notification of 2006. Let all such applications be dealt with and

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orders passed by the concerned authorities at the earliest and in any case not later than six months from today.

- X.We direct the respondent authorities, particularly SEIAA, to dispose of the application of all these private respondents who have already filed applications seeking Environmental Clearance as expeditiously as possible, in any case not later than three months from today. Thus, Appeal No. 23/2014 and M.A. No. 469/2014, M.A. No. M.A No. 488/2014, 489/2014, 479/2014, 480/2014, 473/2014, 470/2014, 471/2014 and 469/2014 stand disposed of with the above directions. Till the grant of environmental clearance they would not carry out any activity of marble mining.
- XI.We dispose of Original Application No. 123/13 with a direction that SEIAA shall consider the applications filed for seeking Environmental Clearance in accordance with law and observations made in this judgment, expeditiously, and in any case within a period of three months from today.
- XII.In the meanwhile, no State shall permit carrying on of sand mining or minor mineral extraction on riverbed or otherwise without the concerned person obtaining Environmental Clearance from the competent authority.
- XIII.We direct the Ministry of Environment and Forest to issue comprehensive but self-contained Notification relating to all minor mineral activity on the riverbed or otherwise, to avoid



unnecessary confusion, ambiguities and practical difficulties in implementation of the environmental laws.

XIV.In light of the judgment of the Supreme Court and what has emerged from the various cases that are subject matter of this Judgment, we direct the Ministry of Environment and Forest to formulate a uniform cluster policy in consultation with the States for permitting minor mineral mining activity including, its regulatory regime, in accordance with law.

84. For the reasons afore stated, we dispose of the Original Applications, Appeal and Miscellaneous Applications filed by different parties in all those Original Applications and Appeal, in terms of above directions, while leaving the parties to bear their own costs.

Justice Swatanter Kumar Chairperson

> Justice M.S.Nambiar Judicial Member

> > Dr. D.K. Agrawal Expert Member

Order: This case was heard by a Bench consisting of Hon'ble

Mr. Justice Swatanter Kumar (Chairperson), Hon'ble

Mr. Justice M.S. Nambiar (Judicial Member), Hon'ble

Dr. D.K. Agrawal (Expert Member) and Hon'ble Dr. R.C.

अपर गराप्रधान्यक (वाणित्यक) Add. General Manager (Commercial) एन दे वे के लिपिटेंड /MIPC LAMTED Trivedi (Expert Member). After the judgment was reserved, but, before its pronouncement, unfortunately, Dr. R.C. Trivedi, Learned Expert Member expired and left for heavenly abode on 26th December, 2014. Thus, the present judgment is being signed only by the remaining Members of the Bench.

New Delhi 13th January, 2015



# MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

New Delhi, the 3rd November, 2009

S.O. 2804(E).—WHEREAS, by notification of the Government of India in the Ministry of Environment and Forests number S.O. 763(E), dated the 14th September, 1999 (herein fifter referred to as the said notification) issued under stock section (1), clause (v) of subsection (2) of section 3 and section 5 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government, issued directions for restricting the excavation of top soil for manufacture of bricks and promoting the utilisation of fly ash in the manufacture of building materials and in construction activity within a specified radius of one hundred kilometers from coal or lignite based thermal power plants;

AND WHEREAS, the term "fly ash" means and includes all categories or groups of coal or lignite ash generated at the thermal power plant and collected by Electrostatic Precipitator (ESP) or bag filters or other similar suitable equipments; bottom ash is the ash collected separately at the bottom of the boiler; pond ash is the mixture of ESP Fly ash and bottom ash, but, for the purpose of this notification, the term "fly ash" means and includes all ash generated such as Electrostatic Precipitator (ESP) ash, dry fly ash, bottom ash, pond ash and mound ash as the objective is to utilise all the ashes;

AND WHEREAS, there is a need for restricting the excavation of top soil for manufacture of bricks and for other works which involve use of top soil and promoting utilisation of fly ash produced by coal or lignite based thermal power plants including captive power plants and co-generation plants in the manufacture of building materials and construction activity;

AND WHEREAS, it was observed that there was a gradual increase in the use of fly ash in the manufacture of fly ash bricks or products from about 1.5 million tonne in 2002-2003 to 3.19 million tonne in 2006-2007 which needs to be further encouraged for achieving the ultimate objective of conservation of top soil and minimise environmental pollution caused due to fly ash;



AND WHEREAS, it is observed that construction agencies are yet to achieve their targets of utilization of fly ash based products even after the 31" August, 2007, the date prescribed for 100% utilisation of fly ash based products in the said notification of 1999 and it is also observed that many thermal power stations or plants are also yet to achieve the targets drawn up in their action plans;

AND WHEREAS, the representations of the brick kiln owners were considered with regard to transporting of fly ash over a long distance and also the logistics involved including the energy cost;

AND, WHEREAS, the issue has been examined by the Government of India in the Ministry of Environment and Forests;

AND WHEREAS, the Central Government is of the opinion that the said notification should be amended;

AND WHEREAS, clause (a) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986 provides that whenever the Central Government considers that prohibition or restrictions of any industry or carrying on any processes or operation in any area should be imposed, it shall give notice of its intention to do so;

AND WHEREAS, a draft of amendment to the Government of India, Ministry of Environment and Forests notification no. S.O.763 (E), dated the 14th September, 1999 duly amended vide notification No. S.O. 979 (E), dated the 27th August, 2003 (hereinafter referred to as the said notification) which the Central Government proposes to make under subsection (1) clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) dated the 6th November, 2008 side S.O. 2623 (E), inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft amendments were made available to the public.

AND WHEREAS, copies of the said Gazette were made available to the public on the day of 6th November 2008;





AND WHEREAS, the objections and suggestions received from various persons or agencies likely to be affected thereby in respect of the said draft notification have been duly considered by the Central Government in the Ministry of Environment and Forests;

Now, the refore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Acr, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following amendments to the said notification, namely:

#### AMENDMENTS

- Throughout the said notification, save as otherwise expressly provided and unless the context
  otherwise requires, for the word "ash" wherever it occurs, the words "fly ash" shall be
  substituted.
- 2. In the said notification, in paragraph 1,-
  - (a) for sub-paragraph (1), the following shall be substituted, namely:-
  - "(i) use of fly ash based products in construction activities";
- (b) for sub-paragraphs (1A) and (1B), the following sub-paragraphs shall respectively be substituted, namely:-
- "(IA) Every construction agency engaged in the construction of buildings within a radius of hundred kilometers from a coal or lignite based thermal power plant shall use only fly ash based products for construction, such as: cement or concrete, fly ash bricks or blocks or tiles or clay fly ash bricks, blocks or tiles or cement fly ash bricks or blocks or similar products or a combination or aggregate of them, in every construction project.
- (1B) The provisions of sub-paragraph (1A) shall be applicable to all construction agencies of Central or State or Local Government and private or public sector and it shall be the responsibility of the agencies either undertaking construction or approving the design or both to ensure compliance of the provisions of sub-paragraph (1A) and to submit annual returns to the concerned State Pollution Control Board or Pollution Control Committee, as applicable";
  - (c) after sub-paragraph (1B), the following sub-paragraph shall be inserted, namely:-



"(1C) Minimum fly ash content for building materials or products to qualify as "fly ash based products" category shall be as given in the Table I below:

Table I

Serial Number	Building Materials or Products	Minimum % of fly sh by weight
(1)	(2)	(3)
1.	Fly ash bricks, blocks, tiles, etc. made with fly ash, lime, gypsum, sand, stone dust etc. (without clay).	50% of total input materials
2.	Paving blocks, paving tiles, checker tiles, mosaic tiles, roofing sheets, pre-cast elements, etc. wherein cement is used as binder.	Usage of PPC (IS-1489: Part-1) or PSC (IS-455) or 15% of OPC (IS-269/8112/12269) content.
3. ~	Cement.	15% of total raw materials
4.	Clay based building materials such as bricks, blocks, tiles, etc.	25% of total raw materials.
5.	Concrete, mortar and plaster.	Usage of PPC (IS-1489: Part-1) or PSC (IS-455) or 15% of OPC (IS-269/8112/12269) content

- (d) in sub-paragraph (2), for the brackets and number "(1)", the brackets, number and letter "(1C)" shall be substituted and the number of sub-paragraph (2) shall be substituted by 1(D);
- (e) in paragraph (2A), the paragraph 1(A) shall be substituted by 1(A) and 1(B) and the amended paragraph 2(A) is to be numbered as 1(E);
- (f) for sub-paragraphs (3) and (3A), the following sub-paragraphs shall respectively be substituted, namely:—
- "(3) In case of non-availability of fly ash from thermal power plants in sufficient quantities as certified by the said power plants, within 100 km of the site, the stipulation under sub-paragraph (1A) shall be suitably modified (waived or relaxed) by the concerned State Government or Union territory Government level monitoring committee mentioned elsewhere in this notification.
- (3A) A decision on the application for manufacture of fly ash bricks, blocks and tiles and similar other fly ash based products shall be taken within thirty days from the date of receipt of the application by the concerned State Pollution Control Board or Pollution Control Committee.";
  - (g) sub-paragraphs (3B), (3C) and (3D) shall be omitted;

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- h) for sub-paragraphs (4) and (5), the following sub-paragraphs shall be substituted, namely:-
- "(4) Each coal or lignite based thermal power plant shall constitute a dispute settlement committee which shall include the General Manager of the thermal power plant and a representative of the relevant Construction and fly ash Brick Manufacturing Industry Association or Body, as the case may be and such a Committee shall ensure unhindered loading and transport of fly ash in an environmentally sound manner without any undue loss of time. Any unresolved dispute shall be dealt with by the concerned State or Union territory Government level monitoring committee mentioned elsewhere in this notification.
- (5) No agency, person or organization shall, within a radius of hundred kilometers of a thermal power plant undertake construction or approve design for construction of roads or flyover embankments with top soil; the guidelines or specifications issued by the Indian Road Congress (IRC) as contained in IRC specification No. SP: 58 of 2001 as amended from time to time, regarding use of fly ash shall be followed and any deviation from this direction can only be agreed to on technical reasons if the same is approved by Chief Engineer (Design) or Engineer-in-Chief of the concerned agency or organisation or on production of a certificate of "fly ash not available" from the thermal power plant(s) (TPPs) located within hundred kilometers of the site of construction and this certificate shall be provided by the TPP within two working days from the date of receipt of a request for fly ash, if fly ash is not available";
- (i) in sub-paragraph (6), for the words "Voids created due to soil borrow area shall be filled up with ash with proper compaction and covered with topsoil kept separately as above and this would be done as an integral part of embankment project within the time schedule of the project", the words "Voids created at soil borrow area shall be filled up with fly ash with proper compaction and covered with topsoil kept separately as above and this would be done as an integral part of embankment project" shall be substituted;
  - (i) for sub-paragraph (7), the following sub-paragraphs shall be substituted, namely:—
- "(7) No agency, person or organisation shall within a radius of hundred kilometers of a coal or lignite based thermal power plant undertake or approve or allow reclamation and compaction of low-lying areas with soil; only fly ash shall be used for compaction and reclamation and they shall also ensure that such reclamation and compaction is done in accordance with the specifications and guidelines laid down by the authorities mentioned in sub-paragraph (1) of paragraph 3.





(8)(i) No person or agency shall within fifty kilometers (by road) from coal or lignite based thermal power plants, undertake or approve stowing of mine without using at least 25% of fly ash on weight to weight basis, of the total stowing materials used and this shall be done under the guidance of the Director General of Mines Safety (DGMS);

Provided that such thermal power stations shall facilitate the availability of required quality and quantity of fly ash as may be decided by the expert committee referred in subparagraph (10) for this purpose.

(ii) No person or agency shall within fifty kilometers (by road) from coal or lignite based thermal power plants, undertake or approve without using at least 25% of fly ash on volume to volume basis of the total materials used for external during of overburden and same percentage in upper benches of back filling of opencast mines and this shall be done under the guidance of the Director General of Mines Safety (DGMS);

Provided that such thermal power stations shall facilitate the availability of required quality and quantity of fly ash as may be decided by the expert committee referred in subparagraph (10) for this purpose.

(9) The provisions contained in clauses (i) and (ii) of sub-paragraph (8) shall be applicable to all mine agencies under Government, public and private sector and to mines of all minerals or metals or items and it shall be the responsibility of agencies either undertaking or approving the external dump of overburden, backfilling or stowing of mine or all these activities to ensure compliance of provisions contained in clauses (i) and (ii) of sub-paragraph (8) and to submit annual returns to the concerned State Pollution Control Board or Pollution Control Committee as applicable.

(10) The Ministry of Coal for this purpose shall constitute an expert committee comprising of representatives from Fly Ash Unit, Department of Science and Technology, Ministry of Science and Technology, Director General of Mines Safety (DGMS), Central Mine Planning and Design Institute Limited (CMPDIL), Ministry of Environment and Forests, Ministry of Power, Ministry of Mines and the Central Institute of Mining and Fuel Research (CIMFR), Dhanbad; the Committee shall also guide and advise the back filling or stowing in accordance with the provisions contained in sub-paragraphs (8) (i), 8 (ii) and (9), and specifications and guidelines laid down by the concerned authorities as mentioned in sub-paragraph (1) of paragraph 3.





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- (11) The concerned State Government or Union territory Government shall be the enforcing and monitoring authority for ensuring compliance of the provisions of sub-paragraphs (8) (i) and (8) (ii)";
- 3. in the said notification, is paragraph 2,-
- (a) for sub-paragraphs (1), (2) and (3), the following sub-paragraphs shall be substituted, namely:—
- (1) All coal or lignite based thermal power stations would be free to sell fly ash to the user agencies subject to the following conditions, namely:—
  - (i) the pond ash should be made available free of any charge on "as is where is basis" to manufacturers of bricks, blocks or tiles including clay fly ash product manufacturing unit(s), farmers, the Central and the State road construction agencies, Public Works Department, and to agencies engaged in backfilling or stowing of mines.
  - (ii) at least 20% of dry ESP by ash shall be made available free of charge to units manufacturing fly ash or clay-fly ash bricks, blocks and tiles on a priority basis over other users and if the demand from such agencies falls short of 20% of quantity, the balance quantity can be sold or disposed of by the power station as may be possible;

Provided that the fly ash obtained from the thermal power station should be utilized only for the purpose for which it was obtained from the thermal power station or plant failing which no fly ash shall be made available to the defaulting casers.

(2) All coal and, or lignite based theories power stations and, or expansion units in operation before the date of this notification are to achieve the target of fly ash utilization as per the Table 11 given below:

Table fi

Serial Number	Percentage Utilization of Fly Ash	Target Date
(1)	(2)	(3)
1.	At least 50% of fly ash generation	One year from the date of issue of this notification.
2:	At least 60% of fly ash generation	Two years from the date of issue of this notification.
<b>5</b> .	At least 75% of fly ash generation	Three years from the date of issue of this notification.





4.	At least 90% of fly ash generation	Four years from the date of issue of this notification.
5.	100% fly ash generation	Five years from the date of issue of this notification.

The unutilised fly ash in relation to the target during a year, if any, shall be utilized within next two years in addition to the targets stipulated for those years and the balance unutilized fly ash accumulated during first five years (the difference between the generation and the utilization target) shall be utilized progressively over next five years in addition to 100% utilization of current generation of fly ash.

(3) New coal and, or lignite based thermal power stations and, or expansion units commissioned after this notification to achieve the target of fly ash utilization as per Table III given below:

Serial Fly ash utilization level Target date Number (1)(2)1. At least 50% of fly ash generation from the date One year of commissioning 2 At least 70% of fly ash generation from the date Two years of commissioning. 90% of fly ash generation 3. Three from the date of years commissioning 4. 100% of fly ash generation Four years from the date of commissioning.

Table III

The unutilised fly ash in relation to the target during a year, if any, shall be utilized within next two years in addition to the targets stipulated for these years and the balance unutilized fly ash accumulated during first four years (the difference between the generation and utilization target) shall be utilized progressively over next five years in addition to 100% utilization of current generation of fly ash.";

- (b) in sub-paragraph (4), for the words "six months", the words "four months" shall be substituted;
  - (c) for sub-paragraph (6), the following sub-paragraphs shall be substituted, namely:-
- "(6) The amount collected from sale of fly ash and fly ash based products by coal and/or lignite based thermal power stations or their subsidiary or sister concern unit, as applicable should be kept in a separate account head and shall be utilized only for development of infrastructure or facilities, promotion and facilitation activities for use of fly ash until 100 percent



fly ash utilization level is achieved; thereafter as long as 100% fly ash utilization levels are maintained, the thermal power station would be free to utilize the amount collected for other development programmes also and in case, there is a reduction in the fly ash utilization levels in the subsequent year(s), the use of financial return from fly ash shall get restricted to development of infrastructure or facilities and promotion or facilitation activities for fly ash utilization urbil 100 percent fly ash utilization level is again achieved and maintained.

(7) Annual implementation report (for the period 1" April to 31" March) providing information about the compliance of provisions in this notification shall be submitted by the 30" day of April, every year to the Central Pollution Control Board, concerned State Pollution Control Board or Committee and the concerned Regional Office of the Ministry of Environment and Forests by the coal or lignite based thermal power plants, and also be made a part of the annual report of the thermal power plant as well as thermal power plant wise information be provided in the annual report of thermal power producing agency owning more than one thermal power plant.";

### 4. in the said notification, in paragraph 3,-

(a) in sub-paragraph (2), for the words "schedules of specifications and construction applications, including appropriate standards and codes of practice, within a period of four months from the publication of this notification", the words "tender documents, schedules of specifications and construction applications including appropriate standards and codes of practice within a period of four months from the publication of this notification" shall be substituted;

### (b) for sub-paragraph (2A), the following sub-paragraph shall be substituted, namely:—

"(2A) Building construction agencies both in public and private shall prescribe the use of fly ash and fly ash-based products in their respective tender documents, schedules of specifications and construction applications, including appropriate standards and codes of practice and make provisions for the use of fly ash and fly ash based bricks, blocks or tiles or aggregates of them in the schedule of approved materials and rates within a period of four months from the publication of this notification.";

(c) for sub-paragraphs (2B) and (3), the following sub-paragraphs shall be substituted, namely:—



- "(2B) All agencies undertaking construction of roads or fly over bridges and reclamation and compaction of low lying areas, including Department of Road Transport and Highways (DORTH), National Highways Authority of India (NHAI), Central Public Works Department (CPWD), State Public Works Departments and other State Government Agencies, shall within a period of four mouths from the jublication of this notification:
  - (a) make provisions in their tender documents, schedules of approved materials and rates as well as technical documents for implementation of this notification, including those relating to soil borrow area or pit as per sub-paragraph (6) of paragraph 1; and
  - (b) make necessary specifications or guidelines for road or fly over embankments that are not covered by the specifications laid down by the Indian Road Gongress (IRC).
- (3) All local authorities shall specify in their respective tender documents, building bye-laws and regulations, the use of fly ash and fly ash-based products and construction techniques in building materials, roads embankments or for any usage with immediate effect.
- (4) The Central Electricity Authority and other approving agencies may permit the land area for emergency ash pond or fly ash storage area up to 50 hectares for a 500 MW unit, based on 45% ash content coal, or in the same proportion for units in other capacities taking into account the ash content in coal or lignite to be used.
- (5) All Financial institutions and agencies which fund construction activities shall include a clause in their loan or grant document for compliance of the provisions of this notification.
- (6) A Monitoring committee shall be constituted by the Central Government with Members from Ministry of Coal, Ministry of Mines, Ministry of Power, Central Pollution Control Board, Central Electricity Authority, Head Fly Ash Unit of Department of Science and Technology and Building Material Technology Promotion Council to monitor the implementation of the provisions of the notification and submit its recommendations or observations at least once in every six months to the Secretary, Ministry of Environment and Forests. Concerned Advisor or Joint Secretary in the Ministry of Environment and Forests will be the convener of this committee.





(7) For the purpose of monitoring the implementation of the provisions of this notification the State Governments or Union territory Government shall constitute a Monitoring Committee within three months from the date of issue of this notification under the Chairmanship of Secretary, Department of Environment with representatives from Department of Power, Department of Mining, Road and Building Construction Department and State Pollution Control Board and this Committee would deal with any unresolved issue by Dispute Settlement Committee as prescribed in sub-paragraph (4) of paragraph 1, in addition to monitoring and facilitating implementation of this notification at the respective State Government or Union territory level and this Committee would also be empowered to suitably modify (waive or relax) the stipulation under sub-paragraph (1) in case of non-availability of fly ash in sufficient quantities from thermal power plant as certified by the said power plants and the Committee will meet at least once in every quarter.

[F. No. 9-8/2005-HSMD]

G. V. SUBRAHMANYAM, Scientist 'G'

Foot Note: —The principal notification was published in the Gazette of India, Part II, Section 3, Sub-section (ii) vide notification number S.O. 763(E), dated the 14th September, 1999 and was amended vide notification number S.O. 979(E), dated the 27th August, 2003.

> Printed by the Manager, Government of India Press, Ring Road, Mayapuri, New Delhi-110064 and Published by the Controller of Publications, Delhi-110054.



- (10) संबद्ध प्राधिकारी सभी सरकारी स्कीमों वा कार्बक्रमों में, उदाहरणार्थ महात्मा गांधी राष्ट्रीय ग्रामीण रोजगार गारंटी अधिनियम, 2005 (मनरेगा), स्वच्छ भारत अभियान, शहरी और ग्रामीण आवासन स्कीम, जहां संनिर्मित क्षेत्र एक हजार वर्ग पुट से अधिक है और अवसंरचना संबंधी संनिर्माण में, जिसके अंतर्गत अभिहित औद्योगिक संपदाओं या पार्कों या विशेष आर्थिक जोतों में भवन निर्माण भी है, ऐश आधारित ईंटों या उत्पादों के आज्ञापक उपयोग को सनिश्चित करेंगे।
- (11) कृषि मंत्रालय कृषि क्रियाकलापों में ऐश के मृदा अनुकूलक के रूप में उपयोग का संबर्धन करने पर विचार कर संकेगा।\*
- 5. सभी संबद्ध प्राधिकारियों द्वारा उपरोक्त उपबंधों का अनुपालन करने की समयाविष्ठ 31 दिसंबर, 2017 है। कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, उनके द्वारा उत्पादित फ्लाई ऐस के 100 प्रतिशत उपयोग के अतिरिक्त उपरोक्त उपबंधों का अनुपालन 31 दिसंबर, 2017 से पूर्व करेंगे।

[फा. सं. 9-8/2005-एचएसएमडी] बिश्वनाथ सिन्हा, संयुक्त सचिव

टिप्पण:- मूल अधिसूचना भारत के राजपत्र, जसाधारण, भाग II, खंड 3, उप-खंड (ii) में अधिसूचना सं. का.आ. 763(अ), तारीख 14 सितंबर, 1999 द्वारा प्रकाशित की गई थी और इसमें पश्चातवर्ती संशोधन अधिसूचना सं. का.आ. 979(अ), तारीख 27 अगस्त, 2003 और का.आ. 2804(अ), तारीख 3 नवंबर, 2009 द्वारा किए गए थे।

# MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE NOTIFICATION

New Delhi, the 25th January, 2016

S.O. 254(E).—Whereas a draft of certain amendments to the Government of India in the Ministry of Environment, Forests and Climate Change number S.O. 763(E), dated the 14th September, 1999 (hereinafter referred to as the said notification) which the Central Government proposes to make under sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii), vide S.O. 1396(E), dated the 25th May, 2015 inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft amendments were made available to the public.

And, whereas copies of the said Gazette were made available to the public on 25th May, 2015;

And, whereas all the objections and suggestions received from all persons likely to be affected thereby in respect of the said draft notification have been duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following amendments to the said notification, namely:—

- In the said notification, in paragraph 1,-
  - in sub-paragraph 1(A), for the words "hundred kilometers", the words "three hundred kilometers" shall be substituted;
  - (b) in sub-paragraph (3), for the figures and letters "100 km", the words "three hundred kilometers" shall be substituted:
  - (c) in sub-paragraph (5), for the words "hundred Kilometers", the words "three hundred Kilometers" shall be substituted:
  - (d) in sub-paragraph (7), for the words "hundred Kilometers", the words "three hundred Kilometers" shall be substituted.

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### 2. In the said notification, in paragraph 2:-

#### (a) after sub-paragraph (1), the following proviso shall be inserted, namely:-

"provided further that the restriction to provide 20 % of dry ESP fly ash free of cost shall not apply to those thermal power plants which are able to utlise 100 % fly ash in the prescribed manner."

#### (b) after sub-paragraph (7), the following sub-paragraphs shall be inserted, namely:-

- "(8) Every coal or lignite based thermal power plants (including captive and or co-generating stations) shall, within three months from the date of notification, upload on their website the details of stock of each type of ash available with them and thereafter shall update the stock position at least once a Month.
- (9) Every coal or lignite based thermal power plants shall install dedicated dry ash silos having separate access roads so as to ease the delivery of fly ash.
- (10) The cost of transportation of ash for road construction projects or for manufacturing of ash based products or use as soil conditioner in agriculture activity within a radius of hundred kilometers from a coal or lignite based thermal power plant shall be borne by such coal or lignite based thermal power plant and the cost of transportation beyond the radius of hundred kilometers and up to three hundred kilometers shall be shared equally between the user and the coal or lignite based thermal power plant.
- (11) The coal or lignite based thermal power plants shall promote, adopt and set up (financial and other associated infrastructure) the ash based product manufacturing facilities within their premises or in the vicinity of their premises so as to reduce the transportation of ash.
- (12) The coal or lignite based thermal power plants in the vicinity of the cities shall promote, support and assist in setting up of ash based product manufacturing units so as to meet the requirements of bricks and other building construction materials and also to reduce the transportation.
- (13) To ensure that the contractor of road construction utilizes the ash in the road, the Authority concerned for road construction shall link the payment of contractor with the certification of ash supply from the thermal power plants.
- (14) The coal or lignite based thermal power plants shall within a radius of three hundred kilometers bear the entire cost of transportation of ash to the site of road construction projects under Pradhan Mantri Gramin Sadak Yojna and asset creation programmes of the Government involving construction of buildings, road, dams and embankments".
- In the said notification, in paragraph 2, sub-paragraph (2A) be read as sub-paragraph (15) and at the end of the said sub-paragraph, the following sub-paragraph shall be added, namely:-

"and the coal or lignite based thermal power plants located in coastal districts shall support, assist or directly engage into construction of shore line protection measures."

- In the said notification, in paragraph 3, after sub-paragraph (7), the following shall be inserted, namely:-
  - "(8) It shall be the responsibility of all State Authorities approving various construction projects to ensure that Memorandum of Understanding or any other arrangement for using fly ash or fly ash based products is made between the thermal power plants and the construction agency or contractors.
  - (9) The State Authorities shall amend Building Bye Laws of the cities having population One million or more so as to ensure the mandatory use of ash based bricks keeping in view the specifications necessary as per technical requirements for load bearing structures.
  - (10) The concerned Authority shall ensure mandatory use of ash based bricks or products in all Government Scheme or programmes e.g. Mahatma Gandhi National Rural Employment Guarantee Act, 2005 (MNREGA), SWACHH BHARAT ABIYAN, Urban and Rural Housing Scheme, where built up area is more than 1000 square feet and in infrastructure construction including buildings in designated industrial Estates or Parks or Special Economic Zone.





- (11) The Ministry of Agriculture may consider the promotion of ash utilisation in agriculture as soil conditioner."
- The time period to comply with the above provisions by all concerned authorities is 31<sup>st</sup> December, 2017. The coal or lignite based thermal power plants shall comply with the above provision in addition to 100 % utilization of fly ash generated by them before 31<sup>st</sup> December, 2017.

[F. No. 9-8/2005-HSMD]

BISHWANATH SINHA, Jt. Secy.

Note:- The principal notification was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii) vide notification S.O. 763(E), dated the 14<sup>th</sup> September, 1999 and was subsequently amended vide notification S.O. 979(E), dated the 27<sup>th</sup> August, 2003 and S.O. 2804(E), dated the 3<sup>rd</sup> November, 2009.

Fwd: Minutes of meeting of Joint Committee (JC) held on 18th April, 2019 under the Chairmanship of Shri Ritesh Kumar Singh, Joint Secretary to discuss action plan to achieve 100% fly ash utilization by the Thermal Power Plants-reg.

From: Prabhat Kumar Sinha <pksinha01@ntpc,co.in>

Thu, Jun 13, 2019 01:07 PM

@1 attachment

Subject: Fwd: Minutes of meeting of Joint Committee (JC) held on

18th April, 2019 under the Chairmanship of Shri Ritesh Kumar Singh, Joint Secretary to discuss action plan to achieve 100% fly ash utilization by the Thermal Power

Plants-reg.

To:aksrivastava03@ntpc.co.in, rkkhandekar@ntpc.co.in

सादर, प्रभात कुमार सिन्हा कार्यकारी निदेशक ( Safety, AU,EMG) NTPC Ltd

Begin forwarded message:

From: Aditya Narayan Singh <a href="mailto:aditya.narayan@nic.in">aditya.narayan@nic.in</a>>

Date: 12 June 2019 at 4:37:44 PM IST

To: pawan.kalarwal@gov.in, dirtech.moc@nic.in, gdranfce@iitr.ernet.in, ccb.cpcb@nic.in, nazim.cpcb@nic.in, cpwd\_ddg@nic.in, b.k.nayak@ospcb.org,

sudiptomondal.cea@gov.in, pksinha01@ntpc.co.in
Cc: riteshkumar.singh@nic.in, m.gangeya@gov.in

Subject: Minutes of meeting of Joint Committee (JC) held on 18th April, 2019 under the Chairmanship of Shri Ritesh Kumar Singh, Joint Secretary to discuss action plan to achieve 100% fly ash utilization by

the Thermal Power Plants-reg.

-----Email received from [External domain] from Internet. Actual Sender:-prvs=059aed21f=aditya.narayan@nic.in------

No. HSM 11/3/2018

Government of India

Ministry of Environment, Forest and Climate Change

(HSM Division)

ARX.

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अपर महाप्रधान्यक (वाणिवियक) Add. General Manager (Commercial) एन जी से में जिलिक America annua

Indira Paryavaran Bhawan Jorbagh Road

Date: 12th June, 2019

New Delhi- 110 003

Subject: Minutes of meeting of Joint Committee (JC) held on 18<sup>th</sup> April, 2019 under the Chairmanship of Shri Ritesh Kumar Singh, Joint Secretary to discuss action plan to achieve 100% fly ash utilization by the Thermal Power Plants-reg.

I am directed to forward herewith the minutes of meeting of Joint Committee (JC) held on 18<sup>th</sup> April, 2019 under the Chairmanship of Shri Ritesh Kumar Singh, Joint Secretary to discuss action plan to achieve 100% fly ash utilization by the Thermal Power Plants.

(A. N. Singh)

Scientist 'E'/Addl. Director

Encl.: as above.

To:

- Shri Pawan Kr. Kalarwal, Director, Ministry of Power, Shram Shakti Bhawan Rafi Marg, New Delhi-110001 (pawan.kalarwal@gov.in; Phone : 23710271; 23711316)
- Shri Peeyush Kumar, Director, Ministry of Coal, Shastri Bhawan, New Delhi (dirtech.moc@nic.in: Phone 011-23384884)
- Dr. G.D. Ransinchung R.N., Associate Professor, Transportation Engineering Group, Civil Engineering Department, Indian Institute of Technology, Roorkee (gdranfce@iitr.ernet.in)
- The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032. (ccb.cpcb@nic.in; Phone 22307233)
- Shri Nazimuddin, Scientist 'E', CPCB, Parivesh Bhawan, East Arjun Nagar, Delhi-110032. (nazim.cpcb@nic.in)
- Shri Harish Kumar, DDG, CPWD, Ministry of Housing and Urban Affairs, Nirman Bhawan, Maulana Azad Road, New Delhi-110011. (<u>cpwd\_ddg@nic.in</u>; Phone No.: 23062377).

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- Shri Ajay Kumar Sabharwall, GM, National Highways Authority of India, G 5&6, Sector-10, Dwarka, New Delhi - 110 075 (25074100 & 25074200)
- Shri B K Nayak, Sr. Env. Scientist, Odisha State Pollution Control Board. (b.k.nayak@ospcb.org)
- 9. Shri Sudipto Mondal, Dy. Director, TCD Div., CEA(sudiptomondal.cea@gov.in)
- 10. Shri Bhagaban Bhattacharya, Asst. Director, TCD Div., CEA (tcd.cea@gov.in)
- 11. The Executive Director, National Thermal Power Corporation, Noida.

### Copy to:

- i) PS to Joint Secretary (HSMD)
- ii) PS to Director (HSMD)

Final minutes Joint Committee Fly Ash.pdf 519 KB





Minutes of 2<sup>nd</sup> meeting of Joint Committee (JC) under the Chairmanship of Shri Ritesh Kumar Singh, Joint Secretary, (MoEF&CC) held on 17<sup>th</sup> and 18<sup>th</sup> July 2019 to discuss action plan to achieve 100% fly ash utilization by the Thermal Power Plants(TPPs).

The 2<sup>nd</sup> meeting of the Joint Committee (JC) to discuss action plan to achieve 100% fly ash utilization by the Thermal Power Plants was held in the Ministry of Environment, Forest and Climate Change (MoEF&CC) on 17<sup>th</sup> and 18<sup>th</sup> July 2019 under the Chairmanship of Shri Ritesh Kumar Singh, Joint Secretary. The list of participants of the meeting is placed at Annexure I. Representative from Ministry of Coal and Dr. G.D. Ransinchung R.N., Associate Professor, Transportation Engineering Group, Civil Engineering Department, Indian Institute of Technology, Roorkee could not attend the meeting due to unavoidable circumstances.

- 2.0 At the outset of the meeting, after a round of introduction by the members of the Expert Committee and the representatives of TPPs, the Chair welcomed all the participants and elucidated on the mandate of 100% fly ash utilization generated by thermal power plants. The Chair requested Sh. Manoj Kumar Gangeya, Director (HSMD) to further brief the agenda. Director (HSMD) apprised about the NGT orders dated 20.11.2018 and 12.03.2019. He also added that the previous meeting of Joint Committee was held on 18th April, 2019, wherein a period of 1 year to achieve 100 % utilization was agreed upon for non-compliant plants having fly ash utilization more than 85% and a period of maximum 2 years may be given to achieve 100 % fly ash utilization for non-compliant TPPs having fly ash utilization below 85%.
- 3.0 The Committee asked the representatives of TPPs to share their concerns while achieving the said target of 100% fly ash. The Committee also informed that remotely located as well as clustered TPPs should identify abandoned coal mines for fly ash backfilling and share the list with Task Force of Ministry of Power for obtaining the approval of Ministry of Coal. The CPCB has also formulated guidelines for mines backfilling in an environmentally sound manner. It was also informed that expenses incurred in fly ash disposal may be recovered from power tariff. Accordingly, CEA communicated that TPPs should submit their requests directly to CERC for reimbursement of expenses towards fly ash disposal. Further, the Thermal Power Plants were requested to give presentation on the action plan as well time frame to achieve 100% fly ash utilization. The presentations and discussions are summarized below:

### 1. TANGEDCO Thermal Power Plants

TANGEDCO informed that total 5 thermal power plants located at North Chennai – I (3x 120 MW & 630 MW), North Chennai –II (2x 600 MW), Mettur – I (4x210 MW), Mettur – II (1x600 MW) and Tuticorin (5 x210 MW) are operational. Their fly ash utilization was in the range of 39% -66% during previous FY 17-18 and FY

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18-19. The Committee noted that they have submitted the action plan for only one quarter instead of four quarters. However, the Committee decided that TPPs should submit revised quarterly action plan for 100 % utilization of fly ash by FY 20-21 including bottom ash within a week time.

# 2. Sasan Ultra Mega Power Project

Power generating capacity of Sasan Ultra Mega Power Project is 3960 MW (6 x 660 MW). During FY 17-18 and FY18- 19, fly ash utilization was in the range of 24% - 30 %. Now, Sasan Ultra Mega Power Project has submitted quarterly action plan to achieve 70 % fly ash utilization by 2019-20 and 100% utilization by FY 20-21.

# 3. Uttar Pradesh Rajya Vidyut Utpadan Nigarh (UPRVUN)

Uttar Pradesh Rajya Vidyut Utpadan Nigarh (UPRVUN) is operating four TPPs at Anpara (2630 MW), Obra (1000 MW), Harduanganj (610 MW) and Parochha. They informed that fly ash utilization was less than 15 % in Anpara and Obraa TPPs during 2017-18 and 2018-19. Whereas fly ash utilization was around 90 % in Harduanganj and around 87 % in Parichha. The Committee noted that they have submitted action plan for only one quarter instead of four quarters. However, the Committee decided that the TPP should submit revised quarterly action plan for 85 % utilization of fly ash by FY 19-20 and 100 % fly ash utilization by FY 20-21 within a week time.

# 4. APCPL - Indira Gandhi Super Thermal Power Project

Power generating capacity of APCPL – Indira Gandhi Super Thermal Power Project is 1500 MW. Fly ash utilization was 69.93 % during FY 17-18 and 103.4 % during FY 18-19. They informed that APCPL has achieved 100 % fly utilization in the FY 18-19. They have also submitted quarterly action plan to achieve 100 % fly ash utilization for the FY 19-20.

### 5. Jhabua Power Ltd.

Power generation capacity of Jhabua Power Ltd. is 600 MW. Fly ash utilization was 67 % during FY 17-18 and 70 % during FY 18-19. The Committee noted that they have submitted the quarter wise action plan for 81.38 % fly ash utilization instead of 100 %. They have also submitted quarterly action plan to achieve 80 % fly ash utilization in FY 19-20 and 100 % fly ash utilization in FY 20-21.

### 6. NTECL

Power generation capacity of NTECL. is 1500 MW. Fly ash utilization was 64 % during FY17-18 and 67 % during FY 18-19. They informed that they will achieve 81 % fly ash utilization by FY 19-20 and 100 % fly ash utilization will be achieved by

अपर नसम्बन्धक (वाणिदियक) Add. General Manager (Commercial) एन टी बी जिलिट Affret (Lattre) FY 20-21.

# 7. Odisha Power Generation Corporation Ltd. (OPGC)

Power generation capacity of OPGC. is 420 MW. Fly ash utilization was 55 % during year 2017-18 and 33 % during 2018-19. The Committee noted that they have submitted the quarter wise action plan for 60 % fly ash utilization instead of 100 % in the year 2019-20. They informed that they will achieve 100 % utilization in the year 2023-24. However, the Committee decided that the TPP should submit revised quarterly action plan for 85 % utilization of fly ash by FY 19-20 and 100 % fly ash utilization by FY 20-21.

# 8. West Bengal Power Development Corporation Limited

West Bengal Power Development Corporation Limited (WBPDCL) is operating Thermal Power Plants at Sagardighi (1600 MW) and Bakreswar (5x 120 MW). They informed that fly ash utilization by the Bakreswar Thermal Power Station was 99.38 % in 2017-18 and 116.98 % in 2018-19. However, fly ash utilization by Sagardighi Thermal Power Plant was 65.54 % in 2017-18 and 93 % in 2018-19. The Committee noted that there is improvement in fly ash utilization and also Sagardighi Thermal Power Plant has submitted fly ash utilization action for 75 % in 2019-20 and 96 % in 2020-21. However, the Committee decided that the TPP should submit revised quarterly action plan for 85 % utilization of fly ash including bottom ash by FY 19-20 and 100 % fly ash utilization by FY 20-21.

# 9. O P Jindal Super Thermal Power Plant Stage-I (Jindal Power Limited)

Jindal Power Limited is operating O P Jindal Super Thermal Power Plant TPP Stage – 1 (1000 MW) and TPP Stage – II (2400 MW). Fly ash utilization of both TPPs Stage – I and II was 75 % in 2017-18 and 102 % in 2018-19. They have also submitted action plan for achieving 100 % fly ash utilization in 2019-20.

# 10.Damodar Valley Corporation (DVC)

DVC is operating 5 thermal power plants namely, Bokaro Thermal Power Station (BTPS; 710 MW), Durgapur Thermal Power Station (DTPS; 210 MW), Durgapur Steel Power Station (DSTPS; 1000 MW), Koderma thermal power Station (KTPS; 1000 MW), Raghunathpur thermal power Station (RTPS; 1200 MW). Fly ash utilization by BTPS was 82.20 % in 2017-18 and 36.12 % 2018-19. Fly ash utilization by DTPS was 4.5 % in 2017-18 and 8.5 % 2018-19. Fly ash utilization by DSTPS was 76 % in 2017-18 and 76 % in 2018-19. Fly ash utilization by RTPS was 71.69 % in 2017-18 and 98 % in 2018-19. Fly ash utilization by RTPS was 2.5 % in 2017-18 and 9.7 % in 2018-19. They have submitted quarter wise action plan for 100 fly ash utilization by BTPS for 2019-20; 97 % fly ash utilization by RTPS; 86 % fly ash utilization by DTPS and 28 % fly ash utilization by RTPS. Therefore, the

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Committee suggested them to submit revised quarterly action plan to achieve 100 % fly ash utilization for KTPS, DTPS, DSTPS and RTPS.

# 11. Telangana State Power Generation Corporation Limited (TSPGCL)

Telangana State Power Generation Corporation Limited (TSPGCL) is operating 4 Thermal Power Plants namely Ramagundam 'B' (62.5 MW), Kothhagudem thermal power station Stage – V & VI(1000 MW), Paloncha (720 MW) and Kakatiya (600 MW). TPP Ramagundam has achieved 69 % fly ash utilization in 2017-18 and 126 % in 2018-19. Fly ash utilization by TPP, Kakatiya was 75 % in 2017-18 and 100 % in 2018-19. They also informed that Ramagundam TPP and Kakatiya TPP will achieve 100 % fly ash utilization in 2019-20. Fly ash utilization by Kathagudam TPP V & VI was 6 % in 2017-18 and around 20 % in 2018-19. Fly ash utilization by Kathagudam TPP, Paloncha was 33.8 % in 2017-18 and 41.2 % in 2018-19. The Committee noted that submitted action plan for Kathagudam TPP and Paloncha TPP is not as per format. Therefore, the Committee decided that both TPPs should submit revised quarterly action plan for 85 % utilization of fly ash including bottom ash by FY 19-20 and 100 % fly ash utilization by 20-21.

# 12.Karnataka Power Corporation Limited (KPCL)

Karnataka Power Corporation Limited (KPCL) is operating 3 TPPs namely Raichur Thermal Power Plant (1720 MW), Ballari Thermal Power Pant (1700 MW) and Yeramarus Thermal Power Plant (1600 MW). Raichur Thermal Power Plant has achieved 57.18 % and 70.14 % fly ash utilization in 2017-18 and 2018-19 respectively. Ballari Thermal Power Station has achieved 50 % and 73 % fly ash utilization in 2017-18 and 2018-19 respectively. Fly ash utilization by the Yeramarus Thermal Power Plant was 0 % in 2017-18 and 32 % in 2018-19 respectively. KPCL informed that 100 % fly ash utilization will be achieved by Ballari and Yeramarus TPPs in 2019-20 and also submitted quarter wise action plan. The Committee noted that KPCL has submitted action plan to achieve 87 % fly ash utilization by the Raichur Thermal Power Plant in 2019-20. However, the Committee decided that the Raichur Thermal Power Plant should submit revised quarterly action plan for 85 % utilization of fly ash including bottom ash by FY 19-20 and 100 % fly ash utilization by FY 20-21.

# 13. Hinduja National Power Corporation Limited (Andhra Pradesh)

Power generating capacity of TPP is 1040 MW. Fly ash utilization by TPP was 18 % in 2017-18 and 256 % in 2018-19 respectively. They have also submitted action plan to achieve 69 % fly ash utilization in 2019-20 and 100 % fly ash utilization in 2020-21.

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# 14.Bajaj Energy Limited (BEPL)

Bajaj Energy Limited (BEPL) has 5 TPPs with total power generation capacity of 450 MW at Barkhera, Khambrt Khera, Kunarki, Maqsoodapur and Utraila, UP. Fly ash utilization by all 5 TPPs was 99 % in 2017-18 and 100 % in 2018-19 respectively. They have also submitted action plan for achieving 100 % fly ash utilization in 2019-20.

# 15.Kanti Bijlee Utpadan Nigam

Power generation capacity of the TPP is 610 MW. They informed that percentage fly utilization by the TPP was 34 % and 40 % in 2017-18 and 2018-19. Now, they have submitted quarterly action plan for 72 % fly ash utilization in 2019-20 and 100% in 2020-21.

# 16. Andhra Pradesh Power Development Corporation Limited (APPDCL)

APPDCL is operating Sri Damodaran Sanjeevaiah Thermal Power Station with capacity of 1500 MW. This unit has achieved 75 % and 65 % fly ash utilization in 2017-18 and 2018-19 respectively. They informed that fly ash is being used in nearby brick industry, clicker manufacturing, export. They have submitted quarter wise action plan for 70 % fly ash utilization for 2019-20. However, the Committee decided that TPP should submit revised quarterly action plan for 85 % utilization of fly ash including bottom ash by FY 19-20 and 100 % fly ash utilization by FY 20-21.

# 17. Gujarat State Electricity Corporation Limited (GSECL)

Gujarat State Electricity Corporation Limited (GSECL) is operating 2 TPPs namely Ukai (1100 MW) and Wanakbori Thermal Power Pant (147 MW). Ukai TPS has achieved 75 % and 82 % in 2017-18 and 2018-19 respectively. Wanakbori Thermal Power Pant has achieved 84 % and 60 % fly ash utilization in 2017-18 and 2018-19 respectively. GSECL has submitted quarter wise action plan for Ukai to achieve 85 % in 2019-20 and 100 % in 2020-21. Wanakbori TPP will achieve 100 % fly ash utilization in FY 19-20.

# 18.HPGCL (Rajiv Gandhi Thermal Power Plant)

Power generation capacity of the TPP is 1200 MW. They informed that percentage fly utilization by the TPP was 84.8 % and 60 % in 2017-18 and 2018-19. They informed that there is no cement plant nearby the TPP and also not receive any response from NHAI for fly ash utilization. But they have planned to utilize their fly ash for brick manufacturing, clinker manufacturing etc. Now, they have submitted

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वापर महाप्रचन्धक (दाणिचिका) Add. General Manager (Commercial) पर में से में क्रिकिंग स्वापाद समादान quarterly action plan to achieve 100 % fly ash utilization in 2019-20.

# 19.MSPGCL (Bhusawal Thermal Power Station)

Power generation capacity of the TPP is 1210 MW. They informed that percentage fly utilization by the TPP was 85 % and 95 % in 2017-18 and 2018-19. Bhusawal Thermal Power Station has submitted action plan to achieve 95% for 2019-20. However, the Committee decided that TPP should submit revised quarterly action plan for 100 % utilization of fly ash including bottom ash by FY 19-20.

# 20.Rosa Power Supply Co. Ltd.

Power generation capacity of Rosa Power Supply Co. Ltd. is 1200 MW. They informed that percentage fly utilization by the TPP was 76 % and 100 % in 2017-18 and 2018-19 respectively. They informed that Rosa Power Supply Co. Ltd. has achieved 100 % fly ash utilization in 2018-19 and they will also achieve 100 % fly ash utilization in 2019-20.

# 21.Spectrum Coal & power Ltd.

Power generation capacity of the TPP is 100 MW. They informed that percentage fly utilization by the TPP was 86 % and 77 % in 2017-18 and 2018-19 respectively. Now, they have submitted quarterly action plan to achieve 100 % fly ash utilization by 2019-20.

### 22.Maruti Clean Coal and Power Ltd.

Power generation capacity of the TPP is 300 MW. They informed that percentage fly utilization by the TPP was 93 % and 100 % in 2017-18 and 2018-19 respectively. They are using fly ash in road project. Now, they have submitted quarterly action plan to achieve 100 % fly ash utilization by 2019-20.

### 23.ACB India Limited

Power generation capacity of the TPP is 270 MW. They informed that percentage fly utilization by the TPP was 100 % in 2017-18 and 2018-19. Now, they have submitted quarterly action plan to achieve 100 % fly ash utilization by 2019-20.

# 24.TRN Energy Pvt. Ltd.

Power generation capacity of the TPP is 600 MW. They informed that percentage fly utilization by the TPP was 76 % and 92 % in 2017-18 and 2018-19 respectively. They informed that there is no cement manufacturing unit within radius of 100 km from TPP and also no response has been received from NHAI regarding utilization

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of fly ash in road project. Now, they have also submitted quarter wise action plan for 2019-20 to achieve 93 % fly ash utilisation. However, the Committee decided that TPP should submit revised quarterly action plan for 100 % utilization of fly ash including bottom ash by FY 19-20.

### 25. Jindal Steel & Power Ltd.

Jindal Steel & Power Ltd. is operating 3 TPPs namely Thermal Captive Power Dongamahua, Chattisgarh (576 MW), Captive Power Plant, Raigarh (134 MW) and Captive Power Plant, Angul (810 MW). They informed that fly ash utilization by TPP Dongamahua and Raigarh was 100% in 2017-18 and 2018-19. Representative of TPP informed that they are utilizing fly ash in their working mines successfully. CPCB praised their efforts and informed that DGMS approved the backfilling in operation mines. The Committee suggested them to share their experience with the Committee as well as other TPPs. But fly ash utilization by TPP Angul was 98 % and 97 % in 2017-18 and 2018-19 respectively. Now, they have submitted quarterly action plan to achieve 100 % fly ash utilization by 2019-20.

# 26.R K M Powergen Pvt. Ltd.

Power generation capacity of the TPP is 1440 MW. They informed through e-mail that fly ash utilization was 90 % in year 2017-18 and 2018-19. Now, they have submitted quarterly action plan to achieve 100 % fly ash utilization by 2019-20.

# 27.KSK Mahanadi Power Company Limited, Village Nariyara, Janjgir Champa District, Chhattisgarh

KSK Mahanadi Power Company Limited has total installed capacity of 3600 MW (1800 MW operational and 1800 MW under construction). Unit III and Unit IV have achieved 100 % fly ash utilization in 2017-18 and 2018-19. However, Unit – II has achieved 50 % fly ash utilization in 2017-18 and 70 % in 2018-19. It was informed that unit II has started commercial operation on 26.08.2018. They have informed that Unit – III and Unit- IV will achieve 100 % fly ash utilization in 2019-20. The Committee noted that they have not submitted action plan for Unit II to achieve 100 % fly ash utilization. Therefore, the Committee suggested that the TPP should submit quarterly action plan for Unit II to achieve 85 % utilization of fly ash including bottom ash by FY 19-20 and 100 % fly ash utilization by 20-21.

# 28. Andhra Pradesh Power Generation Corporation (APGENCO)

APGENCO is operating 1650 MW Rayalaseem Thermal Power Project. Fly ash utilization by the TPP was 74 % and 84 % in 2017-18 and 2018-19 respectively.

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अपर नसम्बन्धक (चणिजिक्क) Add. General Manage (Commercia) महारी के सिक्किय तमार महान्यन Now, they have also submitted quarter wise action plan for 2019-20 to achieve 90 % fly ash utilisation. However, the Committee suggested that the TPP should submit quarterly action plan for 90 % utilization of fly ash including bottom ash by FY 19-20 and 100 % fly ash utilization by FY 20-21.

#### 29.Sai Wardha Power Generation Ltd.

Power generation capacity of the TPP is 540 MW. Fly ash utilization by the TPP was 96 % and 91 % in 2017-18 and 2018-19 respectively. They informed that the said TPP will not be operational during 2019-20.

#### 30. Tata Power Corporation (Jharkhand)

The Committee noted that Tata Power Corporation has submitted their action plan to achieve 100 % fly ash utilization in the 1st meeting of the Joint Committee.

4.0 The Committee noted that many Thermal Power Plants have not attended the meeting of Joint Committee. Therefore, it was decided that TPPs which have not attended the said meeting and also not submitted the action plan to achieve 100 % fly ash utilization by 2020-21 of their TPPs should be communicated to submit the action plan to achieve 100 % fly ash utilisation by FY 2020-21 urgently.

#### (Action: CPCB, MoEF&CC & TPPs)

- 5.0 In the meeting of Joint Committee held on 18.04.2019, wherein it was decided that "CPCB would come out with the mechanism to determine the quantum of penalty based on (per Ton or percentage basis) to be paid for violation. Accordingly, CPCB has submitted a draft proposal for determining environmental compensation (EC). The draft proposal will be discussed in the meeting of Joint Committee and based on the recommendations, the Ministry will take necessary decision on the matter.
- 6.0 In the meeting of Joint Committee held on 18.04.2019, the Committee suggested NTPC to submit revised action plan for 100 % fly ash utilization for their category 'B' Thermal Power Stations namely, Mouda, Kudgi, Bongaigaon, Farakka and Barh as well as Category 'C' Thermal Power Stations namely Singrauli, Rihan, Vindyachal, Kahalgaon, Talchar-K, Korba and Sipat. Accordingly, for category B TPPs, NTPC has submitted action plan to achieve 100 % fly ash utilization by 2020-21 and for Category 'C' TPPs by 2021-22. Therefore, the Committee decided that NTPC should submit revised quarterly action plan for Category 'C' TPPs to achieve 85 % utilization of fly ash including bottom ash by FY 19-20 and 100 % fly ash utilization by FY 20-21.

The meeting ended with vote of thanks to the Chair.

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#### Annexure - I

### List of Participants

#### A. Joint Committee

- Shri Manoj Kumar Gangeya, Director, HSMD, Ministry of Environment, Forest and Climate Change
- 2. Sh Nazimuddin, Scientist 'E', CPCB (17.07.2019)
- 3. Sh. A N Singh, Scientist 'E', MoEF&CC
- 4. Dr. P.K.Prusty, Chief Environment Scientist SPCB, Odisha (17 & 18.07.2019)
- 5. Shri S K Paliwal, Scientist 'D', CPCB (18.07.2019)
- Shri Bhanu Joshi, Section Officer MoP (17 & 18.07.2019)
- Shri Bhagaban Bhattacharya, TCD, CEA(17 & 18.07.2019)
- Sri Vijender Singh, TCD, CEA(17 & 18.07.2019)

#### B Thermal Power Plants (17.07.2019)

- 1. Shri Jaswal Singh, AE, PTPP Parichha Jhansi
- 2. Shri N.K. Maurya, EE, PTPP
- 3. Shri Mohammed Rashid, EE, PTPP, Anpara
- 4. Shri Ravi Prakash Yadav, EE, PTPP, Anpara
- 5. Shri Rajeev Kumar, EE, Obra TPS
- 6. Shri Jabar Singh, SE Civil HTPS Harduagani Aligarh
- 7. Shri Diwakar Swaroop, S.E (E&S) UPRVUNL, Lucknow
- 8. Shri P. S. U. Nair, AGM (EMR), NTECL, Chennai
- 9. Shri D. Sarkar, CEO, NTECL, Chennai
- 10. Shri T. Narayan, C&I Civil TSGENCO
- 11. Shri G.Srinivasa Rao
- 12. Shri G. Raysen
- 13. Shri S. Sangamnerkar
- 14. Shri Anoop kumar
- 15, Shri D. Mohan Raj, TANGEDCO (Tamil Nadu)
- Shri M. M. Maha Lakshmi, Asst. Exe. Engineer/ Civil TANGEDCO (Tamil Nadu)
- 17. Shri Md. Eyasin, Chief Engineer I DVC
- Shri Arritava roy Chowdhury, Chief Engineer I (EM&PL)
- 19. Shri R. K. Chander, APCPL, Jhajjar
- 20. Shri J.Ramarao
- 21. Shri Araun Krishna
- 22. Dr. Lokesh Singhal, Bajaj Energy
- 23. Shri Balbir Singh, Advisor Power, LPGCL
- 24. Dr. J. K. Soni, JSPL
- 25. Shri Yogesh Kumar, JSPL
- 26. Shri Rajan Ananad, JSPL

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- 27. Shri B Govinda Rao
- 28. Shri Dipak Nath Kanti, NTPC
- 29. Shri V.K.Pandey, Sr. Manager(EMG) KBUNL, Muzaffarpur
- 30. Shri Bejaya Kumar Mishra, Sr. General Manager, OPGC Ltd.
- 31. Shri Umakanth Pahi, General Manager (BHS) Ib Thermal Power Station, OPGC Ltd.,
- 32. Shri Rupa Charan Padhy, VP HNPCL
- 33. Shri Abhijit Nandi, TPP, WBPDCR DGM, Env. & Safety
- 34. Shri Jnanendra Narayan Mondal, SM (Env) & IC, Corporate Office, WBPDCL
- 35. Shri Ashok Kumar Mondal, Dy. General Manager (E&S)
- 36. Shri R. Balasubramanian, Company Secretary, KPCL
- 37. Shri Bhuvanesh G.D. AEE, KPCL
- 38. S.N.Sharma, KPCL
- 39. Bijan Mishra, Sr. VP- Reliance Power

#### (18.07, 2019)

- 40. Shri M. V. R. N Acharyulu, Sr. Deputy General Manager KSK Mahanadi Power Limited
- 41. Shri Nilesh kumar B. Shinde, JE, Bhusawal, MSPGCL
- 42. Dr. J.K.Soni (EVP), Jindal Steel & Power Ltd.
- 43. Shri Yogesh Sindhu (Manager), Jindal Steel & Power Ltd.
- 44. Er. Tinku Goyal, Asst. Executive HPGCL, Hisar
- 45. Shri Shanti Das Bhattacharje, Head (Chemical & Environment) Tata Power Jamshedpur
- 46. Shri D. M. Patel, Exc. Engr. (Ash Handling Plant) GSECL, UkaiTPS, Gujarat
- 47. Shri S.S.Passi, S.E., Wanokbori TPS GSKCL, Wanokbori Gujarat.
- 48. Shri A. B. Jaiswal, E.E (Env.) GSECL, Corporate Office, Vadodara
- 49. Shri H. J. Patel, DE (Fly ash Cell) GSECL, Corporate Office, Vadodara
- 50. Shri Bijan kumar Mishra, Sr. VP- Reliance Power
- 51. Shri R. Raju EE/Tech/RTPP
- Ch. Krishna Prasa, DYEE/APPDCL
- 53. Shri C. P. Malik, COO, TRNEPL, Rajgarh
- 54. Shri Vijay Gupta, COO-ACB+ MCCC
- 55. Shri Tushar Ahlawat, Environment Department, ACB India Ltd.

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## Guidelines for Continuous Emission Monitoring Systems





#### **CENTRAL POLLUTION CONTROL BOARD**

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

> August, 2018 Revision-01

Note: Efforts have been made to include all available monitoring technologies/instrumentation in the document. In case any high end technology/ instrumentation is not covered or is introduced subsequently the details be forwarded to CPCB, so that the same can be incorporated while reviewing this document subsequently.

#### **List of Contributors:**

- 1. Shri Aditya Sharma, Sc. 'D'
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   Shri. M. K. Biswas, Sc. 'D'
- 4. Shri. Abhijit Pathak, Sc. 'C'
- 5. Ms. Namita Mishra, Sc. 'C'

#### **Technical Guidance:**

Shri J.S. Kamyotra, Ex-Director, CPCB



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#### 1.0 BACKGROUND

In order to track release of pollutants through air emissions and effluent discharge from industries with high pollution potential, Central Pollution Control Board (vide its letter No. B-29016/04/06PCI-1/5401 dated 05.02.2014 issued directions under section 18(1) b of the Water and Air Acts to the State Pollution Control Boards and Pollution Control Committees for directing the 17 categories of highly polluting industries (such as Pulp & Paper, Distillery, Sugar, Tanneries, Power Plants, Iron & Steel, Cement, Oil Refineries, Fertilizer, Chloral Alkali Plants, Dye & Dye Intermediate Units, Pesticides, Zinc, Copper, Aluminum, Petrochemicals and Pharma Sector, etc.,), Common Effluent Treatment Plants (CETP), Sewage Treatment Plants (STPs), Common Bio Medical Waste and Common Hazardous Waste Incinerators; for installation of online effluent quality and emission monitoring systems. The directions envisage:

- a) Installation of online emission quality monitoring system in 17 categories of highly polluting industries and in Common Hazardous waste and Biomedical waste incinerators for measurement of the parameters, Particulate Matter, NH<sub>3</sub> (Ammonia), SO<sub>2</sub> (Sulphur Dioxide), NO<sub>X</sub> (Oxides of Nitrogen) and other sector specific parameters, not later than by March 31, 2015 and transmission of online data so generated simultaneously to SPCB/PCC and CPCB as well. The deadline was later extended to June 31, 2015.
- b) Installation of surveillance system with industrial grade IP (Internet Protocol) cameras having PAN, Tilt, Zoom (PTZ) with leased line real time connection for data streaming and transmission of the same in case of industries claiming Zero Liquid Discharge (ZLD); and
- c) Ensure regular maintenance and operation of the online system with tamper proof mechanism having facilities for online calibration (onsite/ offsite; Remote).

In addition to above, G.S.R. 96(E) January 29, 2018 Notified by MoEF&CC under Environment (Protection) Act, 1986 mandates installation of CEMS with the Boilers used in the Industries namely Sugar, Cotton Textile, Composite Woolen Mills, Synthetic Rubber, Pulp & Paper, Distilleries, Leather Industries, Calcium Carbide, Carbon Black, Natural

Rubber, Asbestos, Caustic Soda, Small Boilers, Aluminium Plants, Tanneries, Inorganic Chemicals & other such industries using boilers.

Parameters required to be monitored in the stack emissions using Continuous Emission Monitoring system, are industry specific and are specified below: -

- a) PM (Particulate Matter)
- b) HF (as Total Fluoride)
- c) NH<sub>3</sub> (as Ammonia)
- d) SO<sub>2</sub> (Sulphur Dioxide)
- e) NO<sub>X</sub> (Oxides of Nitrogen as NO<sub>2</sub>)
- f) Cl<sub>2</sub> (Chlorine)
- g) HCI (Hydrochloric acid) and HF (Hydro Fluoric Acid)
- h) TOC (Total Organic Carbon) / THC (Total Hydro Carbon) / VOC (Volatile Organic Carbon)- CnHm
- i) Hg (Gaseous mercury)
- j) Process parameters (Mandatory) to be monitored at each stack at sampling point/plane:
  - 1 Temperature
  - 2 Flow (applicable wherever load based standards prescribed and DC Tribo system installed for monitoring of PM)
- k) Diluents gas CO<sub>2</sub> or O<sub>2</sub> as prescribed in the emission standards of respective processes /industries
- Carbon Monoxide as prescribed in the emission standards of respective processes /industries i.e. Incinerators, etc.;
- m) The emission values should be corrected for Moisture Content (For Insitu and Hot extractive analyzer real time moisture monitoring values of inbuilt measurements can be used). Moisture content value recorded during manual monitoring conducted by empaneled labs, at the time of verification/calibration can be considered for correction.
- n) For normalization of emission values absolute pressure is also required to be monitored in the sampling plane. Value recorded during manual monitoring can be used for normalization.
- o) Real time moisture monitoring is incinerator stack.



#### 2.0 NEED FOR CEMS

Industries such as Power, Cement, Iron & Steel, Chlor-alkali, Pharmaceuticals, Fertilizers, Refineries, Pesticides, Distilleries, Sugar, Pulp & Paper, Textile, Tanneries, and other categories of industries release large quantum of pollutants through air emissions and effluent discharge.

In order to regulate such emissions and discharges to safe limits, SPCBs and PCCs have prescribed standards for various pollutants emitted/ discharged by the industries as notified under the Environment(Protection) Act, 1986. Compliance monitoring needs strengthening to ensure that industries and facilities comply with emission standards.

With rapid industrialization, it is becoming a need and necessity to regulate compliance by industries with minimal inspection of industries. Therefore, efforts need to be made to bring discipline in the industries to exercise self-monitoring so as impart confidence on their compliance to notified standards; one such mechanism is to implement online emission and effluent monitoring systems and transfer reliable data on compliance to regulatory authorities (SPCBs/PCCs / CPCB, other government agencies). Online emission and effluent monitoring systems need to be installed and operated by the developers and the industries on 'Polluter Pays Principle'.

Verification, validation and accuracy check of the values indicated by the online devices needs to be done. For proper interpretation of data, measures need to be taken at the level of SPCBs/PCCs. For regulatory and for purpose of actions to be taken against non-complying industries/facilities, the existing method of sampling, analysis and related procedures under the existing statutes need to be continued, till further direction.

Various technologies are available for monitoring the particulate matter and gaseous emission from the stacks of industries and effluent discharge from industries and facilities for the parameters specified in the directions issued by CPCB/SPCB or notified under E(P) Act, 1986. However, this guideline document aimed to help industries and regulatory agencies in implementation of online emission monitoring system through proper selection, operation and

data transfer in a transparent self-regulatory mechanism.

#### 3.0 CONTINUOUS EMISSION MONITORING SYSTEM (CEMS)

In recent years Online Emission Monitoring Technology has received attention and interest in context of providing accurate and continuous information on particulate matter/ gaseous emission from stacks. There are already commercially available systems for monitoring parameters such as PM, HCl, HF, NH<sub>3</sub>, SO<sub>2</sub>, CO, O<sub>2</sub>, CO<sub>2</sub>, NOx, VOC, etc.

#### 3.1 Objectives of Continuous Emission Monitoring Systems

The Continuous Emission Monitoring (CEM) System comprises of all the equipment necessary to determine the concentration of gaseous emission and/or particulate matter and/or emission rate using analytical measurements and a computer program to provide results in units of the applicable emission limits or standards. The data generated is gathered either through analog outputs to a recording system or send directly to a DAS (Data Acquisition System) for storage and onward transmission.

Data Acquisition System includes special modules for data validation and further transmission to Central severs located at SPCB/ CPCB through a cloud server compatible to specific types of analyzers. It is important to have properly engineered CEM systems.

#### i) Compliance with legislation

For any given process, limits have been imposed on the quantum of emissions that an industry is permitted to release to the atmosphere for a particular parameter/ pollutant. These limits are expressed as: -

- Maximum concentration in ppm or mg/Nm<sup>3</sup> (as specified in standards)
- Maximum mass emission (Kg/Tonne or Kg/unit production)

For calculating maximum mass emissions i.e, Kg/Tonne or Kg/unit production, values of flow and concentration are required.

CEMS data shall be used as tool to monitor performance of pollution control systems as well as to generate alarms on exceedances with respect to notified standards (for manual measurement). CEMS data will be used for regulatory purposes once CEMS based standards are notified by Government of India. However, at present CEMS data would

help regulatory bodies in close surveillance on industries based on alarm system.

#### ii) Validity/ Availability of Measured Data

Quality assurance procedures shall be used to validate the quality of data produced by the CEMS required for comparing compliance with notified standards (for manual measurement). Reference methods will be defined to substantiate the accuracy and precision of the CEMS.

Performance Specifications will be used for evaluating the acceptability of the CEMS at the time of or soon after installation and whenever specified in the Indian regulations. The CEMS has to include continuous quality check for Zero and for scale(Span) point, preferably without human intervention, to ensure continuous data validity and credibility.

Zero check on Gaseous CEMS must be achieved, by using zero air supply using high grade instrument air (free from moisture, component of gases under measurement and gases having interference) or an inert gas like N<sub>2</sub>, done automatically and periodically. The Instrument supplier is responsible for verification of zero gas / instrument air being used in the industry. A certificate to this affect has to be provided by the instrument supplier to the industry at the time of installation.

Use of Certified Zero & Span Test Gas Cylinders or Gas filled "Calibration Cuvette / Cells", Certified by leading global Agencies like TUV/ MCERT are also acceptable for CEMS in India. Cuvette/ Cells known to have long term stability compared to cylinders can also be used for calibration. Ambient air not being a certified gas is not recommended for calibration.

#### iii) Basic Requirement

The major prerequisites of efficient Continuous Emission Monitoring System are:

- a) It should be capable of operating unattended over prolonged period of time.
- b) It should produce analytically valid results with precision/ repeatability
- c) The analyzer should be robust and rugged, for optimal operation under extreme environmental conditions, while maintaining its calibrated status.



- d) The analyzer should have inbuilt zero check capability or external capability with a condition that no human intervention should be required to carryout daily check at defined time.
- e) It should have data validation facility with features to transmit raw and validated data to central server at SPCB/CPCB. The data validation will be done after approval of SPCB/PCC or after 07 days of submission of request for validation to SPCB/PCC wherever is earlier.
- f) It should have Remote system access from central server for provisional log file access. The facility shall be incorporated in the system within 06 months of the issue of these 1<sup>st</sup> Revised Guidelines.
- g) It should have provision for simultaneous Multi-server data transmission from each station without intermediate PC or plant server.
- h) It should have provision to send system alarm to central server in case any changes are made in configuration or calibration. The facility shall be incorporated in the system within 06 months of the issue of these 1st Revised Guidelines.
- i) It should have provision to record all operational information in log file.
- j) There should be provision for independent analysis, validation, calibration & data transmission for each parameter.
- k) The instrument must have provision of a system memory (non-volatile) to record data for atleast one year of continuous operation. Existing instruments not having adequate system memory shall be backed up with external devices within six months. All new instruments installed shall have inbuilt provision of system memory.
- It should have provision of Plant level data viewing and retrieval with selection of Ethernet, Modbus & USB.
- m) Record of calibration and validation should be available on real time basis at central server from each location/parameter.
- n) Record of online diagnostic features including analyzer status should be available in database for user-friendly maintenance.
- o) It must have low operation and maintenance requirements.

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iv) The analyzer must include the following features (typical



characteristics):

- a) Continuous measurements on 24x7 basis.
- b) Direct Measurement of pollutant concentration.
- c) Expression and display of measurements in ppm, mg/m³ or volume
   % as specified in standards.
- d) Display of the measurement values as well as all the information required for checking/maintenance of the analyzer.
- e) Display of functional parameters.
- f) Response time < 200 seconds.
- g) Power supply compatible with utilities available on Indian industrial sites.
- h) Digital communication with distant computer for data acquisition/recording/reporting.
- i) RS232 / RS485 / Ethernet / USB communication ports.
- j) Analog Outputs for transmission to Plant's supervision center.
- k) Maximum lifetime of analyzers should be restricted to expected life period specified by the Vendors or up on the perusal of deterioration in performance of the analyzers i.e. frequent breakdowns and requirement of minimum data capture is not on it.
- I) Type approved according to Indian Certification Scheme (or by foreign accredited institutes such as TÜV, MCERTS or USEPA).

#### 3.2 Merits of CEMS

The major advantages of CEMS over traditional laboratory based and portable field methods are:

- a) CEMS provide continuous measurement of data for long periods of time, at the monitoring site of interest, without skilled staff being required to perform the analysis.
- b) All the major steps in traditional analysis like sample collection, transportation, conditioning, calibration and analysis procedures including QC are usually automated in the sampling systems and on-line analyzers.
- c) In case of sudden disturbance in the Production Process/ Pollution Control system, the on-line analyzers provide timely information for taking immediate corrective/preventive steps compared to conventional methods.

# 4.0 TECHNICAL OPTIONS FOR SAMPLING OF POLLUTANTS IN CEMS

The sampling technologies are summarized in **Figure1**. Two types of systems available for monitoring of particulate and gaseous pollutant are mentioned below: -

- 1) In-Situ Systems: Folded Beam/ Point
  - Cross Duct
- 2) Extractive systems: -
  - Hot Extractive Systems with Heated Analyzer (Hot and Wet System)
  - Hot Extractive Systems with Sample Cooling and Cold Analyzer (Cold and Dry System)
  - Extractive dilution system (In-stack and out stack)

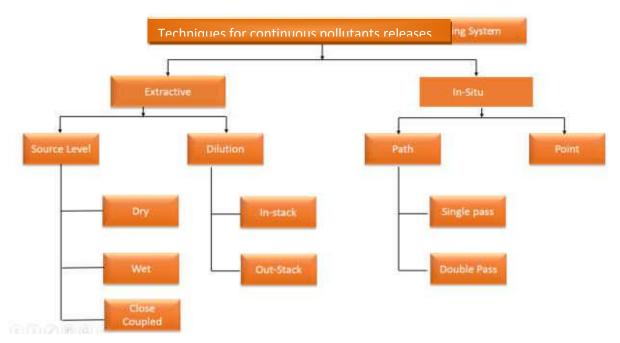


Figure 1: Techniques for Continuous Sampling of Pollutant Releases from Stacks

The sampling location has major impact on the representativeness and accuracy of sample collected. Suitable measurement sites and sections are necessary to obtain reliable and comparable emission measurement results. Appropriate measurement sections and sites have to be planned while designing a plant.

Emission measurements in flue gases require defined flow conditions in the measurement plane, i.e. an ordered and stable flow profile without vortexing and backflow so that the velocity and the mass concentration of the measured pollutant being released in the waste gases can be determined. Emission

measurements require appropriate sampling ports and working platforms. The installation of measurement ports and working platforms should be considered in the planning phase of a measurement section, refer **Figures 1.1& 1.2**. Specifications of regulations along with official requirements if any, should be considered in selection and specification of measurement site and sections.

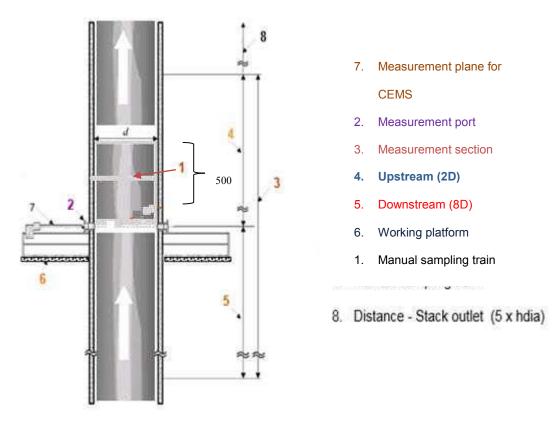


Figure 1.1: Measurement Site and Measurement Section

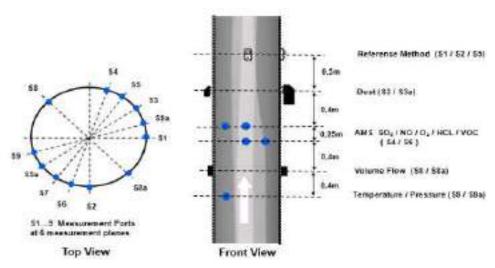


Figure 1.2: Measurement Site and Measurement Section

The measurement site and measurement section for CEMS is based on EN 15259 criteria for selection of measuring point/ port locations and depends upon following conditions (For Details refer EN15259 Standards):

- a) Whether to monitor concentration alone or gas flow also;
- b) Whether the system requires periodic calibration using standard method or whether the CEMS can be calibrated by other means.

The influence of these factors in determining the positional requirements is shown in the decision tree in **figure 2**.

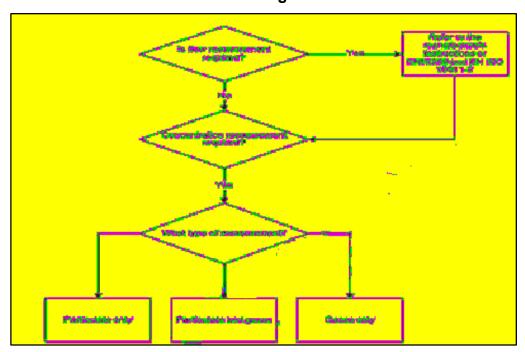


Figure 2: Selecting a sample location

#### 4.1 Sampling Location for Particulate Matter

The analyser/ systems installed for particulate matter monitoring require calibration performed by manual isokinetic sampling carried out through either BSEN 13284-1, IS: 11255 Part 1 (Particulate Matter) or EPA method 17 or EPA method 5 or BS ISO 9096:2003. The sampling location for the analyser must be in accordance with the CPCB prescribed guidelines (Emission Regulation Part-III).

The sampling plane for PM-CEMS should be 500 mm below manual sampling plane vertically. In addition to the above, for convenience of CEMS maintenance and manual sampling from the same platform, the manual sampling port may be shifted 30-50 cm right or left at horizontal plane of CEMS port without altering their vertical position (500 mm apart). For gaseous CEMS the same plane can be shared. In case of existing stacks where provision

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cannot be complied with, the industry shall inform the respective SPCBs/PCCs and proceed as advised/directed.

The sampling point or plane should be in a straight length of stack/duct (**Figure 3**) where;

- a) The angle of gas flow is less than 15°
- b) No local negative flow is present;
- c) The minimum velocity is higher than the detection limit (3 m/ Sec) of the method used for the flow rate measurement (for Pitot tubes, a differential pressure larger than 5 Pa);
- d) The ratio of the highest to lowest local gas velocities is less than 3:1.

If the above information cannot be verified e.g. on a new installation, then the above criteria is generally fulfilled by siting the ports in sections of duct with at least eight hydraulic diameters of straight duct down streams of the sampling plane and two hydraulic diameters upstream hydraulic diameters from the top of a stack.

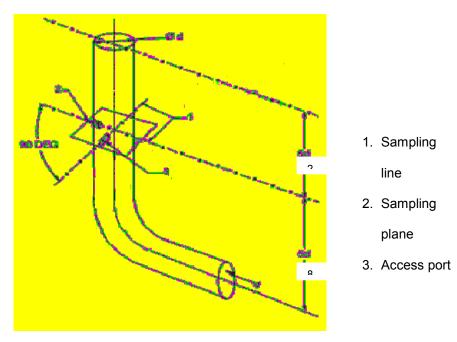


Figure 3: Sample Plane Requirement for Particulate Matter Measurement

#### 4.1.1 Sampling location for systems with particulate matter and gas analyzers

While selecting a location for installation of analyzers in large ducts, the gas profile at the proposed sampling point must be checked for stratification. A stratification test is undertaken to confirm that the gas composition is homogenous. Typically, a surrogate gas such as oxygen or carbon dioxide is measured using a direct reading instrument in order to obtain information on the



gas profile within the duct. The stratification test must take into account variations of gas composition with time. This can be achieved by using two continuous analysers each connected to sampling probes. One probe is placed at a fixed location in the duct; the other is used to obtain samples at grid locations across the duct traverses. The two sets of data can then be compared in order to compensate for variations in concentration with time.

#### 4.1.2 Sampling location for gas analysers

Selection of a sampling location for gas analysis alone is less difficult than for particulate measurement. A location in the duct where the gas is well mixed and therefore homogenous should be chosen.

- **4.1.3** Design of porthole locations for new stacks being installed after the date of issue of this 1<sup>st</sup> Revision of Guidelines is mandatory. For stacks which are already in place as on date the new design implementation must be done within a period of six months from date of issue of 1<sup>st</sup> Revision of Guidelines.
- 4.1.4 Stacks that are more than 15 (Fifteen) years old (from the date of 1<sup>st</sup> revision of guidelines) / stacks built with thick RCC walls / stacks with inner rubber lining / etc. where it is considered that making provisions for monitoring as per new guidelines is not possible or it may take longer period; industry is advised to communicate the reasons thereof to SPCBs/PCCs and SPCBs/PCCs to verify and certify the reasons in writing to this affect. In such cases CPCB should be intimated by the industry with records of documents scanned and sent at <a href="mailto:cems.cpcb@nic.in">cems.cpcb@nic.in</a>.

#### 4.2 Analysis of Measurement Techniques

#### 4.2.1 In Situ system:

In-situ is defined as in situation.

Non-extractive (in-situ) systems

In-situ type analyzers may be of two types: point in-situ type or cross stack type. These are explained below.

o Point in-situ

Point in-situ systems perform measurements at a single point in the stack, as do extractive system probes. Now a days in the in-situ systems the sensing



optics are contained in a tube fitted with holes or filters to allow flow-through of stack gases. The sampling path will be relatively short compared to the stack or duct diameter, so the sampling location must be carefully chosen to ensure that the sample is representative of the flue gas.

#### o Multi Point in-situ

In certain CEMS, the measurement length is extended over the length of a probe (say 0.05mt to 1.00mt) to increase resolution and provide more coverage (representative measurement). In any case 1/3rd of the stack cross section ensures better representation.

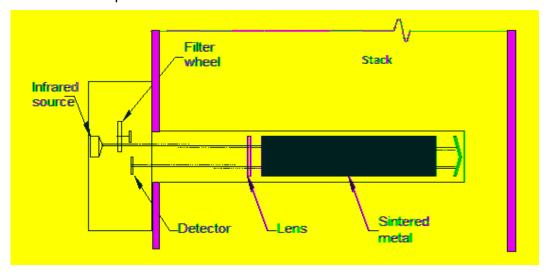
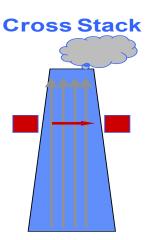


Figure 4.2.1 a: Point in-situ gas analyzer

#### **Cross stack monitors**

Cross stack monitors measure over the entire stack or duct diameter. They are based on a beam of a certain wavelength that crosses the duct and is attenuated proportionately to the concentration of the target compound. In some systems, a pipe may be used in the stack for support or calibration purposes, or to reduce the optical path lengths in



very large stacks or ducts. There are two basic types of path systems: single pass and double pass where the beam is reflected back across the stack. These systems can be simpler than extractive systems, however there are additional challenges associated with making valid zero and span checks and minimizing interference from other pollutants.

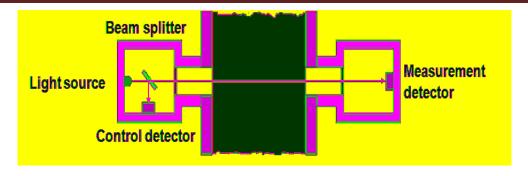


Figure 4.2.1 b. Single pass transmissometer /opacity monitor

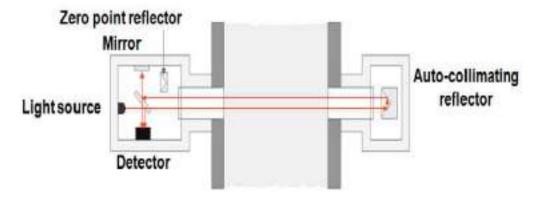


Figure 4.2.1 c. Double pass transmissometer /opacity monitor

Single beam and double beam principle- Single-beam configuration is simplest where one light beam from source is passed to receiver. Dual or double-beam configurations internally split the light emitted from the source into two beams – one becomes measurement beam and another becomes reference beam. The measurement beam is projected through the optical medium of interest and is referenced to the second (reference) beam, which is totally contained within the instrument. There can be common or separate detectors for both the beam.

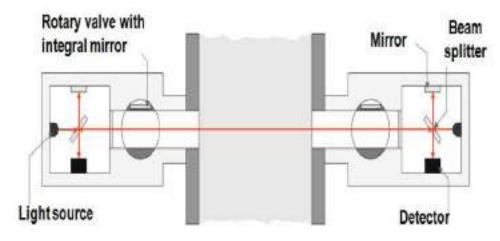


Figure 4.2.1 d: Double Beam Transmissometer (Measurement)



#### > Benefits:

- √ Fast Response time
- ✓ Reasonable cost
- ✓ Process control
- ✓ No sample conditioning required.

#### Limitations:

- ✓ Two flanges may be needed so an access to both side of stack is required.
- ✓ Systems are subject to stack vibration and temperature variations
- ✓ Proper alignment is required for correct measurement
- ✓ Sensitivity is limited due to the path length (critical for stacks with small diameters)
- ✓ Limited quantity of gases can be monitored
- ✓ Analyzer is subject to cross interferences especially from Water (Moisture)/ Temperature / Pressure.
- ✓ In situ systems are installed outside at top of stack so inconvenient conditions for maintenance
- ✓ No absolute method of On Line Calibration using injection of span gases along the path length.
- ✓ Complete Calibration equipment to be installed with analyser on top of stack platform.
- ✓ After readjustment the equipment has to be brought down to lab for calibration / validation checks.

#### 4.2.2 Extractive system (Gaseous Pollutant)

Source-level extractive systems are those in which a sample of flue gases is continuously extracted from a pointmoi and conveyed to the analyzer using a sampling line. Particulate matter may be removed from the gas, and it may be cooled and dried, but in all other respects the sample is not altered by the sampling process. Three types of source-level extractive systems are marketed commercially:

- a. Hot and wet systems and Hot and Wet -Close Coupled Systems
- b. Dilution Extractive Systems
- c. Cool and dry systems with conditioning at the analyzer enclosure



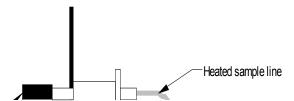
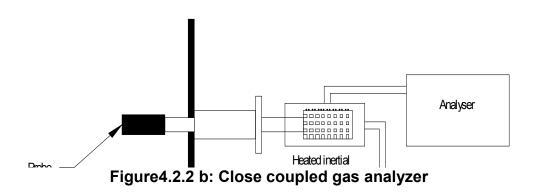


Figure 4.2.2 a: Hot and wet gas sampling system



In some cases, a combination of these systems may be used, for example when there is a requirement to measure both highly reactive and less reactive pollutants concurrently.

A source-level extractive system consists of several basic components: probe, sample line, filters, moisture-removal system and pump. In some source-level systems the analyzer, for example IR analyzer, O<sub>2</sub> zirconia sensor or TOC Flame Ionization Detector (FID), is mounted on the stack or duct, after a short sample line. In this case, analyzer response times are very fast and apart from particulate filtering, sample conditioning is not required. These systems are known as close coupled.

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#### Benefits:

- ✓ Sensitivity of the system is not related to stack diameter.
- ✓ Varying stack temperature does not affect the measurements
- ✓ Can be proven using reference calibration gases.

#### Limitations

- ✓ Longer response time, moisture removal, however meets the emission requirement.
- ✓ The closed coupled systems are subject to stack vibration and temperature variations requiring higher maintenance as calibration also mounted on stack, however extractive system (Hot-Wet or Dry Direct Extractive does not have this issue)

#### 4.2.3 Dilution based extractive system

The need is to transport the sample hot, and to filter and dry relatively large volumes of flue gas. This problem can be largely avoided by using dilution systems, where gas is drawn into the probe at much lower flow rates than in a source-level system. Dilution systems are used in conjunction with ambient air level gas analyzers.

Oxygen or CO2 must be measured separately for correction purposes (the diluted sample is 'swamped' by dilution air).

There are two types of commercially available dilution systems: **dilution probes**, where dilution of the sample gas takes place **in the stack**, and **outstack dilution systems**, where dilution is carried out external to the stack. The out-stack dilution sampling is less sensitive to changes in stack gas temperature, pressure and density. However, heated sample line is required for out stack dilution system.

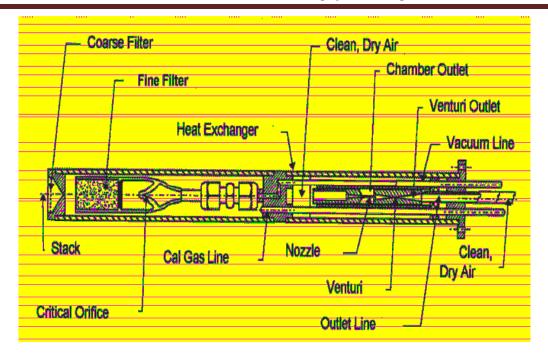


Figure 4.2.3 a: Typical in-stack dilution probe

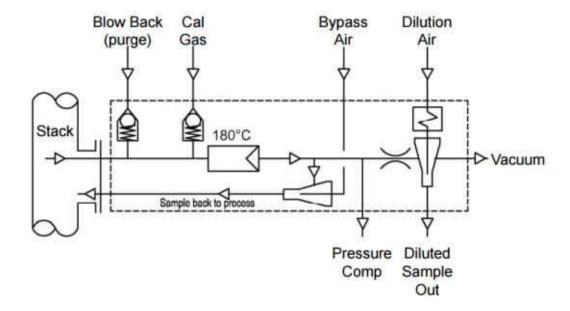


Figure 4.2.3 b: Typical out-stack dilution probe

Sample gas is extracted from the stack at a known flow rate, mixed with a known flow rate of dry air / dilutant.

#### > Benefits:

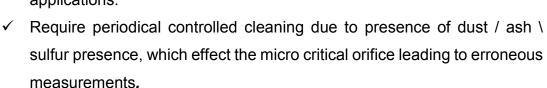
- ✓ It can be used to reduce moisture content so no heated sampling components are required.
- ✓ No power required at the probe so it can be used in hazardous areas.
- ✓ Low effect of stack temp variation, dust & moisture as dilution is done.

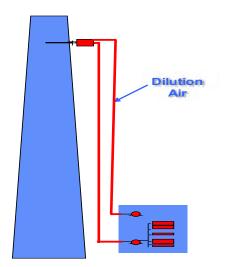


✓ long distance transportation of sample at positive pressure can be done

#### > Limitations:

- ✓ Flow rates are critical and need to be controlled to avoid varying dilution ratios.
- ✓ Balance is to be maintained with respect to Sample gas concentration vs analyzer sensitivity.
- Cannot be used for all gases including oxygen.
- Careful consideration of probe materials for high temperature and corrosive applications.





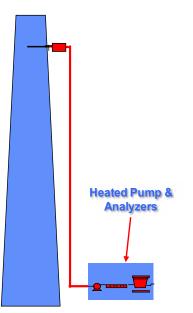
#### 4.2.4 Hot Wet Extractive system with Heated Analyzer

Sample gas is extracted from the stack and transported to the analyzer using heated line and heated sampling components – filters, pumps etc., including the analyzer measurement cell.

The temperature of all components in contact with the sample gas is typically at 180°C to avoid condensation and loss of soluble gases.

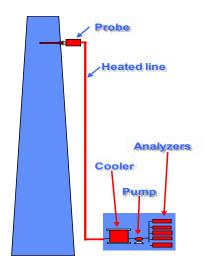
#### Benefits

- ✓ Sensitivity of the system is not related to stack diameter.
- ✓ Varying stack temperature does not affect the measurements
- ✓ Use technologies like FTIR that can measure most gases including NH<sub>3</sub>, HF, HCl, VOC, H<sub>2</sub>O and O<sub>2</sub>.
- ✓ Multi gases including specialty gases that are difficult to measure in other techniques.



#### Limitations

- ✓ Costly heated sample lines and components.
- ✓ Heated lines not UPS protected due to power required- risk of condensation and damage.
- More time required to maintain the system and heat stressed components.
- ✓ Online continuous H<sub>2</sub>O measurement for online correction of moisture as normalization being a
- ✓ hot wet technique.



## 4.2.5 Cool and Dry Systems - Hot Extractive System with Gas Cooler and Cold Analyzer

Sample gas is passed through a cooler to bring the sample gas temperature down to a low temperature and to remove water so sample is almost dry. Coolers are typically Peltier or Compressor type with outlet at about 3-4°C.

#### Benefits

- ✓ Varying stack temperature does not affect the measurements
- ✓ Multi gas measurement is possible with flexibility of different principle of measurements.
- ✓ Can use analyzers operating at low/ambient temperatures so components are not heat stressed.
- ✓ These analyser are versatile as suitable for harsh environments and can be placed in a clean, dry & temperature controlled environment, so more stable system and easier to maintain
- ✓ Analyzers are running at low temperatures, so systems tend to be cheaper than heated systems and widely used concept.
- ✓ These are also available in hazardous area installation.

#### Limitations

- ✓ It cannot be used on very soluble/corrosive gases.
- ✓ Soluble gases (HCl, HF, NH<sub>3</sub>, SO<sub>2</sub>) can be lost during the cooling resulting in lower than actual readings.
- ✓ Heated Sample gas line is required to maintain the flue gases above dew point.
- ✓ Leakage in sampling line will give erroneous results due to mixing of ambient air.



- ✓ Possibility of choking of lines in case of high dust loading.
- ✓ Risk of condensation in case of power fail
- ✓ In high dust concentration applications frequent choking occurs

#### 4.2.6 Extractive sample drying by other method

✓ Extracted sample may also be dried by applying specific sample line through selective permeation. Water gets eliminated from the sample stream to the outer jackets containing dry and cold air.

#### 4.2.7 Gas Sampling and Conditioning

The accuracy, repeatability and response time of the analysers are more dependent on the sample handling system rather than the analysers only. The reliability, accuracy, repeatability and response time of the measurement results of extractive analysers are impacted by possible failure of some of the components of sample handling system for extractive sampling.

Inline filters – used for applications where dust concentration in sample gas is on higher side, gets frequently chocked and need regular maintenance which effects percentage availability of measurement. The incorporation of technology for effective, heated, automatic back flush to clean these filters from outside can enhance the measurement data availability.

Heated Probe – accommodates heated fine filter, to arrest dust particles in sample gas to protect sensitive analyzer and provide uniform heating to the sample coming out from the stack and avoid condensation or cold spots.

For effective filtering, the probe should have more filtering area with automated back purge and back flush to reduce filter cleaning frequency and increasing the uptime of measurement.

Heated Filter: the common problem with the heated filter is associated with ineffective filtering area and selection of right micron size.

Sample Gas Pumps – are running 24x7 for months need to be robust and reliable.



#### 5.0 MEASUREMENT TECHNIQUES FOR PARTICULATE MATTER AND GASEOUS POLLUTANT

#### 5.1 **Techniques / Instrumentation for Online PM Monitoring**

Particulate Matter Continuous Emission Monitoring Systems (PM CEMS) measure a parameter (e.g. scattered light) which can be correlated to dust concentration by comparison to a gravimetric sample taken under isokinetic conditions rather than the mass concentration directly. The performance and suitability of any particulate monitor is therefore application dependent. A number of techniques are used in practice which provide a practical and robust solution for most industrial applications. There are two main types of Particulate Measurement Techniques:

- In-Situ Systems (Point or Cross-duct) for application in flue gas stream with temperature above dew point (>95 °C)
- **Extractive Systems** for applications with entrained water droplets in the B. gas stream

#### In-situ systems

The main cross-duct techniques used for Continuous Monitoring of Particulate Matter are: -

a) Light Attenuation (Transmissometry): In this method the amount of light absorbed by particles crossing a light beam is measured and correlated to dust concentration. In Opacity/Extinction instruments the amount of light reduction is measured directly, whereas in Ratio-metric Opacity systems the ratio of the amount of light variation (flicker) to the transmitted light is measured.

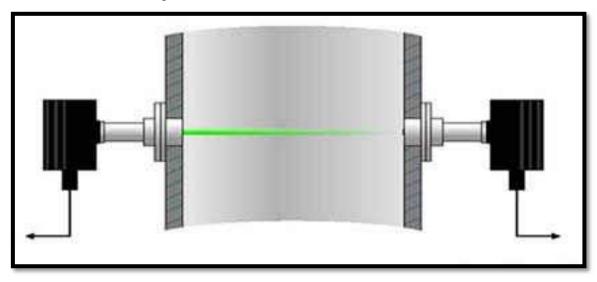


Figure 5.1: Light Attenuation

As with in-situ path systems for monitoring gaseous pollutants transmissometers may be single-pass or double-pass design. Double-pass types use a reflector on the opposite side of the stack or duct so that the light is transmitted twice through the flue gas. The single pass transmissometers have become obsolete. Some modern single-pass transmissometers are designed with two identical senders and receivers on each side of the stack to alternatively transmit and receive light in order to increase sensitivity and reduce the effects of fouling of the optical surfaces. The light sources use includes filament bulbs, light emitting diodes and lasers. Light colour green shown in figure is symbolic to understand the mechanism.

The simplest of the transmissometers will produce an opacity that can be correlated with a smoke colour scale, e.g. the Ringelmann scale. More sophisticated analysers that are equipped with on-line zero and span adjustment can be programmed to produce an output proportional to 1.0 mg/m³ based on the results of calibration measurements.

Transmissometers are usually designed for cross duct measurement with a sender and receiver on opposite sides of the stack for single pass system. For double pass both light source and receiver are placed in the same side with a reflector at opposite end to pass the light through the flue gas twice.

Point in-situ transmissometer type analysers have been developed in which the light source and detector are carried at opposite ends of a rigid tube. The tube contains a series of slots which allows the passage of PM-laden flue gas through the tube and hence between the light source and detector. This arrangement overcomes some of the problems associated with the cross duct systems with regard to alignment of sender and receiver and differential expansion caused by temperature variations, and stack vibrations.

**Limitations of measurement:** Transmissometry (Opacity monitors) is used extensively worldwide to monitor, "Opacity". This is particularly true in the utility and power generation industries. Adoption of opacity monitors for particulate matter monitoring in stacks is less universal due

to their inapplicability to the lower levels of particulate now found in industrial processes. Industries where Opacity monitors are still well accepted are the power, cement and steel industries due to their historical experience in satisfying opacity requirements. There are a number of Opacity instruments with TUV approvals for particulate measurement. The certification ranges for opacity monitor are dependent on path length. The measuring range of 0-1000mg/m3 is suggested for a path length of 0.5 to 15 mt. However, low range i.e. 0 to 10 mg/Nm3 can be monitored in stack with minimum 5m path length. The limitations of technologies are widely accepted.

- It cannot monitor particulate levels below 25mg/m³ per meter pathlength in general, as at low concentrations the reduction in the light beam caused by the particles is indistinguishable from the zero drift of the source/detector (i.e. variation in the intensity of the receiver with no dust conditions). This limitation makes the instrument unsuitable for many well abated emission applications (e.g. after a bag filter).
- The system is sensitive to dust contamination on the lens surfaces since it is not possible to distinguish between the reduction in light caused by dust in the stack and dust on the lenses. In practice a curtain of air (provided by a blower) is injected into the transmitter and receiver heads to keep the lens surfaces clean.
- Systems without retro-reflectors (i.e. non double-pass) are sensitive to misalignment between the transmitter and receiver.
- The calibration of the instrument changes with changes in the particle properties:
  - Particle type and refractive index (mainly changes the amount of light scattering)
  - Particle colour mainly changes the amount of light absorbed
  - Particle size and shape (changes the amount of light scattering)
    manifests itself in requiring a number of regression curves to be
    calculated at differing process conditions and differing fuels used
    for combustion.
- Water vapour and water droplets absorb light over the light frequency range used by opacity monitors and therefore opacity instruments are

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not suitable for stacks with flue gas below dew point or containing water droplets from wet collectors. This makes opacity monitors unsuitable for monitoring particulate matter emissions from coal fired power plant applications where Flue Gas Desulphurization (FGD) plant is not fitted with stack reheat (wet FGD).

b) Light scattering: In this system the amount of light scattered by the particles in a specific direction is measured. Forward, side or back scatter are a function of the angle of scattered light that is measured by the detector. Light scattering techniques (especially forward scatter) are capable of measuring dust concentrations several magnitudes smaller than that measured by transmissometers.

When light is directed toward a particle, the particle may both absorb and scatter the light, deflecting it from its incident path. An opacity monitor or transmissometer measures the intensity of light that is not scattered. Other instruments have been developed to measure the scattered light. The intensity of the scattered light depends on the angle of observation, the size of the particle, its refractive index and shape, and the wavelength of the incident light. Both in-situ and extractive analysers of this type have been developed. A light beam is passed through the Particulate Matter (PM) laden flue gas. Absorption and scatter attenuate the light. Light scatter analysers measure the intensity of the scattered light at a predetermined angle to the beam direction. The amount of light scattered in any direction is dependent on the size distribution and shape of the dust particles. Variations in the intensity of the light source and sensitivity of the detector are compensated for by the use of a reference beam, in the opposite phase to the measuring beam, onto the photoelectric detector.

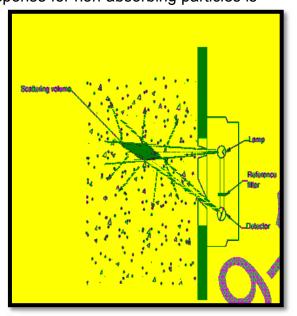
Scatter light measurement is a more sensitive measurement method for low dust loading. Opacity measurement at low loading is limited by the requirement to measure very small variations in the light received on the axis from the transmitter. Scatter light analysers measure only the scattered light and do not have to deal with the small variation in a large amount of transmitted light.

Instruments can be based on the forward scatter, side scatter or back scatter principles, and can be in-situ, point in-situ or extractive. This type

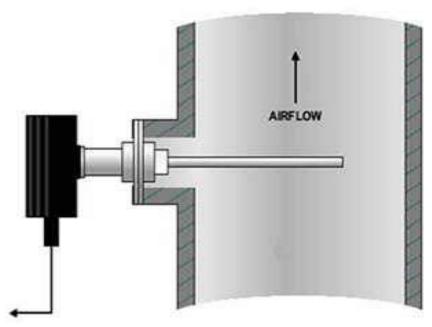
of analysers can claimed to be more accurate for measure low PM concentrations of upto 1mg/m<sup>3</sup>

**Limitations of technology**: Side Scatter or Back Scatter instruments are used in low dust concentration applications, such as those found in Power plant, Lead Smelters and Incinerators equipped with bag house as pollution control systems. Their technical limitations are as follows:

- The calibration is affected by changes in particle size and type of particle. For example, with absorbing particles (such as black fly ash) the response of a Back Scatter device is reduced by a factor of 20% from peak response when the particle size changes from 0.8µm to 0.7µm. The peak response for non-absorbing particles is
  - three times greater than for absorbing particles.
- Back and Side Scatter devices are less sensitive than Forward Scattering devices although can still provide sensitivity of less than 1mg/m³.
- In-situ light scattering instruments cannot differentiate between water aerosols and solid particles



c) Probe Electrification (Non-Optical): The electrical current produced by particles interacting with a grounded rod protruding across the stack/duct is measured and correlated to dust concentration. Charge induction (AC Triboelectric and Electro Dynamic) and DC Triboelectric instruments are types of probe electrification devices in which different signal and current analysis are performed. The Probe Electrification techniques are not all the same and should not be confused by each other. Electro Dynamic systems are used in Europe as Compliance devices due to their inherent reliability, repeatability and self-check capability.



Consideration should be taken when selecting Probe Electrification instruments. It should not be used after Electrostatic Precipitators as the action of the filter can affect the charge characteristics of the measured particulate causing errors in the instruments readings. Incase Tribo probe is mounted above ESP, then a Faraday Shield is placed around the entire probe length and grounded to negate the charge of flue gas particles emerging from the ESP field. All three techniques are highly sensitive and are responsive at low concentrations below 1mg/m³. The stack diameter may be a limiting factor in probe electrification technique. The probe length shall cover atleast half diameter to make representative sampling. Sticky, moist flue gases always pose threat to the performance, as the surface of the probe gets easily coated and restrict the charge exchange resulting in poor performance. Frequent cleaning and maintenance is required.

#### d. Optical Scintillation

Optical scintillation, like light extinction, utilizes a light source and a remote receiver that measures the amount of received light. The difference is that the scintillation monitor uses a wide beam of light, no focusing lenses, and the receiver measures the modulation of the light frequency due to the movement of particles through the light beam and not the extinction of light. The principles at work here are that the particles

in a gas stream will momentarily interrupt the light beam and cause a variation in the amplitude of the light received (scintillation). The greater the particle concentration in the gas stream the greater the variation in the amplitude of the light signal received. The scintillation monitor must be calibrated to manual gravimetric measurements at the specific source on which it is installed. Little advance against opacity as it reduces zero and upscale drift with modulated light to eliminate effects of stray or ambient light. The transmitter and receiver are located on opposite sides of the duct; therefore, this instrument also measures across-stack PM concentration. The instrument response increases with PM concentration and can be correlated by comparison to manual gravimetric data.

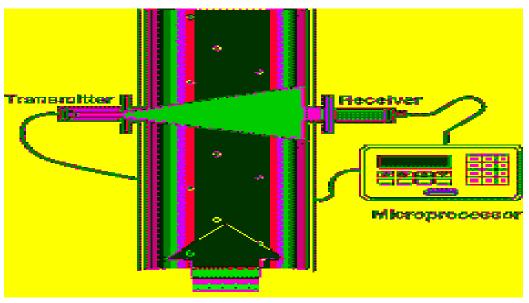


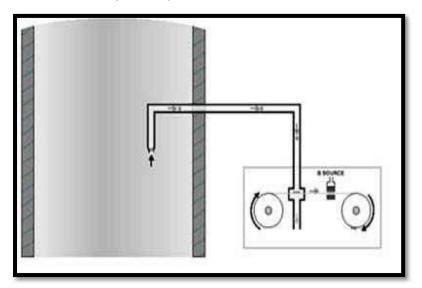
Table 1: The advantages and disadvantages Optical Scintillation

Advantages	Disadvantages
Low price	Measures secondary particles as PM
Easy to install	properties of PM
	Adversely affected by
	Particle size, density, shape change
Low maintenance	The cleaning of receiver in a dirty stack is an
	issue
Sensitivity to little high	Not Sensitive to low PM concentration
concentration	
Perform better in dry stack	Measures liquid drops as PM;
Moisture	

## **B.** Extractive systems

The presence of water droplets in saturated gas streams below the dew point i.e., after wet collectors will affect the monitoring response of all insitu technologies to an extent where calibrated results cannot be guaranteed. In these instances, extractive systems must be used. The two common methods for measuring in wet stacks are: -

a) Beta Attenuation: The moving gas stream is sampled and the particulate is collected onto a filter. The filter is advanced periodically (typically every 15 minutes) into a measurement chamber, so that radioactive Beta particles can be passed through the sample and the amount of Beta particles transmitted through the sample is measured. The advantage of this technique is that the absorption of radioactivity is not significantly affected by the type of particle (although particles with different Nucleonic density have different responses).



b) Extractive Light Scatter: The flue gas is extracted (recommended under isokinetic conditions) and then passed into a heater unit to evaporate any water or water vapour below dew point water before measurement in an external light scattering chamber. A Forward Light scattering technique is normally used in the chamber. Extractive systems have been designed to overcome the problematic issues of sample handling on a continuous basis. In stacks filled with wet scrubber as air pollution control device, where dust concentration is low and mass of water droplets is high compared to the dust particular extraction of sample slightly over isokinetic is deserved.



## 5.1.1 Requirements of an efficient on-line PM CEMS

One of the fundamental issues in obtaining good results from particulate matter measuring instruments is to ensure that the instrument fits for purpose of the intended application. This means that the instrument: -

- 1. Must have a stable, reliable response, which can be directly correlated to dust concentration with limited cross interference from likely changes in process or flue gas conditions. Certified products provide guidance on the application suitability of different instruments. Manufacturers should be contacted for more detailed guidance on the application suitability of a specific type of instrument. Industry is responsible for the selection of appropriate technology for measurement of emission as per CPCB guidelines.
- Can operate over a long duration in the application without the need for frequent maintenance or cleaning. The Maintenance Interval as stated in the certificate can provide guidance on servicing issues. The maintenance and calibration schedules suggested by manufacturer should be followed strictly.
- The system has sufficient resolution for the intended application. The systems certificates state the ranges in mg/Nm³ for the instrument which is the lowest dust range at which the instrument will still meet the required performance standards.
- 4. Instrument measuring range selection: The Measuring Range should be 2.5 to 3.0 times of Prescribed Standard value. i.e. if Prescribed Standard

for PM parameter is 50 mg/Nm3 then selected Instrumental Measuring range should be in between 0-125 or 0-150mg/Nm3.

The span calibration (for gaseous parameters) should be performed at 60 to 80% of the selected instrumental measurement range.

- 5. The minimum detection level of the instrument should be considered in relation to the normal operating condition of the plant to ensure a meaningful stable response from the instrument at normal plant conditions which can then be calibrated.
- 6. The operating technology should be suitable for the type of Filtration system (pollution control system) used, the diameter of the stack or duct, the dust loading and any other additional parameters (like corrosiveness, stickiness, moisture, etc.) that may affect the operation of the PM CEMS i.e. for applications with entrained water droplets an extractive PM CEMS which conditions the wet gas stream to remove the entrained liquid must be used to obtain quantitative results.

## 5.2 Techniques/ Instrumentation for Online Gaseous Pollutant Monitoring

The extractive type of emission gas analyzers available are:

#### 1. Non Dispersive Infrared (NDIR)

Many gaseous pollutants absorb light energy in one or more regions of the spectrum. Sulphur dioxide / Nitric Oxide / Carbon Monoxide and a wide range of other gases absorb infrared radiation and ultraviolet radiation. Each type of pollutant molecule absorbs light at a characteristic wavelength, and therefore it can be distinguished from other pollutant species.

Continuous emission monitors using this principle apply the Beer-Lambert Law, which states that the transmittance of light (i.e., the ratio of the intensities of the transmitted and incident light) through a medium that absorbs it is decreased exponentially.

Hetero-atomic gaseous molecules, which contain two or more dissimilar atoms in the molecule, display unique absorption characteristics in the infrared region of the spectrum. Homo-atomic molecules containing only one type of atom within the molecule do not produce characteristic vibrations when exposed to light in the infrared region; therefore, they cannot be measured by this technique.

By using this principle an instrument can be designed to measure pollutant gas concentrations. Non-dispersive photometry analysers using infrared (NDIR) have been developed for monitoring a wide range of gases.

Simple non-dispersive infrared analysers use filters or other methods to measure the absorption of light over a relatively small range of wavelengths centered at an absorption peak of the molecule of interest. In a simple NDIR analyser, infrared light is emitted from a source such as a heated coil or other type of infrared radiator. The light is transmitted through two gas cells: a reference cell and a sample cell. The reference cell contains a gas such as nitrogen or argon that does not absorb light at the wavelength used in the instrument. A sample of the gas is passed through the sample cell of the instrument. As the infrared beam passes through the sample cell, pollutant molecules will absorb some of the light. As a result, when the light emerges from the end of the sample cell it has less energy than when it entered. It will also have less energy than the light emerging from the reference cell. The energy difference is detected by a detector. The ratio of the detector signals from the two cells gives the light transmittance, which can be related to the pollutant gas concentration.

Simple non-dispersive infrared analysers are still supplied for applications where only one gaseous species is to be monitored. They are relatively low cost, reliable and robust. A limitation of analysers based on this principle is that gases that absorb light in the same spectral region as the gas of interest will cause a positive interference in the measurement.

Water vapour are strongly absorbing in the infrared region and must be removed from the sample before the gas enters the analyser. One solution to this problem is to use absorption cells arranged in series, as in the  $O_2$  detector. The NDIR analysers combine with  $O_2$  measurement for online continuous correction / normalization for any diluent of emission gases being measured by CEMS system.

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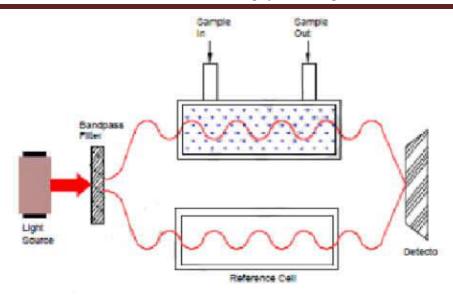


Figure 5.2: NDIR System

#### 2. Photoacoustic Detector

A variant of the pneumatic detector technique is the photoacoustic detector. Analysers based on this principle of operation monitor acoustic waves resulting from the absorption of chopped light by molecules in a sealed sample cell.

In a light-absorbing molecule, when vibrational-rotational energy dissipates absorbed light energy into kinetic energy, the pressure will increase in the sealed chamber in which they are confined. If the light beam is turned on and off, the pressure will alternately increase and decrease, producing a pressure pulse or acoustic signal. In practice this is achieved by placing a rotating chopper between the light source and the measurement chamber. When the chopper produces pulses between 20Hz and 20 KHz frequency, the pressure pulse can be detected by sensitive microphones.

By placing different optical filters in a carousel located between the chopper and measurement chamber, a range of organic and inorganic compounds can be measured at ppb levels. In the photoacoustic technique light absorption is measured directly, so if there is no absorbing gas in the measurement cell, no pressure pulse will be generated. If some gas is present, some sound will be generated and if more gas is present more sound will be generated.

The technique does not provide continuous analysis, as the sample must be sealed in the measurement chamber before the analysis sequence can begin. This cycle typically takes 40 seconds to complete five determinants.



## 3. Gas Filter Correlation (GFC) NDIR

A type of NDIR technique, which is widely used in in-situ monitors, is also applied to extractive system analysers. The gas filter correlation (GFC) technique uses a reference cell that contains a 100% concentration of the pollutant of interest, instead of the 0% concentration in the techniques discussed previously. Radiation from an infrared source passes through a filter wheel, which contains a neutral gas, such as N<sub>2</sub>, in one cell and the gas of interest in the other cell. The light is then passed through a modulator that creates an alternating signal.

When the instrument is operating the filter wheel is continuously rotating. When light passes through the gas filter it will be attenuated. The gas filter contains enough of the target gas to remove most of the light at the wavelength where the target gas absorbs. The gases not absorbed at selected wavelengths are not removed and are passed on to the detector. The net result is reduction of light energy reaching the detector. When the light passes through the neutral cell its intensity is not reduced. If a sample of gas containing the target pollutant is introduced into the sample cell the molecules will absorb light energy at the absorption wavelength of the target gas. Because the gas filter was chosen to absorb energy at the same wavelengths, the absorption is already complete in the gas filter cell beam, and the detector will see the same signal as it did when the sample cell contained zero gas. The beam passing through the N<sub>2</sub> side however will carry less energy because light is absorbed by the target gas in the sample cell. The difference between the two beams is monitored, and can be related to the concentration of the gas of interest in the sample. Other gases having spectral patterns in the same regions as the target gas will not affect the measurement, as they do not correlate. Moisture has absorption and needs to be removed and adequate correction is required.

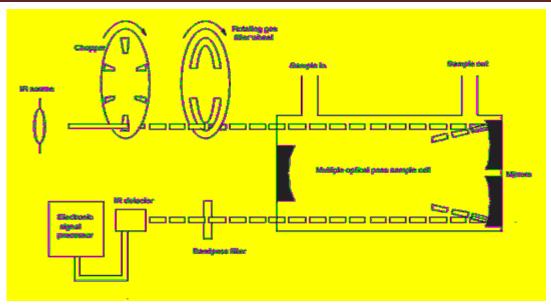


Figure 5.2.a: Gas Filter Correlation NDIR

## 4. Differential Optical Absorption Spectroscopy (DOAS)

Another non-dispersive method measures light absorption at different wavelengths, those at which the molecule absorbs energy and those that do not. In this system a reference wavelength is used instead of a reference cell. The system can monitor SO<sub>2</sub>, NO<sub>2</sub>, HCl, HF, CO, CO<sub>2</sub> and NH<sub>3</sub> in stack emissions. These parameters are however selective to UV/IR-DOAS technology. The extractive UV-DOAS system can also measure gaseous mercury when fitted with heated sample gas probe, heated gas transfer line and also heated measuring cell after conversion of total gaseous mercury into elemental mercury.

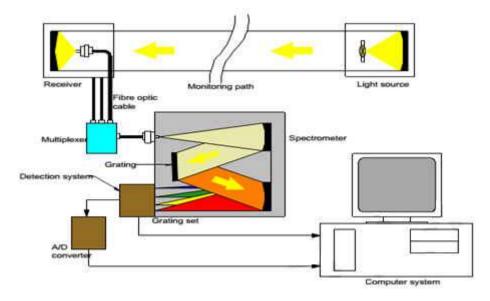


Figure 5.2.b: Differential Optical Absorption Spectroscopy



## 5. Fourier Transform Infrared Spectroscopy (FTIR)

Infrared-active gases, such as CO<sub>2</sub>, CO, SO<sub>2</sub>, NO, NO<sub>2</sub>, HCl, HF, VOC, H<sub>2</sub>O, can be measured simultaneously using Fourier transform IR spectroscopy (FTIR spectroscopy). Unlike in traditional spectroscopy, the absorption spectrum is not recorded by means of dispersive elements such as lattices or prisms, but using an interferometer arrangement.

Most FTIR spectrometers are based on the Michelson interferometer which has the function of a mono-chromator. The radiation hits a beam splitter which reflects 50 % of the radiation and transmits the remaining 50%. The reflected and transmitted beams hit two mirrors which are perpendicular to one another and are reflected back to the beam splitter. The beam splitter recombines the two reflected beams into one. The recombined beam is passed through a cell filled with the gas component to be measured and then focused on an IR detector.

Continuously shifting one of the mirrors opposite the beam splitter produces differences in the optical path length which the two beams have to cover on the way back to the beam splitter. This difference (path difference of the interferometer) produces interference in the recombined beam which results in the fundamental coding. The shifting makes the interference signal (local intensity distribution) variable (interferogram). This means the interferogram contains all the information about the spectrum in encrypted form. The absorption of the modulated IR radiation in the measurement cell means that the interferogram contains all the spectral information at the same time.

A mathematical Fourier transformation into the IR range (demodulation) is then applied to the interferogram recorded. By comparing the IR spectrum recorded to a reference spectrum, the FTIR spectrometer can quantitatively detect a number of IR-active measured objects, depending on the software version used. Once the instrument has been calibrated the calibration data are stored as a spectral library, which is stored as software. Essentially the FTIR technique provides a 'signature' of the total absorption spectrum of the sample gas over a broad spectral range. Instruments typically works in wavelength range from 2.5 to25µm.

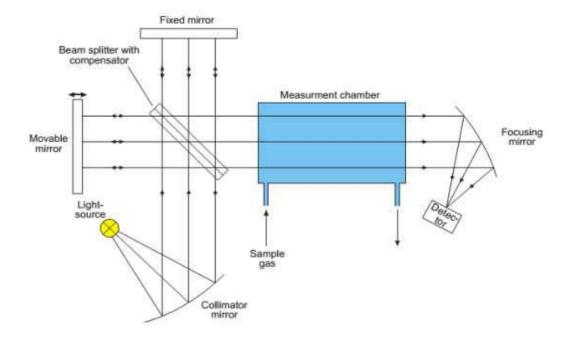
This FTIR is an advanced technology and works on Hot Wet Technique completely heated at 180°Cand has wide applications due to multi gas



measurement over the IR spectrum of 2 to 25  $\mu$ m and can measure CO, CO<sub>2</sub>, SO<sub>2</sub>, NO, NO<sub>2</sub>, HCI, HF, NH<sub>3</sub>, H<sub>2</sub>O, VOC, etc. For monitoring of low concentration of NH<sub>3</sub>, HCI and HF extractive system is preferred. Additional modules of O<sub>2</sub>& VOC can also be integrated into the online measurement. Best suited for wet process with high moisture even as high as 50 – 60 Vol% in background eg. Waste Incineration, waste to power, process like Dry Cement, process using alternative fuels like pet coke, waste, bio mass, etc. The minimum detection limit (MDL) is in parts per billion (10<sup>-9</sup> ratio at atmospheres), when resolution is 0.5 cm<sup>-1</sup> and optical path is 100m (**Table 2**).

Table 2: Minimum Detection Limit of FTIR Method for different compounds

SI. No	Compound	Frequency (cm <sup>-1</sup> )	MDL (PPB)	Remarks
1.	Carbon Dioxide (CO <sub>2</sub> )	2363	0.4	MDL is 0.4 ppb if no other CO <sub>2</sub> is present. In air, the minimum detectable change in CO <sub>2</sub> would be about 50 ppb
2.	Carbon Monoxide (CO)	2200-2100	2.0	Array of lines
3.	Hydrogen Chloride (HCI)	3050-2700	1.5	Array of lines
4.	Nitric Oxide (NO)	1920-1870	4.0	Array of lines
5.	Nitrogen Dioxide (NO <sub>2</sub> )	2210	1.0	Array of Lines
6.	Sulfur Dioxide (SO <sub>2</sub> )	1361	2.0	Spike; water must be carefully subtracted
7.	Water (H <sub>2</sub> O)	1700-1400	5.0	MDL is 5 ppb if no other water is present. In Humid air, the minimum detectable change in water content would be 1000 ppb.



## 6. Non Dispersive Ultraviolet (NDUV)

The characteristics of light in the ultraviolet (UV) region of the spectrum (shorter wavelength, higher energy) lead to molecular electronic transitions when the light is absorbed. Absorption of ultraviolet photons excites the electrons of the atoms within the molecule to a higher energy state. The excited electrons quickly loose the energy by returning to the ground state by one of four methods; dissociation, where absorption of high-energy photons can cause the electron to leave the molecule completely, causing it to fragment; re-emission, where an identical photon is re-emitted as the electron decays back to its ground state; fluorescence, where a photon is emitted at a lower frequency than the original absorption as the electron decays back to its ground state, causing the gas to appear to glow.

Analysers that are designed to operate in the UV region typically employ the differential absorption technique. Analysers designed to measure SO<sub>2</sub> measure UV light absorption at a wavelength in the SO<sub>2</sub> absorption band centered at 285nm. This is then compared to the absorption at the wavelength region of 578nm where there is no SO<sub>2</sub> absorption.

Differential absorption NDUV instruments have proven to be very reliable in source monitoring applications and can also measure both NO & NO<sub>2</sub> simultaneously without need of NOX Converter. The technique has lower interferences but cannot measure other pollutants like CO / CO<sub>2</sub>.

#### 7. Ultraviolet Fluorescence

Ultraviolet fluorescence analysers for SO<sub>2</sub> are based on the absorption of UV light at one specific wavelength by the SO<sub>2</sub> molecules, and its re-emission at a different wavelength. Commercially available instruments contain either a continuous or pulsed source of UV radiation. Filters are used to produce a narrow waveband around 210nm. The light (photon) emitted from the exited molecules is passed through a filter and then to a detector photomultiplier tube. The amount of light received at the specific wavelength is directly proportional to the number of SO<sub>2</sub> molecules and is a measure of concentration in the measurement cell, provided the sample flow rate is tightly controlled. A problem with this measurement principle is the 'quench effect' caused by the capture of the emitted radiation from the SO<sub>2</sub> molecules by other molecules present in the gas e.g. CO<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, etc. The quenching effect varies depending on the molecule involved and it is therefore very difficult to compensate for this effect when the matrix gas containing SO<sub>2</sub> has a time variable composition, e.g. a boiler flue gas. This effect has limited the use of this type of analyser for emission monitoring purposes, however it has found wide application as an ambient air analyser for SO<sub>2</sub> where the matrix gas, i.e. ambient air, does not vary significantly in composition.

UV fluorescence analysers can be used for emission monitoring purposes at Large Combustion Plants (LCPs) if a high ratio dilution sampling system as described earlier is used. In case of measurement ofSO<sub>2</sub> concentrations in the stack gases, the quality of the dilution air significantly affects the measurement result. Besides inability to measure components like O<sub>2</sub>, CO, CO<sub>2</sub>, etc. is its limitation compared to other techniques like NDIR/NDUV with capacity for multi gas measurements.

### 8. Flame Photometry

Flame photometry analysers are specified in Environment Agency Technical Guidance NoteM2 for the measurement of total sulphur. The technique is non-selective, and is not specific to SO<sub>2</sub>. It is therefore rarely used for continuous monitoring, but is a popular technique for Total Sulfur measurement as an online ASTM Technique.

### 9. Chemiluminescence Analysers

Chemiluminescence is the emission of light energy that results from a chemical reaction. It was found in the late 1960s that the reaction of nitric oxide (NO) and ozone (O<sub>3</sub>) produced infrared radiation from about 500 to 3000nm. It lost its status due to interferences/ Quench Effect of CO<sub>2</sub>/Moisture and requirement of additional accessories like Ozone generators, pumps etc besides the inability to measure measurement components like SO<sub>2</sub>, CO, CO<sub>2</sub>, etc. compared to other techniques like NDIR/NDUV which can do multi gas measurements.

Nitrogen dioxide (NO<sub>2</sub>) does not participate in this reaction and must be reduced to NO before it can be measured by this method. Most commercial analysers contain a converter that catalytically reduces NO<sub>2</sub> to NO. The NO (converted from NO<sub>2</sub>) plus the original NO in the sample is then reacted with O<sub>3</sub> as described above to give a total NO + NO<sub>2</sub> (NO<sub>x</sub>) reading.

Chemiluminescence monitors are well established for the monitoring of NOx. The method is also well established for ambient air monitoring. These monitors have very low detection limits (of around 0.1 ppm) and a wide range when equipped with dilution system (up to 10,000 ppm), plus a short response time of a few seconds. This type of system has found wide acceptance in Ambient Measurement for very low concentration levels. In North America the system is used with conventional sampling systems and also with high ratio dilution samplers. For high concentration stack gases, the system is not popular in Europe as it requires dilution technique for diluting the high concentrations in Stack gas by extractive dilution system.

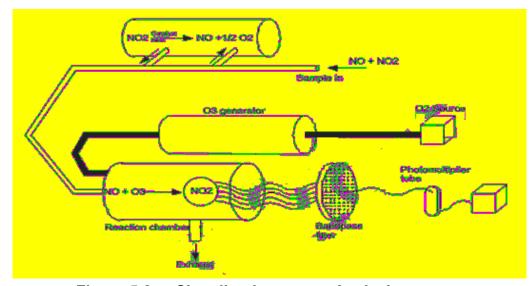


Figure 5.2.c: Chemiluminescence Analysis



## 10. Derivative/Laser Spectroscopy

Derivative/LASER spectroscopy involves scanning a spectral absorption peak and obtaining its second derivative or higher derivatives with respect to wavelength at the peak maxima. The derivative peak is measured, and this has the effect of increasing the detection sensitivity of the measurement. In analysers using this technique either the originating light from the light source is modulated or the light seen at the detector is modulated. This modulation produces a signal at the detector that is dependent on the shape of the absorption curve of the molecules.

Scanning over the absorption spectrum produces harmonics of the absorption line. The second harmonic of the signal is usually used to measure the concentration of the absorbing gas. The amplitude of the second harmonic is proportional to the second derivative of the intensity with respect to the wavelength.

Tunable diode lasers (TDL) have been used in extractive, path in-situ, point in-situ and close-coupled monitoring designs using second derivative detection techniques. A simple diode laser system can employ the differential absorption technique, tuning the laser to different wavelengths by changing the laser temperature or its driving current.

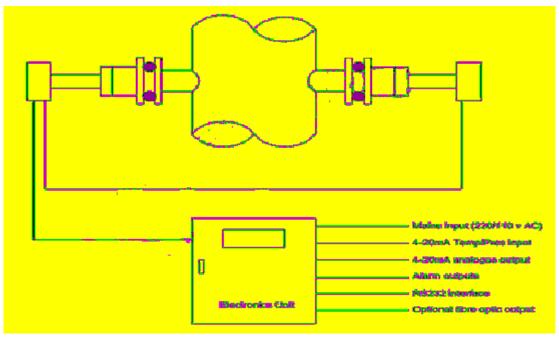
Large interferences of gases may influence the measured concentration. This is due to line broadening effect as a result of molecular collisions. Different types of molecule may broaden the absorption line differently. Modern TDL analysers automatically compensate for this effect using digital filtering techniques.

An interesting aspect of the technique is its ability to measure oxygen concentration. As mentioned previously, homo-atomic molecules such as O<sub>2</sub>do not exhibit unique absorption characteristics in the infrared region of the spectrum. By using the derivative spectroscopic technique, the spin of electron is modified can be detected.

If oxygen is to be monitored using this technique, it is important to use pure nitrogen rather than air to purge the sensor 'windows', as the presence of oxygen in the purge gas will interfere with the measurement. Alternatively, it may be possible to correct the interference introduced by the purge air by calculation. In this technique the total path length, the path length containing

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purge air, the path length containing flue gases and the temperature of the purge air and flue gases are measured, and the data are used to discriminate between oxygen present in the purge air and oxygen in the flue gases. Advance TDL techniques like CRDS (cavity ring down spectroscopy) or ICOS (Cavity Off-Axis Spectroscopy) are very stable at as low as ppb levels.



#### 11. Flame Ionization Detector

The Flame Ionization Detector (FID) is the standard method for the measurement of Total Hydro Carbon (THC) / Total Organic Carbon (TOC)/ Total Volatile Organic Carbon (TVOC). The FID is capable of sensing most organic compounds and because of its relatively high sensitivity; it has become widely used in environmental applications.

In a typical FID the gas sample enters the base of a combustion chamber, where it is mixed with either hydrogen or a mixture of hydrogen or O<sub>2</sub>10% and helium. A mixture of hydrogen and helium is used in order to reduce oxygen synergistic effects; however, more fuel gas is required with this approach resulting in shortened operating times. An alternative technique employs ceramic material to construct the burner nozzle; in this case pure hydrogen may be used for the fuel gas. The mixture is burned in a jet with oxygen.

The flame produces ions and free electrons. A current is applied between the burner and a collector plate, and the ions and free electrons increase the current flow in the circuit, which is sensed by an electrometer. The current is approximately proportional to the number of carbon atoms entering the flame; as the response of the detector is slightly different for different types of organic

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compounds, the detector must be calibrated for the compounds being analysed to achieve the best accuracy.

The FID is selective and convenient to use in source sampling applications, since it does not respond significantly to other gases in the sample such as  $N_2$ , water vapour, CO,  $SO_2$  and NO. However organic compounds that contain nitrogen, oxygen or halogen atoms may give a reduced response. The FID based system applicable for CEMS is hot- wet extractive, as a heated measurement.

#### 12. Photo Ionisation Detector

In a photo ionisation detector (PID), a light in the UV region of the spectrum ionises organic molecules. The major components of the flue gas sample such as O<sub>2</sub>, CO, N<sub>2</sub>, CO<sub>2</sub> and water vapour are not ionised by the UV source. A typical PID analyser consists of a UV lamp and a pair of electrodes to measure the current proportional to the concentration.

Different molecules require different energies to photoionise, and the frequency of the light used in the PID may not ionise all of the organic species present in the sample.

PIDs are used in conjunction with gas chromatographs, or alone as portable analysers, where the technique can be used to produce extremely rugged and compact instruments. However, as the PID technique can be non-selective, analysers of this type are usually used as screening devices.

#### 13. Gas Chromatography

Gas Chromatography (GC) is used to isolate the individual components of a mixture of organic and inorganic compounds from each other for subsequent identification and quantitative analysis. GC is based on the selective distribution of compounds between a stationary phase and a mobile phase (carrier gas). In the process, the moving gas phase passes over a stationary material that is selected to adsorb the organic molecules contained in the sample gas depending on polarity. The stationary phase can be either liquid or solid, and is contained in a long thin tube, commonly known as a 'column'. Columns are made from fused silica, glass or stainless steel.

In an ideal column operated under ideal conditions, each molecular species will exit the column at a different time depending upon molecular weight and



polarity. Selecting the appropriate column and operating it under the appropriate temperature with a suitable carrier gas flow rate will enable separation of the gas sample into its individual components. It should be noted that the technique is not truly continuous.

The compounds separated in a chromatographic column must be detected and quantified using appropriate detectors considering their sensitivity to the parameter being analyzed. Many types of detectors are available and the most commonly used for source monitoring applications being TCD, FID, PID, FPD, etc.

Analysers based on the principle of gas chromatography are complex and expensive. Although portable versions are available, they are not often used for the continuous measurement of organic compounds in emissions to atmosphere from LCPs and waste. Gas Chromatography techniques have been most popular technique in the Petroleum Refining/Petrochem industry for process measurements.

## 14. Zirconium Oxide (ZrO<sub>2</sub>) Analyzer for Oxygen measurement

Analysers using ZrO<sub>2</sub> for the measurement of oxygen concentration in flue gases can either be in-situ, i.e., the measurement cell is in the stack; extractive on-stack, i.e., the cell is mounted on the stack with a sampling probe protruding into the flue gas; or extractive with the cell mounted in an analyser some distance from the stack.

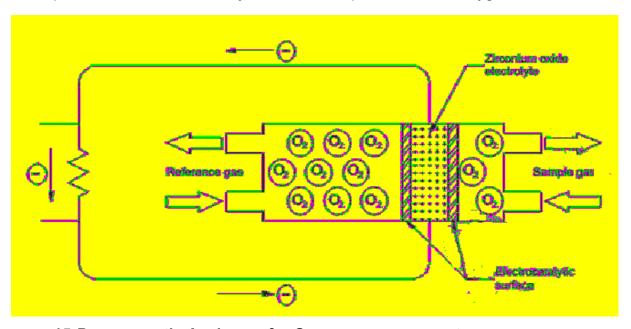
In this method ceramic material, Zirconium Oxide (ZrO<sub>2</sub>) coated with a thin layer of platinum, acts as an electrolyte to allow the transfer of oxygen from one side of the cell to the other. In the cell the oxygen concentration in the reference side is maintained at 21%. When the sample side of the cell is exposed to flue gases, the oxygen concentration in the sample side will be less than in the reference side. When ZrO<sub>2</sub> is heated to around 600°C, oxygen ions can migrate through the material, releasing electrons in the process. This results in the generation of an electromotive force, which is proportional to the difference in oxygen concentration between the two sides of the cell. If the reference oxygen concentration is known, the sample concentration can be calculated. The main characteristics of these analysers are:

Very accurate and reliable measurement of O<sub>2</sub>;



- A fast response time (for in-situ measurement) makes it ideal for process control applications;
- It is a well-understood technology with examples at most boiler plants (for combustion control);
- It has a low capital cost and low maintenance;
- The measurement is on a wet basis. The level of water vapour must be known to calculate the concentration on a dry basis.

It should be noted that the electrical output of the ZrO<sub>2</sub> cell is zero when both sides of the cell contain ambient air. The output of the cell increases as the oxygen content in the sample side of the cell is reduced. Thus it is normal practice to 'zero' ZrO<sub>2</sub>analysers at the 'air point', i.e, 21% oxygen.



## 15. Paramagnetic Analysers for Oxygen measurement

These extractive type analysers make use of the paramagnetic properties of oxygen for the measurement of concentration. Oxygen has a relatively strong permanent magnetic moment, which can be used to influence flow patterns of sample gas within an analyser.

The general characteristics of the extractive paramagnetic analysers are:

- Accurate and reliable measurement;
- Measure on a dry basis as part of an extractive system, therefore providing correct reference values for other extractive systems;
- Can be installed in the same sampling train as other analysers making use of common components, e.g. coolers, filters etc. This also ensures



that sample contamination by air in-leakage to the sampling system is taken into account; and

 Usually situated adjacent to other analysers, so can be part of an integrated monitoring package.

The types of paramagnetic analysers available are:

# 15.1 Paramagnetic Thermo-magnetic (Magnetic Wind) Analysers for Oxygen measurement

This method uses the temperature dependence of para-magnetism to generate a magnetically induced gas flow (magnetic wind), which is then measured. The sample gas to be analysed flows through a two-chamber system, consisting of sample and reference chambers. The two chambers hold temperature-dependent resistors that form part of a wheat stone bridge having thermodynamically identical conditions. The sample chamber is located in the field of a permanent magnet, while the reference chamber is not.

The bridge is connected to a constant current source. When oxygen-free gas flows through both chambers, the thermodynamic conditions in both chambers remain identical. If the gas in the sample chamber contains  $O_2$ , an enhanced circulatory flow proportional to  $O_2$  content is established in the sample chamber. This disturbs the temperature dependent balance of the bridge circuit creating a DC signal proportional to  $O_2$  content of the sample gas.

These analysers have a low maintenance requirement and are generally cheaper than other types of paramagnetic analysers. Because of the dependence of the principle on the thermal conductivity and specific heat of the sample gas, the composition of the background gas must be taken into account during calibration. The response time is also relatively slow.

## 15.2 Paramagnetic Automatic Null-Balance Analysers

The oxygen molecules in a flowing gas sample will establish a partial pressure gradient in a magnetic field. This gradient can be used to exert a force on a small dumbbell shaped body located within the field. The torque on the dumbbell causes a displacement that is detected by a mirror and photocell assembly, which measures its angular position. Compensation current

produced as a function of this position results in an electromagnetic torque counter acting the measurement torque and tries to restore the dumbbell to its original position. This compensation current is proportional to the  $O_2$  content of the sample gas.

This measurement principle can achieve high sensitivity and accuracy. Analysers of this type have become a standard for flue gas analysis and are also type approved for emission monitoring.

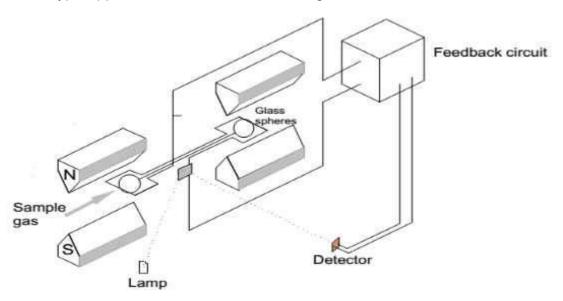


Figure 5.2.d: Magnetic Null-Balance Analysis

#### 16. Electrochemical Fuel Cells for Oxygen Measurement

In recent years a wide range of portable flue gas analysers based on electrochemical fuel cell technology are available. In certain multi-component analyser applications, O<sub>2</sub>measurement is made using these cells. A typical cell used for the measurement would be of the metal air battery type comprising an anode, electrolyte and an air cathode.

Reaction takes place at the anode and cathode. During reaction, current is generated which is proportional to the oxygen content of the sample gas. The cross sensitivities of this cell are minimal and the use of gas filters, as used for CO or SO<sub>2</sub> measurement with electrochemical cells, is not normally required. Additionally, the problem of overloading (where the concentration is well above the measurement range) that causes problems for other sensors is not a problem for the O<sub>2</sub> cell due to the nature of the combustion process, as O<sub>2</sub> concentration in excess of 21 % are not possible.

Recent advances have led to  $O_2$  cells designed for continuous use that have been incorporated into the continuous analysers discussed above. Measurement of  $O_2$  would appear to be the most reliable and accurate measurement that can be made with flue gas analyser using fuel cell technology. This is approved technique with TUV/MCERT for  $O_2$  measurement for normalization of CEMS measurement as it does not monitor pollutant but  $O_2$  as a diluant for normalization.

## 6.0 FLUE GAS FLOW / VELOCITY MONITORING TECHNIQUES

Most commercially available flue gas flow monitors operate using one of the five principles for measuring velocity and volumetric flow: ultrasonic pulse detection, differential pressure, thermal detection (convective cooling), audible acoustic detection and optical scintillation. The five varieties of flow monitors are stack or duct mounted and operate as a component (including a microcomputer, pressure transmitters, and temperature transmitters) of a system. Other types of flow monitoring systems are available:

#### 6.1 Ultrasonic Flow Monitors

The volumetric flow rate of stack gas is measured by transmitting ultrasonic pulses across the stack in both directions. Ultrasonic flow monitors are also available in probe design with the instrument being installed on one side of the stack only, while having a shorter measurement length to cross stack instruments; these instruments have the advantage of not needing mounting and platforms at two different heights on the stack.

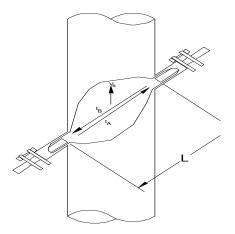


Figure 6.1: Ultrasonic Flow Monitor

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The tone pulses are accelerated or retarded due to the gas velocity in the stack. The time required for traversing the distance of the stack with and against the flow is a function of the sound velocity and the effluent velocity. Stack flow can be calculated based on the difference in the time required to traverse the stack in both directions. The ultrasonic pulses must traverse the stack or duct at a minimum angle of 10 degrees; however, traverses between angles of 40 and 70 degrees tend to provide the best results, as long as the traverse path length is not so long that the ultrasonic pulses become difficult to detect.

#### 6.2 Differential Pressure Flow Monitors

The S-type Pitot tube is designed as per the design of Stausscheibe or reverse type Pitot. The probe is constructed of two in-line tubes. The sampling point of the probe consists of two opposing open faces perpendicular to the traverse axis. A side view of the probe resembles two stacked tubes with the ends tapered away from one another and the openings planed parallel to the horizontal axis. The Fechheimer Pitot probe consists of flow sensors mounted on two multipoint averaging manifolds. The probe design consists of two manifolds (tubes) welded together with a truss plate. The truss maintains a distance between the manifolds in a plane perpendicular to the flow and the stack wall. One manifold averages multiple points of impact pressure, and the other averages multiple points of wake pressure. The impact and wake pressure averages are registered by the flow transmitter. This technology is used in numerous gas flow monitoring applications other than flue gas. Other types of noncontact flow monitors are also available in market.

#### 6.3 Thermal Flow Monitors

Thermal flow monitors measure the electric power required to maintain a constant temperature of approximately 24 to 38°C above the exhaust gas temperature in a flow sensor. The monitors are available for both single-point and multipoint analysis, and non- sensing components of the systems can be constructed from various corrosion- resistant metals.

#### 6.4 Infrared Correlation

Light based noncontact devices are also suitable for velocity measurement in flue gas.



**Table 3: Flow Meter Selection Matrix** 

		Types of Flow (Velocity meter)								
Parameters	Impact Differential Pressure (Pitot Tube)		Thermal	Bi-directional	Infrared					
Irregular Flow	Single point	Multiport	anemometer <sup>1</sup>	ultrasonic	correlation					
Wet stack	×	✓	✓	✓	✓					
Max Flue Gas Temperature	Up to 1200°C	Up to 12000°C	200 – 300 °C (model specific)	450° C - 850°C (model specific)	Up to 1000 °C					
Low speed	×	3 m/s	×	✓	✓					
High Speed	×	35 - 50 m/s	✓	✓	✓					
Calibration	Factory / Site	Factory / Site	Factory / Site <sup>3</sup>	Factory / Site	Factory / Site					

- 1. Pressure Transmitter (PT) and Temperature Transmitter (TT) are not installed with a Thermal Anemometer as it directly measures Mass Flow which is usually the required quantity. However, PT and TT are necessary to calculate density and convert mass flow calculated by the anemometer to volumetric flow.
- 2. Can be accounted for by using multiple probes/sensors
- 3. Calibration depends on physical properties (thermal conductivity, specific heat) of the gas whose flow is to be measured. Thus variation in properties of stack gas from factory calibrated values can result in inaccurate measurement.

#### 7.0 ASSESSMENT OF MONITORING TECHNOLOGIES

The suitability of the technologies/instrumentation for monitoring the stack emission quality in different matrices, considering the limitations of the technologies, the varying Indian environmental conditions were assessed. Issues related to the utilities and maintenance required, operating costs, etc., wherever available were also considered. The parameters for online monitoring for various sectors of industries are specified at **Annexure-I**. The comparative chart depicting working limitations, including, specifications of above said technologies for measurement of particulate matter and gaseous pollutant is depicted in **Table-4** and **5**.

**Table-6** depicts the composition analysis of available technologies for measurement of particulate matter and gaseous pollutants.

The prevailing industry specific emission standard and stacks in industries where CEMS are to be installed along with the CEMS options available for monitoring are presented in **Table-7**.

**Table 4: PM CEMS Technology Applications and Limitations** 

Measurement Technology			Stack		ntration g/m³)		Self-ch	ecks				Type of dust		Velocity
		Technology	Diameter (m)	Min	Max	Filter Type	Sensor contamination check	Zero & span	Dry	Humid	Wet	Same	Changing	Dependant
	Charge Induction (AC)	ElectroDynamic	0.2-4	0.05	1000	Bag,Cyclone, Drier,Scrubber <sup>(5)</sup> , None <sup>(6)</sup>	√ (7)	√ (7)	<b>V</b>	V	х	<b>v</b>	х	No <sup>(B)</sup>
Probe Electrifica tion	Contact Charge Transfer (DC)	DC Triboelectric	0.2-2	1	1000	Bag,Cyclone, None <sup>(6)</sup> ,ESP <sup>(10)</sup>	х	х	<b>V</b>	х	ж	<b>v</b>	x	Yes
	Combination AC & DC	Combination AC & DC/ Tribo	0.2-2	1	1000	Bag,Cyclone, None <sup>(6)</sup>	х	√ (7)	<b>*</b>	х	х	<b>v</b>	х	Yes
Transmiso metry	Ratiometric Opacity	Dynamic Opacity	1-15(1)(2)(7)	10 <sup>(3)</sup>	1000	Bag <sup>(1)</sup> ,Cyclone,EP,None	~	√ (7)	<b>✓</b>	х	ж	V	х	No
		Dyanamic Detection Principle	1-10(1)(2)	20	1000	Bag <sup>(1)</sup> ,Cyclone,EP,None	~	x	<b>√</b>	x	×	<b>v</b>	х	No
	Opacity	Opacity	2-10(1)(2)	30(4)	1000	EP,None	<b>√</b>	<b>√</b>	<b>*</b>	x	×	V	х	No
		Non Comliance Transmittance	2-10(1)(2)	30[4]	1000	EP,None	х	х	<b>V</b>	х	х	V	х	No
Scattered Light	Light Scattering	Forward Scatter	1-3(2)	0.1	200	Bag,Cyclone,EP,None	<b>✓</b>	<b>√</b>	<b>*</b>	<b>*</b>	√(9)	v	х	No
	Light Scattering	Backward / Side Scatter	1-4[1][2]	25	500	Bag <sup>(1)</sup> ,Cyclone,EP,None	<b>*</b>	~	<b>*</b>	х	х	V	х	No

Notes: (1) Concentration dependent

(5) No water droplets

(9) Using extractive wet stack monitoring system

(2) Representative Flow dependent (6) No filter-not advised

(10) Advised with Faraday Shield/edge

(3) Application specific

(7) Model specific

(4) Stack diameter dependent

(8) Varying velocity range 8-20 m/sec

There are a number of Opacity instruments with TUV approvals for particulate measurement. The certification ranges for opacity monitor are dependent on path length. The measuring range of 0-1000mg/m3 is suggested for a path length of 0.5 to 15 mt. However, low range i.e. 0 to 10 mg/Nm3 can be monitored in stack with minimum 5m path length.

This information is meant as a guide and reflects the majority of technology limitations of instruments currently commercially available, however specific models may offer decreased or increased capability the actual stack conditions will dictate instrument suitability



Table 5: Overview on Technical Selection & Suitability for Gaseous CEMS Technology

Technique	Туре	Parameter(S) Measured	Comments& Limitations
Chimiluminescence  UV Fluorescence	Dilution Extractive	NO, NO <sub>x</sub> , NO <sub>2</sub> *  (Technology not suitable for other emission parameters like SO <sub>2</sub> , CO <sub>2</sub> , CO etc.)	<ul> <li>Indirect method for NO2 measurement.</li> <li>NO and NOX (NO + converted other Nitrogen oxides) measured in two cycles *NO2 estimated as calculated (NOx - NO).</li> <li>Used for stack emission measurement with additional accessories like dilution probe, sample transfer line, dilution air, pumps and ozone generator. Advantageous in industries where heating probe and transfer lines are avoided. i.e. refinery, Petro chemicals.</li> <li>Requires efficient purification system for dilution air.</li> <li>Quench Effect of CO2/water vapour, etc. maintaining Low Pressure becomes important. Can be eliminated by increased O3 flow and requires continuous efforts and mechanism for it.</li> <li>* H<sub>2</sub>S, TRS Cannot be measured</li> </ul>
	Extractive	(Total Reduced Sulphur)  (Technology not suitable for other emission parameters like NOx, CO <sub>2</sub> , CO etc.)	simultaneously with SO <sub>2</sub> .  - Direct method for SO2  -Used for stack emission measurement with additional accessories like dilution probe, sample transfer line, dilution air, pumps etc.  - Advantageous in industries where heating probe and transfer lines are avoided. i.e. refinery, Petro chemicals.  - Quench Effect of CO <sub>2</sub> /Moisture, etc. maintaining Low Pressure becomes important.
NDIR (IR GFC, CFM-NDIR and NDIR)  Basic principle follows IR (Infra- Red) spectroscopy GFC or CFM are applied techniques only.	In-Situ &Extractive	CO, CO <sub>2</sub> , SO <sub>2</sub> , NOx,CH4, HCI, H <sub>2</sub> O etc.	<ul> <li>A direct method for continuous monitoring of multiple gases without any dilution.</li> <li>Suitable for high concentrations</li> <li>The IR technology has limitation that it can measure only NO. For measurement of NOx a convertor to reduce other oxides of nitrogen to NO is required.</li> </ul>

Technique	Туре	Parameter(S) Measured	Comments& Limitations
			<ul> <li>In-situ NDIR analyser uses Internal optical filters (GFC) for removal of interferences of other gases.</li> <li>In extractive NDIR Issue of disolution and stripping of CO<sub>2</sub>/ SO<sub>2</sub> can under estimate the measured concentration, in case calibration does not follow the same system of sample transfer. Maintaining Low Pressure becomes important.</li> </ul>
NDUV	In-situ and Extractive	SO <sub>2</sub> , NO, NO <sub>2</sub> , NH <sub>3</sub> ,Cl <sub>2</sub> , CS <sub>2</sub> , etc.	<ul> <li>A direct method for continuous monitoring of multiple gases suitable upto 2-3 gas measurements without any dilutions.</li> <li>Popular in harsh applications in wide spectrum of Industrial process.</li> <li>For NH<sub>3</sub> Hot wet extractive and Dilution system are suitable.</li> </ul>
Fourier Transformed Infra-Red (FTIR)	Extractive	CO, CO <sub>2</sub> , SO <sub>2</sub> , NO, NO <sub>2</sub> , N <sub>2</sub> O, NH <sub>3</sub> ,HF, HCI, CH <sub>4</sub> , Moisture (H <sub>2</sub> O), VOC, etc.	<ul> <li>A direct method for continuous monitoring of multiple gases up to 5 - 12 gases using high end spectroscopy technique.</li> <li>H<sub>2</sub>O measurement in FTIR spectroscopy is necessary for moisture correction.</li> <li>Uses Hot Wet Preferred technique for complex stack gas matrix like waste Incinerators or waste to power plants, alternative fuels fired Cement Plants, with high moisture and soluble gases.</li> <li>High Price, however, with multi complex gases and integrated modules like VOC, O<sub>2</sub> makes it cost effective over all solution.</li> <li>Ideal for very low concentration of NH<sub>3</sub>, HF, HCI</li> </ul>
Differential Optical Absorption Spectroscopy (DOAS)	Open Path cross duct	NO, NO2, SO2 NH3, Hg with DOAS- UV CO, CO <sub>2</sub> , HCI, CH4, VOC, H2O, HF etc. DOAS-IR	<ul> <li>Suitable of monitoring of multiple gases.</li> <li>Suitable for trace measurements</li> <li>Indirect measurement technique.</li> <li>Stable, comparatively low calibration requirements.</li> <li>Measurement of Hg requires its conversion to elemental form for UV DOAS for which the system is required to be equipped with heated gas probe, heated sample transfer line and heated measurement cell. Removal of SO2</li> </ul>

Technique	Туре	Parameter(S) Measured	Comments& Limitations		
			interference is essential in case of UV measurement of mercury.		
Flame Ionization	Extractive	Total HC (VOC), TOC, VOC	-Very selective technique for Total H TOC/VOC. Requires H <sub>2</sub> gas for flame and carr Gas. -Integrated with extractive Hot wet / co dry techniques.		
Tunable Diode Laser	Path	CO, CO <sub>2</sub> , NH <sub>3</sub> , Moisture (H <sub>2</sub> O), HCI, HF, CH <sub>4</sub> , O <sub>2</sub> & H <sub>2</sub> S etc.	Usually selective laser techniques are not cost effective for single component.  - Limitation in measuring SO <sub>2</sub> and NO <sub>x</sub> due to lack of selectivity.  - Measurement of H <sub>2</sub> O for moisture correction is necessary.		
Electrochemical	Extractive	O <sub>2</sub> , CO/CO <sub>2</sub> , etc.	-Not accepted for online stack emission monitoring in IndustriesElectrochemical sensor is a consumable sensor, requires regular replacement and gets influenced by process stack background gas matrix Also gets influenced by moisture, dust, temperature, etc.		
Zirconium Oxide /	In-situ&	O <sub>2</sub>	Widely used for boiler/ Stack O <sub>2</sub>		
O <sub>2</sub> Cell Paramagnetic	Extractive Extractive	O <sub>2</sub>	correction/ Normalisation. Stable and accurate.		
Atomic fluorescence / absorption	Hot Extractive	Hg	Total Gaseous Mercury. Always Hot extractive system A) Pre-treatment options Gold Amalgamation Followed by chemical/ thermal desorption (B) Adsorption in other media followed by Thermal desorption and measured using either atomic absorption/ atomic fluorescence / UV DOAS / UV measurement (after removal of SO2 interference/ Zeeman correction) are acceptable. For atomic absorption, Mercury lamp (NOT UV LAMP) should be used as energy source		

## Notes:

- (a) CEM Systems must have flue gas flow measurement device installed where load based standards are stipulated.
- (b) Direct measurement systems for  $O_2$  or  $CO_2$  as prescribed in respective standards shall be installed.
- (c) For hazardous waste incinerator and Biomedical waste incinerator O2, CO2, and CO are important parameters to be monitored online.



Table 6: Comparative analysis of technologies available for measurement of Gaseous pollutant

	Extractive NDIR/	<b>,</b>	DOAS (Differential		TDLS	FTIR
Type of Technology	IR GFC/ IR CFM and NDUV	In-situ NDIR & IR GFC	Optical Absorption Spectroscopy)	DILUTION EXTRACTIVE	IDES	
How it works	Gas is extracted from stack, transported to sampling system, gas is conditioned and analyzed with a multi-gas NDIR analyzer	Optical head is directly mounted on the stack, by measuring light absorbed the analyzer measures the gases	Emitter, Receiver mounted across the stack. Xenon lamp emits light, amount of light absorbed at receiver sent to analyser through Optic Fibre cable	Very small amount of gas Extracted (Diluted) from stack to the analyser.	Derivative Laser spectroscopy which scan the spectral absorption peak and measure the derivative peak respective to be measurable parameters. It may be path insitu, close coupled, extractive system.	This methodology is strictly hot wet extractive. FTIR is a special type of spectroscopy in which spectrum is further analysed through an interferometric algorithm.
Advantage	-Suitable for high level of concentrationLow failure rates as analyzer is not exposed to outside conditions, -easy to maintain when analyser is at ground, -addition of new analyzer at a later date is easyusually requires more calibration checks -widely used technique in harsh process applications -useful with close coupled technique	-Suitable for high levels of concentrations Proper purging system is mandatory -Difficult to maintain at height -Addition is very simple, just new parameter monitoring arrangement requiredUsually requires more calibration checks as the system works in harsh/rough condition.	-can measure low and high concentrations -No sampling requirement, except for mercuryLow maintenance as there is no moving partWorks well in harsh conditions like High moistureProvide High Data capture rateSingle analyser can be used for multiparameter monitoringRequires less calibration because of low drift.	-can measure low and high concentrations -sample is easy to dry -Ambient analysers technologies deployedDilution ratio can be varied to reduce the interferences.	-Multi-parameter monitoring is possible  - Tuneable diode laser system is sensitive and can work in wet condition also.  - Advantageous for Ammonia, HF, HCI monitoring alongwith H <sub>2</sub> O	-It is multi parameter monitoring technique suitable for most parameters except O2suitable for most of the industries except for those such as petrochemical, refineries etc. where possibility of explosion and safety is a concern.



Type of Technology	Extractive NDIR/ IR GFC/ IR CFM and NDUV	In-situ NDIR & IR GFC	DOAS (Differential Optical Absorption Spectroscopy)	DILUTION EXTRACTIVE	TDLS	FTIR
Limitations	-Installation takes more time -Measures NO and not NO <sub>2</sub> -AC Rooms	-The complete analyser system along with calibration equipment needs to be installed at stack and would require adequate arrangement for maintenance and calibration -Cannot measure low levels, -No expansion possible beyond the capacity of one device (Number of filters in the system), -consumes comparatively more calibration gas, -stack gas may corrode the probe and optics, -water interference is observed -Generally Measures NO not NO2Expected life is less in comparison as system is exposed to harsh conditions	- High Initial cost - Requires converter for Hg for which only extractive system should be usedCalibration frequency requirement is low but needs a separate calibration benchAC Rooms	-More time required for calibration as the calibration gases will pass the complete system from analyser till probe.  - Dilution ratio  - Operation of critical orifice  -Maintaining dilution gas quality is challenging.  -Individual analyser required for each parameter.  -AC Rooms	- High cost -Cannot measure SO2 and NOx . AC Rooms	- High cost -AC Rooms
List of gases that can be measured	CO, CO <sub>2</sub> , NO. So <sub>2</sub> , CH <sub>4</sub> , etc, Moisture (number of gases limited to number of filters fitted in analyzer.	CO, CO <sub>2</sub> , NO, SO <sub>2</sub> , CH <sub>4</sub> , HCl, Moisture (Note IR based system does not measure NO <sub>2</sub> only calculates)	UV analyser- SO <sub>2</sub> , NO, NO <sub>2</sub> Phenol, Cl <sub>2</sub> , Formaldehyde, Benzene, Hg	SO <sub>2</sub> , NO, NO <sub>2</sub> (NO <sub>x</sub> ), CO	CO,CO2,NH3,H2O, HCL, HF,O2 and H2S	SO2,NO,NO2,CO, CO2, NH3,H2O, HCL, HF and O2



Type of Technology	Extractive NDIR/ IR GFC/ IR CFM and NDUV	In-situ NDIR & IR GFC	DOAS (Differential Optical Absorption Spectroscopy)	DILUTION EXTRACTIVE	TDLS	FTIR
	(Note IR based system does not measure NO <sub>2</sub> , only calculates)	NO2 monitoring possible when convertor is used	IR analyser- CO, CO <sub>2</sub> , HCL, HF, H <sub>2</sub> O, SO <sub>3</sub> , NH <sub>3</sub> , N <sub>2</sub> O, CH <sub>4</sub>			
	NO2 monitoring possible when convertor is used					
Effect of dust	Higher effect but	Higher effect but can	Low	Low	-	-
	can be controlled at sampling point	be controlled with inbuilt mechanism		Dilution probe clogging to be tackled		
Effect of	-	Limited Temperature	-	Less than	-	-
temperature		Works upto 500 degC		400°C ( Dilution probe with Quartz Orifice suitable upto 800°C		
Effect of pressure	-	Limited Pressure	-	-	-	-
Effect of moisture	low as removed or Hot Wet	Very much affected, need to measure H2O online Cannot work below dew point (below 95 degC)	If moisture over 40%, instrument gets effected	Gets affected at high moisture conditions. Can be controlled through properly dried dilution air	-	-
Requirement						
Adjustment	Not allowed	Not allowed	-	Not allowed	Not allowed	Not allowed
during Zero and Span Check	Zero and span check data needs to be transferred at real time	Zero and span check data needs to be transferred at real time	Zero and span check data needs to be transferred at real time	Zero and span check data needs to be transferred at real time	Zero and span check data needs to be transferred at real time	Zero and span check data needs to be transferred at real time
Calibration & Check frequency	-Daily ZERO Check	- Daily ZERO Check -Fortnightly ZERO	-Diagnostic check in every cycle	-Daily ZERO Check -Fortnightly ZERO and	-Diagnostic check in every cycle	-Diagnostic check in every cycle
	-Fortnightly ZERO and SPAN Calibration	and SPAN Calibration -Six Monthly	-Six monthly ZERO and SPAN Calibration -Yearly Linearity Check	SPAN Calibration -Six Monthly Linearity Check	-Six monthly ZERO and SPAN Calibration	-Six monthly ZERO and SPAN Calibration
	-Six Monthly Linearity Check	Linearity CheckAfter Major maintenance	After Major maintenance multipoint	After Major	-Yearly Linearity Check	-Yearly Linearity Check



Type of Technology	Extractive NDIR/ IR GFC/ IR CFM and NDUV	In-situ NDIR & IR GFC	DOAS (Differential Optical Absorption Spectroscopy)	DILUTION EXTRACTIVE	TDLS	FTIR
	After Major maintenance multipoint Zero and SPAN Calibration	multipoint Zero and SPAN Calibration	Zero and SPAN Calibration	Zero and SPAN Calibration	After Major maintenance multipoint Zero and SPAN Calibration	After Major maintenance multipoint Zero and SPAN Calibration
Approvals for analyzers	TUV / MCERT approvals and conforms to US EPA / Indian certification	MCERT/TUV however, US EPA does not recommend In-situ system. / Indian certification	TUV, MCERTS and meets USEPA calibration protocols / Indian certification	Only conforms to USEPA / Indian certification	EU-TUV/MCERT / Indian certification	EU-TUV/MCERT / Indian certification
Multiplexing possible Y/N	NOT allowed as of now	NOT allowed as of now	NOT allowed as of now	NOT allowed as of now	NOT allowed as of now	NOT allowed as of now
Remote calibration Y/N	YES	YES	YES Possible with installation of calibration bench at site	Yes Dilution mechanism has to be compatible	Yes	Yes
Manual Online calibration Y/N	YES	YES	YES	YES	Yes	Yes

Note: Guidelines for calibration are in general. Wherever there are specific issues or difficulties related to method of remote calibration in different technologies, same should be brought into the notice of CPCB & SPCBs/PCCs.



Table 7: Parameter specific Emission Standards for industries need to install CEMS

S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed		Emission Limi	ts	Options available for CEMS
1	Aluminum	Raw Material Handling	PM	PM 150 mg/NM <sup>3</sup>			PM CEMS as per matrix Table no:4
		Calcination PM, CO PM 250 mg/NM³ and CO 1% (Max)				()	PM CEMS as per matrix Table no:4
		Green Anode Shop	PM	PM 150 mg/NM <sup>3</sup>			PM CEMS as per matrix Table no:4
		Anode Bake Oven	PM	PM 50 mg/NM <sup>3</sup>			PM CEMS as per matrix Table no:4
			Total fluoride (F)	0.3 Kg/MT of Al			Extractive FTIR In-situ IR-DOAS,TDLS
		Pot room	PM	PM 150 mg/NM <sup>3</sup>			PM CEMS as per matrix Table no:4
			Total Fluoride (as F)	Vertical Stud Sode	<b>.</b> ,	4.7 Kg/MT	Extractive FTIR
			(as F)			6.0 Kg/MT	In-situ IR-DOAS,TDLS
						2.5 Kg/MT	Extractive FTIR
				Prebacked Centre	Worked PBCW)	1.0 Kg/MT	In-situ IR-DOAS,TDLS
2.	Cement Plant (without co processing), Standalone	Rotary Kiln – without co processing	Parameter	Date of Commissioning	Location	Emission Limits mg/Nm3	CEMS Options
	Clinker Grinding Plant or, Blending Plant	inker inding Plant , Blending	PM	on or before or after the date of notification (25.8.2014)	anywhere in the country	30 mg/Nm3	PM CEMS as per matrix Table no:4
			SO <sub>2</sub>	Irrespective of date of commissioning	Anywhere in the country	100, 700 and 1000 mg/Nm3 when pyritic sulphur in the limestone is less than 0.25%, 0.25 to 0.5% and more than 0.5% respectively	In-situ NDIR / IR GFC/UV-DOAS  Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM  Dilution extractive



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed		Emission Lim	its	Options available for CEMS
			NOx	After the date of notification (25.8.2014)	Anywhere in the country	600 mg/Nm3	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM Dilution Extractive -
				Before the date of notification (25.8.2014)	Anywhere in the country	(a) 800 for rotary kiln with In Line Calciner (ILC) technology. (b) 1000 for rotary kiln using mixed stream of ILC, Separate Line Calciner (SLC) and suspension preheater technology or SLC technology alone or without Calciner.	Chemiluminescence In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, IR GFC, NDIR-CFM
							Dilution Extractive - Chemiluminescence
	Cement Plant with co- processing of	co- with co- essing of processing of	Parameters	Date of Commissioning	Location	Emission Limits mg/Nm3	CEMS Options
	wastes		PM	on or after the date of notification (25.8.2014)	Anywhere in the country	30 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO <sub>2</sub>	before the date of notification (25.8.2014)	polluted area or urban centres with population	100, 700 and 1000 mg/Nm3 when pyritic sulphur in the limestone is less than 0.25%,	In-situ NDIR / IR GFC/UV- DOAS  Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
					above 1.0 lakh or within its periphery of 5.0 kilometer radius	0.25 to 0.5% and more than 0.5% respectively	Dilution extractive UV- Fluorescence



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Emission Limits			Options available for CEMS
		·	NOx	After the date of notification (25.8.2014)	Anywhere in the country	600 mg/Nm3	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM Dilution Extractive - chemiluminescence
			NOx	before the date of notification (25.8.2014)	anywhere in the country	(a) 800 mg/Nm3 for rotary kiln with In Line Calciner (ILC) technology. (b) 1000 mg/Nm3 for rotary kiln using mixed stream of ILC, Separate Line Calciner (SLC) and suspension preheater technology or SLC technology alone or without calciner.	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM Dilution Extractive - chemiluminescence
			Parameters	Implementation Date	Location	Emission Limits	CEMS Options
			HCI (mg/NM <sup>3</sup>	NA	Anywhere in the country	10 mg/Nm <sup>3</sup>	In-situ IR DOAS, TDLS,  Hot Extractive FTIR
			HF (mg/NM <sup>3</sup> )	NA	Anywhere in the country	1 mg/Nm³	In-situ IR DOAS, TDLS, Hot Extractive FTIR
			TOC (mg/NM <sup>3</sup> )	NA	Anywhere in the country	10 mg/Nm <sup>3</sup>	Hot Ext. FID
3	Distillery	Boiler Stack	PM	150 mg/NM <sup>3</sup>			PM CEMS as per matrix Table no:4



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Emission Limits		Options available for CEMS		
4	ChlorAlkli	(Hyper	Cl <sub>2</sub> , HCl	Cl <sub>2</sub> -15 mg/NM <sup>3</sup> HCL-35mg/NM3		IR DOAS, TDLS,  Hot Extractive FTIR		
		tower) (HCl Plant)						
5	Fertilizers	zers Phosphate	PM	PM-150 mg/NM <sup>3</sup>		PM CEMS as per matrix Table no:4		
			Fluoride	Total Fluorides-25 mg/NM <sup>3</sup>		Extractive FTIR In-situ IR-DOAS,TDLS		
		Urea (Old Plants) before 01/01/1982	PM	150 mg/NM <sup>3</sup>				
	Urea (New PM 50 mg/NM³ Plants) after 01/01/1982							
6	Integrated Iron & Steel Plants		PM	50 mg/NM <sup>3</sup>		PM CEMS as per matrix Table no:4		
			SO <sub>2</sub>	800 mg/NM <sup>3</sup>		In-situ NDIR / IR GFC/UV- DOAS		
						Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM		
						Dilution extractive UV- Fluorescence		
			NOx		500 mg/NM <sup>3</sup>		In-situ UV-DOAS, NDIR, IR GFC	
								Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM
						Dilution Extractive - chemiluminescence		
		Sintering Plant PM		150 mg/NM <sup>3</sup>		PM CEMS as per matrix Table no:4		
		Blast Furnace		Existing Units	New Units (after 31 March 2012)			
			PM	50 mg/NM <sup>3</sup>	30 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4		



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Emission Limits		Options available for CEMS
			SO <sub>2</sub>	250 mg/NM <sup>3</sup>	200 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV-DOAS Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM Dilution extractive UV-Fluorescence
			NOx	150 mg/NM³	150 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM Dilution Extractive - Chemiluminescence
			СО	1% (Max)	1% (Max)	NDIR Insitu Extractive FTIR
		Steel making shop-basic oxygen furnace	Parameters	Existing Units	New Units (after 31 march 2012)	
		Blowing/lancing operation	PM	300 mg/NM <sup>3</sup>	Should be with gas recovery	PM CEMS as per matrix Table no:4
		Normal operation	PM	150 mg/NM <sup>3</sup>	Should be with gas recovery	PM CEMS as per matrix Table no:4
		Dedusting of desulphurisation	PM	100 mg/NM <sup>3</sup>	50 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
		Rolling mill	PM	150 mg/NM <sup>3</sup>		PM CEMS as per matrix Table no:4
		Re-heating (reverberatory)	PM	Sensitive Areas 150 mg/NM <sup>3</sup>	Other Areas 250 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
		Arc furnaces	PM	150 mg/NM <sup>3</sup>		PM CEMS as per matrix Table no:4



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Emission Limits  150 mg/NM <sup>3</sup>		Options available for CEMS
		Induction Furnace	PM			PM CEMS as per matrix Table no:4
		Cupola Foundry		< 3 MT / hr Melting capacity	> 3 MT / hr Melting capacity	
			PM	450 mg/NM <sup>3</sup>	150 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO2	300 mg/NM³ Corrected to 12 % CO2		In-situ NDIR / IR GFC/ UV-DOAS
						Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
						Dilution extractive UV- Fluorescence
				Capacity upto 40 Tonne day	Tonne / day	
		Calcination plant/lime kiln / dolomite kiln	PM	500 mg/NM <sup>3</sup>	150 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
		Refractory unit	PM	150 mg/NM <sup>3</sup>		PM CEMS as per matrix Table no:4
	Sponge Iron Plants	Rotary Kiln	PM	100 mg/NM³ (Coal based	d)	PM CEMS as per matrix Table no:4
				50 mg/NM³ (Gas based)		PM CEMS as per matrix Table no:4
7	Oil Refinery	Refinery Furnace boiler and captive power plant gas based		Before 2008	After 2008	
			PM	10 mg/NM <sup>3</sup>	5 mg/NM <sup>3</sup>	PM CEMS as pe matrix Table no:4
			SO <sub>2</sub>	50 mg/NM <sup>3</sup>	50 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/ UV-DOAS
						Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
						Dilution extractive UV- Fluorescence



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	En	nission Limits	Options available for CEMS
			NOx	350 mg/NM <sup>3</sup>	250 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV/ FTIR, NDIR GFC, NDIR-CFM Dilution Extractive - chemiluminescence
			СО	150 mg/NM <sup>3</sup>	100 mg/NM <sup>3</sup>	NDIR Insitu  Extractive FTIR, NDIR GFC / NDIR CFM
			H <sub>2</sub> S	150 mg/NM <sup>3</sup>	150 mg/NM <sup>3</sup>	TDLS/FTIR/IR DOAS However H2S and SO2 can not be measured simultaneously.
		Furnace boiler		Before 2008	After 2008	
		and captive power plant	PM	100 mg/NM <sup>3</sup>	50 mg/NM <sup>3</sup>	PM CEMS as pe matrix Table no:4
		liquid Fuel based	SO <sub>2</sub>	1700 mg/NM <sup>3</sup>	850 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV-DOAS  Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM  Dilution extractive UV-Fluorescence
			NOx	450 mg/NM <sup>3</sup>	350 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM Dilution Extractive - chemiluminescence
			СО	200 mg/NM <sup>3</sup>	150 mg/NM <sup>3</sup>	NDIR In situ  Extractive FTIR, NDIR GFC / NDIR CFM



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	E	Emission Limits	Options available for CEMS
		Sulphur Recovery Unit	Parameters	Existing SRU	New SR (after 1.1.2008)	
		(SRU)	H <sub>2</sub> S	15 mg/NM <sup>3</sup>	10 mg/NM <sup>3</sup>	TDLS/FTIR/IR DOAS However H <sub>2</sub> S and SO <sub>2</sub> cannot be measured simultaneously.
			NOx	350 mg/NM <sup>3</sup>	250 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC
						Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM
						Dilution Extractive – Chemiluminescence
			СО	150 mg/NM <sup>3</sup>	150 mg/NM <sup>3</sup>	NDIR In situ
						Extractive FTIR, NDIR GFC / NDIR CFM
8	Petrochemical Furnace, Boiler, Heater, Vaporizer Liquid			Existing Plant	New / Expansion (after 9 <sup>th</sup> Nov. 2011)	
		Fuel based	PM	100 mg/NM <sup>3</sup>	50 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO <sub>2</sub>	1700 mg/NM <sup>3</sup>	850 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV- DOAS
						Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
						Dilution extractive UV- Fluorescence
			NOx	450 mg/NM <sup>3</sup>	350 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC
				-		Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM
						Dilution Extractive - Chemiluminescence
			CO	200 mg/NM <sup>3</sup>	150 mg/NM <sup>3</sup>	NDIR In situ
						Extractive FTIR, NDIR GFC / NDIR CFM



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Em	ission Limits	Options available for CEMS
		Furnace, Boiler, Heater,		Existing Plant	New / Expansion	
		Vaporizer Gas based	PM	10 mg/NM <sup>3</sup>	5 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO <sub>2</sub>	50 mg/NM <sup>3</sup>	50 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV- DOAS Extractive NDUV / FTIR / NDIR /
						IR-GFC / IR-CFM Dilution extractive UV- Fluorescence
			NOx	350 mg/NM <sup>3</sup>	250 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR
						GFC, NDIR-CFM  Dilution Extractive - Chemiluminescence
			СО	200 mg/NM <sup>3</sup>	150 mg/NM <sup>3</sup>	NDIR In situ
						Extractive FTIR, NDIR GFC / NDIR CFM
9	Power Plant **	TPP installed before		Less than 500 MW	More than 500 MW	
		31/12/2003	PM	100 mg/NM <sup>3</sup>	100 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO <sub>2</sub>	600 mg/NM <sup>3</sup>	200 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV- DOAS
						Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
						Dilution extractive UV- Fluorescence
			NO <sub>x</sub>	600 mg/NM <sup>3</sup>	600 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC
						Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM
						Dilution Extractive – Chemiluminescence



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Emis	ssion Limits	Options available for CEMS		
			Hg	0.03 mg/NM <sup>3</sup>	0.03 mg/NM <sup>3</sup>	Total Gaseous Mercury. Always Hot extractive system A) Pre-treatment options Gold Amalgamation Followed by chemical/ thermal desorption (B) Adsorption in other media followed by Thermal desorption and measured using either atomic absorption/ atomic fluorescence / atomic absorption / UV DOAS / UV measurement (after removal of SO2 interference / Zeeman correction) are acceptable. For atomic absorption, Mercury lamp (NOT UV LAMP) should be used as energy source		
		TPP Installed on & after		Less than 500 MW	More than 500 MW			
		01/01/2004 upto 31/12/2016	01/01/2004 upto	01/01/2004 upto	PM	50 mg/NM <sup>3</sup>	50 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO <sub>2</sub>	600 mg/NM <sup>3</sup>	200 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV-DOAS  Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM  Dilution extractive UV-Fluorescence		
			NOx	300 mg/NM <sup>3</sup>	300 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM Dilution Extractive – Chemiluminescence		



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Em	ission Limits	Options available for CEMS
			Hg	0.03 mg/NM <sup>3</sup>	0.03 mg/NM <sup>3</sup>	Total Gaseous Mercury, Always Hot extractive system A) Pre-treatment options Gold amalgamation Followed by chemical/ thermal desorption (B) Adsorption in other media followed by Thermal desorption and measured by either Cold vapour atomic fluorescence / Cold Vapor atomic absorption / UV DOAS / UV measurement (after removal of SO2 interference) are acceptable. For atomic absorption, Mercury lamp (NO UV LAMP) should be used as energy source
		TPP to be installed from	PM	M 30 mg/NM <sup>3</sup>	30 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
		01/01/2017	SO <sub>2</sub>	1	00 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV-DOAS  Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM  Dilution extractive UV-Fluorescence
			NOx	1	00 mg/NM <sup>3</sup>	In-situ UV-DOAS, NDIR, IR GFC
						Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM
						Dilution Extractive – Chemiluminescence



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Emi	ssion Limits	Options available for CEMS
			Hg	0.0	D3 mg/NM <sup>3</sup>	Total Gaseous Mercury, Always Hot extractive system A) Pre-treatment options Gold amalgamation, followed by chemical/ thermal desorption (B) Adsorption in other media followed by Thermal desorption and measured by either Cold vapour atomic fluorescence / Cold Vapor atomic absorption / UV DOAS / UV measurement (after removal of SO <sub>2</sub> interference) are acceptable. For atomic absorption, Mercury lamp (NO UV LAMP) should be used as energy source
10	Zinc	Smelter, SRU		Existing Units	New Units (after 2 <sup>nd</sup> May 2011)	CEMS options available
			PM	100 mg/NM <sup>3</sup>	75 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO2 (for upto 300 T /day)	1370 mg/NM <sup>3</sup>	1250 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV-DOAS  Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM  Dilution extractive UV-Fluorescence
			SO2 (for > 300 T /day)	1250 mg/NM <sup>3</sup>	950 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV-DOAS  Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM  Dilution extractive UV-Fluorescence



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	E	mission Limits	Options available for CEMS
11	Copper	Smelter, SRU	Parameters	Existing Units	New Units (after 2 <sup>nd</sup> May 2011)	CEMS options available
			PM	100 mg/NM <sup>3</sup>	75 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
			SO2 (for upto 300 T /day)	1370 mg/NM <sup>3</sup>	1250 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV- DOAS
						Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
						Dilution extractive UV-Fluorescence
			SO2 (for > 300 T /day)	1250 mg/NM <sup>3</sup>	950 mg/NM <sup>3</sup>	In-situ NDIR / IR GFC/UV- DOAS
						Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
						Dilution extractive UV- Fluorescence
12	Biomedical waste	Incinerator Stack	PM	50 mg/NM <sup>3</sup>		PM CEMS as per matrix Table no:4
	Incinerator		NO <sub>x</sub> ,	400 mg/NM <sup>3</sup>		In-situ UV-DOAS
						Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM
						Dilution Extractive – Chemiluminescence
			HCI	50 mg/NM <sup>3</sup>		IR DOAS, TDLS,
			Temp. P.C.C.	800 °C		Temperature probe
			Temp. S.C.C.	1050 ± 50 °C		Suitable Temperature Probe
			Combustion Efficiency CO and CO <sub>2</sub>	99%		Extractive NDIR
13	Common Hazardous	Incinerator Stack	PM	50 mg/Nm3		PM CEMS as per matrix Table no:4
	Waste		HCI	50 mg/Nm3		In-situ IR DOAS, TDLS
	Incinerator		00	200 mag/Nima 2 200 mg	inute average	Hot Extractive FTIR, IR
			SO <sub>2</sub>	200 mg/Nm3 -30 m	imute average	In-situ NDIR / IR GFC/UV- DOAS



S. No.	Industries/ Facilities	Units of Operation	Parameters Prescribed	Emission Limits	Options available for CEMS
					Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM Dilution extractive UV-Fluorescence
			NOx	400 mg/Nm3	In-situ UV-DOAS  Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM  Dilution Extractive - chemiluminescence
			HF	4.0 mg/Nm3	In-situ IR DOAS, TDLS Hot Extractive FTIR
			TOC	20 mg/Nm3	Hot Extractive FID
			СО	100 mg/Nm3 -30 minute average 50 mg/Nm3 -24 Hrly average	NDIR In situ
					Extractive FTIR, NDIR GFC / NDIR CFM
14	Sugar	Boiler	PM	150 mg/NM <sup>3</sup>	PM CEMS as per matrix Table no:4
15	Sugar, Cotton Textile, Composite	Boiler (Other fuels)	SO <sub>2</sub>	600 mg/NM³ at 6% dry O2, for solid fuel and 3% dry O2 for liquid fuel	In-situ NDIR / IR GFC/UV- DOAS
	Woolen Mills, Synthetic				Extractive NDUV / FTIR / NDIR / IR-GFC / IR-CFM
	Rubber, Pulp & Paper, Distilleries.				Dilution extractive UV- Fluorescence
	Leather Industries, Calcium Carbide, Carbon Black, Natural Rubber, Asbestos, Caustic Soda, Small Boilers, Aluminium		NOx	600 mg/NM³ at 6% dry O2, for solid fuel and 3% dry O2 for liquid fuel	In-situ UV-DOAS, NDIR, IR GFC Extractive – NDUV / FTIR, NDIR GFC, NDIR-CFM Dilution Extractive – Chemiluminescence



Plants,			
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#### Note:

- Temperature measurement and reporting are compulsory for all installations.
- CO<sub>2</sub> and or O<sub>2</sub> as prescribed in notified standards for respective sectors and processes to be monitored.
- All the data has to be corrected to mass/volume at STP (760mm Hg Pressure and 25 degree C temperature in dry condition).
- All In-situ and Dilution extractive and Hot Wet Extractive systems shall monitor and report Moisture to correct the results in dry
  condition. Waste incineration plants including Hazardous waste incinerators and Waste to Energy plants requires continuous
  moisture monitoring.
- Installations using dilution techniques must inform CPCB and SPCBs/PCCs in case of any change in dilution ratio.
- NDIR based NOx analyzer ideally converts all NOX to NO for measurement purpose. 5% of total converted NO represents NO2. NDIR based In-situ Analyzers without converters are measuring NO and considering upto 5% of NO values as NO2 resulting under reporting of NOx. Hence, in order to correct the data special calculation as given below will be applied. Reported NO values will be multiplied by 1.05 and then 95% of the product will be considered as NO and 5% of the product will be considered as NO2. Final reporting shall follow the equation NOx = NO + NO2 = NO X 1.53+ NO2= NOX as NO2 In other cases, NOx values are required to be reported as NO2mg/NM3: NOx = NO + NO2 = NO X 1.53+ NO2= NOX as NO2 For the IR based instrument without converter the reported NO values will be multiplied by 1.05 and then 95% of the product will be considered as NO and 5% of the product will be considered as NO2. Final reporting shall follow the equation NOx = NO + NO2 = NO X 1.53+ NO2= NOX as NO2

In other cases NOx values are required to be reported as NO<sub>2</sub>mg/NM<sup>3</sup>:NOx = NO + NO<sub>2</sub> = NO X 1.53+ NO<sub>2</sub>= NOx as NO<sub>2</sub>

- Recommended to go for NO + NO<sub>2</sub> measurement for correct reporting as NO<sub>2</sub>
- Hg CEMS requirement is applicable for thermal power plants only in case such condition is specified in Environmental Clearance granted by MoEF&CC / SEIAA
- Formulae for data reporting are given in Annexure-II.

\*\* CEMS requirement applicable with the time period specified for compliance with the new emission norms for thermal power plants & as per Environmental Clearance Conditions specified by MoEF&CC.

\*\*\* Parameters for CEMS shall be as prescribed by SPCB/PCCs under Schedule II of Biomedical Waste Management Rules, 2016



# 8.0 SITE REQUIREMENT AND PREPARATION FOR MOUNTING OF CONTINUOUS EMISSION MONITORING SYSTEM

#### 1. Infrastructure and mounting

- a. All measurement ports in the stack / duct, etc. will have to be made available as per CEMs system requirement and confirming the regulatory requirement
- b. CEMs analyser mounting flanges needs to be welded/grouted as per the mounting guidelines furnished by the vendor.
- c. Industry to ensure availability of permanent, strong & reliable platforms at CEMs analyser mounting location with safe approach ladders or stair case (spiral) or elevator. Vertical ladders if provided, should have back guard, stair case if provided, should be with proper hand rail, steps should be evenly distributed with adequate height, length & width. Monkey ladder is not preferred in case the height of platform is more than 30 meter from the ground.
- d. For ease of maintenance work, the stack platform width for metallic stacks should be 800mm minimum & for concrete stack platform width should be minimum of 1000mm. All platforms should have hand rails.
- e. All the power cables, signal cables, instrument air tubing's should be properly laid & clamped so that should not be an obstacle for personnel movements.

#### 2. Utilities

- a. Uninterrupted power supply single phase, 110/ 230 VAC as applicable should be supplied up to the analyser mounting location
- b. Power supply should be properly earthed; lightning arrestor wire line & earthing cable wire line should be separate.
- c. Instrument air connection Clean and dry compressed air will have to be supplied by end user upto the analyser probe mounting location.
- d. Quality of instrument air shall depend upon the specific demand of parameter being measured.

#### 3. Safety

With respect to instrument safety, all the instructions in the vendor specific CEMs manual shall be followed. All flanges, ports must be well supported

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and welded as per required standards. Mounting bolts, etc. must be fully tight before commissioning. All personnel safety standards and procedures for working at height must be adhered to at site.

- a. If the approach to platform is by using vertical ladder's, then at every 10-12 mtrs landing platform should be provided. The entire length of ladder must have protective back guard/cage.
- b. Ladder must continue through platform approach to some distance above such that landing on platform is easy.
- Ladder must be well maintained with all fasteners rigidly fixed in the stack wall.
- d. The completed ladder network and stack has to be regularly inspected for corrosion and must be painted periodically.
- e. Platform railing must be rigid at least reach 1.2 mtr in height from platform surface.
- f. If analyser mounting location is above 45meter elevation then for ease of maintenance and personnel safety, proper stair case or lift/elevator should be provided
- g. Industry to ensure removal of bee hive from stack or stack nearby location before proceeding for any CEMs mounting/maintenance work on stack platform.

# 9.0 CALIBRATION, PERFORMANCE EVALUATION AND AUDIT OF CEMS

#### 9.1 Practices in other Countries

The calibration process for CEMS is well established in European Union and USA. The European Union follow EN 14181 which specifies procedures for establishing Quality Assurance level in terms of QAL 2, QAL 3 and Annual Surveillance Test (AST) for *CEMS* (*CEMS* is also called Automated Measurement Systems (AMS) in Europe) installed at industrial plants for flue gas parameters. In the UK QAL 1 procedures are covered by certification under MCERTS Scheme for Continuous Monitoring System. The suitability evaluation of CEMS and its measuring procedures are described in EN ISO 14956 (QAL 1), which subsequently became EN 15267-1.



The USEPA follows a different route by using Relative Accuracy Test Audit (RATA) for gases and Relative Response Assessment (RRA) for Particulate.

The difference between the European System and that followed in USA for

Quality Assurance of CEMS is given in **Table 8**.

Table 8: Difference between the two QA systems followed in European Union &USA

	Selection of CEM	Installation	Stability before calibration	Valid calibration	Ongoing instrumental stability	Ongoing calibration stability
EU	QAL1 (EN15267 parts 1 to 3) with appropriate certification range	EN15259	QAL3	Functional test and QAL2	QAL3 plus annual linearity	Functional test and annual surveillance tests (AST)
USA	None but legal onus on the operator to provide valid data	Field Performance Test	7-day drift test	Correlation tests over 3 days	Zero and Span plus, quarterly linearity test	Annual correlation test and Relative Accuracy Test Audits (RATA) for gases and Relative Response Assessment (RRA) for particulate

The system for Quality Assurance followed in European Union as well as in EPA requires a well-established infrastructure for calibration of the systems, for uncertainty calculations and performance evaluation besides requiring skills and expertise to support each CEM, since the CEM is specifically characterized and calibrated for the individual application.

#### 9.2 Recommended Instrumentation/Methodology for Monitoring

- a. The USEPA TUV & MCERTS certified analysers for emissions are recognized for use as CEMS. Any alteration invites invalidation of the certificate.
- b. All indigenous and foreign Manufacturers of analysers/ instruments for real time monitoring of industrial emissions shall obtain certificate for their system within twelve months after the Indian certification system is in place.
- c. The analysers/ instruments will not be considered for installation; in case their manufacturer fails to obtain the required certification from the Indian Certification Agency/ agencies within 12 months of the establishment of Indian Certification System.



#### 9.3 Acceptance of CEMS Until Indigenous Certification System is Placed

A CEMS to be used at installations covered by CPCB direction shall have to be proven suitable for its measuring task (parameter and composition of the flue gas) by use of the procedure equivalent to international standards (EPA PS or EN QAL Standards). It shall prove performance in accordance to the set performance characteristics during the field-testing.

The performance testing procedures involve all concerned including plant operator, vendor and testing laboratories. The industries shall submit details of the CEMS installed and operationalized as per in CPCB's Compliance Reporting Protocol (CRP) for OCEMS.

Field-testing is a procedure for the determination of the calibration function and its variability. In this process, variability of the measured values of the CEMS compared with the data quality objectives specified.

A calibration function is established from the results of a number of parallel measurements performed with a Standard Reference Method (SRM). The variability of the measured values obtained with the CEMS is then evaluated against the required criteria to satisfy the Data Quality Objective. The ranges/values mentioned in Tables below are technology specified and may slightly deviate from those specified.

Table 9: Performance Specification for SO<sub>2</sub>, NO<sub>X</sub> and CO

S.No.	Specification	Tolerance ranges/values		
1	Zero Drift/Weekly	≤±1 % of Span		
2	Span Drift /Weekly	≤±1% of Span		
3	Analyzer's Linearity	≤ ± 1 % of Span from calibration curve		
4	Performance Accuracy	≤ ± 10 % of compared Reference		
		measurement		

Table 10: Performance Specification for O<sub>2</sub>, and CO<sub>2</sub>

S.No.	Specification	Tolerance ranges/values
1	Zero Drift /Weekly	≤ ± 1 % of O <sub>2</sub>
2	Span Drift /Weekly	≤ ± 1 % of O <sub>2</sub>
3	Analyzer's Linearity	≤ ± 1 % of O <sub>2</sub>
4	Performance Accuracy	≤± 10 % of compared Reference
		measurement or within 1% of O <sub>2</sub>



**Table 11: Performance Specification for PM CEMS** 

S.No.	Specification	Tolerance ranges/values		
1	Zero Drift between two	≤ ± 2 % of Full Scale range		
	servicing intervals			
2	Reference point Drift between	≤ ± 2 % of Reference value range		
	two servicing intervals			
3	Analyzer's Linearity	The difference between the actual value and		
		the reference value must not exceed ±2		
		percent of full scale (for a 5 point check).		
4	Performance Accuracy	≤ ± 10 % of compared Reference		
		measurement		

**Table 12: Specification for Analyser** 

S. No.	Specification	Tolerance ranges or values
1	Zero Drift /Weekly	≤ 1 %
2	Span Drift /Weekly	≤ 1 %
3	Analyzer's Linearity	< 1 % of full scale
4	Performance accuracy	≤ ± 10 % of compared reference
,		measurement

The performance test procedures are repeated periodically, after a major change of plant operation, after a failure of the CEMS or as demanded by regulators.

#### 9.4 Calibration of Air Analysers (Gaseous Parameter)

- a. The instruments/analysers for real time monitoring of gaseous emissions shall be calibrated with respect to their functioning, drift, linearity, detection limit, output, operating temperature and other relevant parameters before installation.
- b. Demonstration of performance specifications as outlined in section 9.3 for both indigenous as well as certified analysers.
- c. After six months of operation, the system shall be rechecked for its health and data accuracy and reliability, following multi point calibration (at least 03 span concentrations) using standard methods and certified reference materials.
- d. The data comparison and calibration verification shall be done once in 06 months by empaneled laboratories following standard procedures and using certified reference standards.



- e. The health of the instruments/analysers shall be assessed on daily basis by checking the zero drift.
- f. In case the daily zero drift is more than the acceptable limit as specified in the catalogue/brochure of the instrument/analyser manufacturer and persists continuously for five days, the instrument/ analyser shall be recalibrated following procedure laid down at point (c) above.
- g. The instruments/analysers shall be checked for zero and span on fortnightly basis i.e. second Friday of the fortnight at fixed time (10:00 a.m.) using standard methods and standard reference materials including certified calibration gases. The drift needs to be recorded and suitably incorporated in the data collected over the period.
- h. For Differential Optical Absorption Spectroscopy (DOAS), Non Dispersive Ultra Violet (NDUV)/Non Dispersive Infra-Red lamp/laser based systems / FTIR based systems, the calibration shall be revalidated once in 06 months, and after replacement of lamp.
- The instrument/ analyser shall be recalibrated after any major repair/replacement of parts/lamps or readjustment of the alignment using standard methods and certified reference materials.
- j. The instrument/analyser system shall have provision of remote calibration, for verification of the system performance by SPCBs/PCCs whenever, felt necessary.
- k. The intensity of the lamp shall be checked once every fortnight.
- I. Data capture rate of more than 85% shall be ensured.
- m. Using Ambient Air for Zero/Span calibration is not acceptable, Zero air, instrument air, Span Gas/Gas filled Cuvette can be used with required certifications.

#### 9.5 Calibration of Air Analysers (Particulate Matter)

The PM CEMS device is ready for calibration only after performing all of the required installation, registration, and configuration steps. Details of Particulate Matter CEMS calibration are given below.

a. The continuous Particulate Matter monitoring system (PM-CEMS) shall ideally be calibrated at three operational loads against isokinetic sampling method (triplicate samples at each load) nine samples in three loads at the



- time of installation and thereafter, every twelve months of its operation or after any change in solid fuels.
- b. The results from the Particulate Matter monitoring system shall be compared on monthly basis i.e. last Friday of the month, at fixed time (replicate sample) starting 10.00 am. with standard isokinetic sampling method.
- c. In case, deviation of the comparison values (dust factor) for 02(two) consecutive monitoring is more than 10%, the system shall be recalibrated against isokinetic sampling method (triplicate samples), if possible at three variable loads.
- d. Adjustment of Calibrated Dust Factor (CDF) allowed only after full-scale calibration of PM CEMS. Change of CDF permitted only after approval by SPCB/ PCC or after one week of submission of request to SPCB/PCC whichever is earlier.
- e. After any major repair to the system, change of lamp, readjustment of the alignment, change in fuel quality, the system shall be recalibrated against isokinetic sampling method. (triplicate samples at each load)
- f. The data capture rate of more than 85% shall be ensured.
- g. The intensity of lamp shall be checked once every fortnight.
- h. The data comparison (calibration verification) shall be done by laboratories empaneled by CPCB using standard reference methods and at a frequency specified.

#### 9.6 Emission Monitoring

- a. To ensure laminar flow the Particulate Matter monitoring systems (CEMS) shall be installed at a distance at least at Eight times the stack diameter downstream and Two times stack diameter upstream from any flow disturbance.
  - In rare cases, when the PM CEMS analyzers are installed at a distance atleast four times the stack diameter downstream from any flow disturbance; however, correction for stratification (pl. refer para 4.1.1) shall be made. The full scale calibration shall cover atleast 03(three) working loads and atleast 09(nine) (triplicate sample at variable load) sampling shall be carried out for dust factor.
- b. CEMS devices shall be installed at minimum 500mm below from the port hole designed for manual sampling.



- c. All measurement ports into the stack shall be as per CEMS system requirement.
- d. Particulate CEMS devices (Cross Duct) or probe shall be installed in horizontal plane;
- e. Probe / sampling device for gaseous CEMS shall be installed protruding downwards with suction system facing the direction of flow of flue gases.
- f. The construction of chimney shall adhere to CPCB publication, "Emission Regulation Part III" (COINDS/20/1984-85) unless otherwise specified by CPCB or SPCB/ PCC.
- g. The monitoring of PM parameter at different loads is to be conducted at least once at the time of initial installation. It is advised to carry out PM emission monitoring on the day when plant operates, under capacity due to any reason besides the routine monitoring. The data obtained can be used for linearity verification and CDF should be calculated and informed to CPCB.
- h. Similarly, when ESP or APCC device is operating under capacity, or its fields are under maintenance, the emission monitoring should be practiced to carryout linearity check of the particulate monitoring beside routine monitoring, CDF should be calculated and informed to CPCB.
- i. The parameters like flow if not installed requiring changes in the stack/duct may be monitored within a period of four months from the date of issue of the 1<sup>st</sup> revision guidelines or immediately after scheduled shutdown whichever is earlier.
- j. Other parameters like temperature which do not require an modification in the structure of the stack shall be installed within a month from the date of issue of 1<sup>st</sup> Revision of Guidelines.

#### 9.7 Data Consideration/Exceedance

- a. Any exceedance of values over the prescribed standards or norms shall be considered as alarm for exceedance. However, time average value (as decided by CPCB) will be used for compliance check.
- Instantaneous elevated data i.e. spikes with duration less than one minute shall be dealt separately and not considered for data averaging.



- c. In case of loss of data for more than 10 minutes per half hour it will be considered as loss of half hourly value. In case more than 5 half hourly data is lost per day, it will be considered as data loss for a day.
- d. Any day in which more than three hourly average values are invalid due to malfunction or maintenance of the automated measuring system shall be considered lost date for the day 85% date capture in based on available daily average.
- e. In the case of a breakdown of the RTMS, the operator shall reduce or close down operation if the problem is not rectified within 72 hours, subject to information to SPCBs/PCCs and CPCB.
- f. Operating hours means the time expressed in hours during which the plant in whole or in part is operating and discharging emission into the air, excluding start up and shut down periods.
- g. Any Exceedance of the monitored values against the standards shall invite SMS & email to the industry from SPCBs/PCCs, requiring immediate feedback on the corrective action initiated/taken.
- h. The values recorded during calibration or during preventive maintenance shall not be considered for Exceedance and assessing the data capture rate.
- i. Plant start-up or batch process starting emissions shall not be considered for averaging for the initial, 30 minutes' period in case of batch processes or small furnaces/ boilers not operating continuously as per the schedule specified in the Compliance Reporting Protocol.
- j. Plant shut down period shall be excluded while calculating data capture rate.

#### 9.8 Data Acquisition System (DAS)

- a. DAS (Data Acquisition System) defines the logging of digital data from the analysers.
- b. The data shall be transferred directly from Data Acquisition and Handling System at the analyser end to a cloud server of a technology provider (with no in between logic), who ensures seamless transmission of data from analysers to central server located at SPCB/CPCB. In this context technology provider is an agency who provides data transmission service in transparent manner ensuring high degree of integrity.



- c. Technology provider may be a manufacturer of analyzers or any technology service provider having capability of building such system.
- d. The cloud server of Technology Provider (TP) to meet the needs of local SPCBs, Industry and CPCB in implementation of CEMS.
- e. It shall be the responsibility of industry to choose appropriate technology provider to ensure seamless transmission of data to Central Server
- f. Central Server at SPCBs/PCC / CPCB to accept the data from Cloud Server of TP only if their system has requisite features to transfer direct data and also facilitate remote calibration.
- g. Data should be in encrypted format (tamper proof)
- h. The system shall operate on Open Application Programme Interface (API) protocol based on REST based technology.
- i. The system shall record all the monitored values and transfer 15 minutes average value to DAHS. The system shall have provision to assess the momentarily values as and when required.
- j. Data validation protocol inbuilt with data quality codes to defined specification in DAS/DATA LOGGER.
- k. Cloud Sever of TP to meet the needs of local SPCBs, industry and CPCB

# 10.0 DATA ACQUISITION, MANAGEMENT AND REPORTING

Considering the heterogeneity of real time monitoring systems industries are required to submit real time data through their respective instrument suppliers. This mechanism shall help in consolidating the data avoiding the complexity of different technologies and availability of monitored data in different data formats while involving the instrument suppliers in data transferring mechanism. The system enables two ways communication required to manage such real time systems.

The functional capabilities of such software systems shall include:

- a. The system should be capable of collecting data on real time basis without any human intervention.
- b. The data generation, data pick up, data transmission, data integration at all servers end should be automatic.
- c. The submitted data shall be available to SPCBs/PCCs and CPCB for immediate corrective action.



- d. Raw data should be transmitted simultaneously to SPCBs /PCCs and CPCB.
- e. In case of delay in collection of data due to any reason, the data transmission should be marked delayed data and reports of delayed data should by displayed on the portal
- f. At no point of time, manual data handling shall be permitted. Data validation should be permitted only through the administrator and data changes recorded with date and time stampings.
- g. Configurations of the systems once set up (through remote procedure) and verified, should not be changed. In case any setting change is required it should be notified and recorded through the authorized representatives only.
- h. The data submitted electronically shall be available to the data generator through internet, so that corrective action if any required due to submission of erroneous data can be initiated by the industry.
- i. The software should be capable to verify the data correctness which means at any given point of time the regulatory authorities/data generator should be able to visualize the current data of any location's specific parameter.
- A system for data validation shall be incorporated in the software with fixed responsibilities of stakeholders;
  - Data Generator
  - SPCBs/ PCCs
  - CPCB
- k. Change Request Management: window for requesting data changes due to actual field conditions shall be provided by the industry in line to SPCBs/ PCCs to consider the request or not. The data validation/ changes can be incorporated after approval respective SPCBs/PCC or after one week of submission of request to SPCB/PCC. The environmental conditions around the site surrounding shall also be recorded along with other environmental parameters, as these have the potential to affect the monitoring system adversely and corrupt the data generated.
- System should have capability to depict data at the actual location of industry over the map. CPCB and or SPCBs/ PCCs shall develop a map based system for data integration at a single location.
- m. The software should be capable of analyzing the data with statistical tools



and shall have the following capabilities:

- Statistical data analysis (customizable) for average, min., max., diurnal variation, RSD, correlation, covariance, etc.
- Comparison of parameters of different locations in user selectable time formats i.e. in graphical and tabular formats compatible to MS Excel, MS Word, \*.txt etc.
- Capability of comparison of data with respect to standards/threshold values.
- Auto report and auto mail generation etc.
- Providing calibration database for further validation/correction of data.
- Transmitting data to different locations as per EC, CTE/CTO, and other directives in force.
- Channel configuration for range, units, etc. as required for specific parameters and facility.
- Providing data in export format on continuous basis through central/station computer system to other system.
- Data transmission through Leased Line (1Mbps) and Broadband with two medias supported which can be alternately used for data submission without fail.
- Data Storage for next five years.
- p. System should be connected to a backup power source with adequate capacity to avoid any power disruption.
- q. In case of dilution extractive systems, a mechanism to report dilution ratio maintained in the system should be reported alongwith data as a separate parameter to ensure dilution all the time.

#### 11.0 SUMMARY

- a. The industries falling in 17 categories of highly polluting industries, Common Bio Medical waste and Common Hazardous waste incinerators have to install Continuous Emission Monitoring System.
- Industries other than 17 categories should consider installation of CEMS system as a tool of self-regulation.



- c. The G.S.R. 96(E) January 29, 2018 Notified by MoEF&CC under Environment (Protection) Act, 1986 mandates installation of CEMS with the Boilers used in the Industries namely Sugar, Cotton Textile, Composite Woolen Mills, Synthetic Rubber, Pulp & Paper, Distilleries, Leather Industries, Calcium Carbide, Carbon Black, Natural Rubber, Asbestos, Caustic Soda, Small Boilers, Aluminium Plants, Tanneries, Inorganic Chemicals & other such industries using boilers.
- d. The responsibility of data submission lies with the Individual units. The instrument supplier or manufacturer may facilitate data transmission on behalf of industries. Industry will ensure at least 85% data availability from the system installed.
- e. The Technology providers shall install their server in cloud and should send the real time data to CPCB, SPCBs servers or any Govt. bodies servers in consultation.
- f. The vendor/instrument supplier shall make provisions to provide data continuously at least at 04 locations in SPCBs/PCCs, RO/DO of SPCBs, CPCB, and industry directly from the analyzers.
- g. The plausibility control of data received shall be done. The team members will be responsible for validating, interpreting and interpolation of data on periodic basis.
- h. The vendor/instrument supplier will regularly cross check the data obtained from CEM system with that of the samples collected manually and analyze using approved laboratory techniques and revalidate the calibration factor essential for generating better quality data.
- i. The industries shall ensure that the monitoring systems are covered under Maintenance Contract with the vendors/ authorized Indian service partners of the instrument manufacturer after installation.
- j. The authorized Indian service partner/instrument manufacturer shall ensure that any problem in monitoring system/data acquisition and transfer system does not persist beyond 72 hours else it should be notified to SPCB & CPCB.
- k. The Technology Provider /instrument manufacturers shall ensure availability of spare parts for atleast 07 years after installation of the system.



- I. Role of manufacturers/supplier authorized Indian Service Partner:
  - Supply and install equipment suitable to monitor the emission in the available matrix
  - Supply all the supporting equipment, analyzers and software
  - Supply equipment/instruments capable of monitoring/measuring the parameters identified in the range of occurrence in the industrial unit
  - Supplied software should establish two-way communication sending diagnostics of instruments on demand, with central servers at SPCBs/PCCs and CPCB
  - The software should be capable of transmitting the data along with diagnostics of the instrument
- m. CPCB empaneled laboratories shall only be engaged as third party agency for all activities related to assessment of installation, calibration of CEMS, validation of data, etc However, till the time such empanelment is done, industries can use their own laboratories if these are EPA approved or NABL accredited (respective parameters shall be included in scope for accreditation) else may engage an EPA approved or NABL accredited (respective parameters shall be included in scope for accreditation) external lab.
- n. Industries shall not carry out the performance audit of OCEMS on their own or through the labs engaged for the routine calibration and data verification activities.
- Performance audit shall necessarily be carried out by the empaneled third party independent laboratory other than already engaged for routine calibration and OCEMS data verification.
- p. Industries have to inform SPCBs/PCCs and CPCB through online system at <u>cems.cpcb@nic.in</u> via email providing date and time of visits of the lab engaged for the calibration, data verification, performance audit and other activities every time before starting the work.



#### **Annexure-I**

# 12. Parameters for online monitoring as per Guidelines

Sl. No	Category	Emission Parameters	
1	Aluminium	PM, Fluoride	
2	Cement	PM,NOx,SO <sub>2</sub>	
3	Distillery	PM	
4	Dye and dye Intermediate	-	
5	Chlor Alkali	Cl <sub>2</sub> , HCl	
6	Fertilizers	PM, HF, Ammonia	
7	Iron & steel	PM,SO <sub>2</sub> , NOx	
8	Oil refinery	PM,CO,NOx,SO <sub>2</sub>	
9	Petro chemical	PM,CO,NOx,SO <sub>2</sub>	
10	Pesticides	-	
11	Pharmaceuticals	-	
12	Power Plants	PM, NOx, SO <sub>2</sub>	
	Thermal Power Plants	PM, NOx, SO <sub>2</sub> , Total Mercury(Gaseous)**	
13	Pulp & paper	-	
14	Sugar	-	
15	Tannery	-	
16	Zinc	PM, SO <sub>2</sub>	
17	Copper	PM, SO <sub>2</sub>	
18	Textile (GPI)	-	
19	Dairy (GPI)	-	
20	Slaughter House	-	
21	Boiler	SO <sub>2</sub> , NOx, PM	

 $<sup>^{\</sup>star\star}$  Online CEMS for Mercury may be applicable in case such condition is stipulated in EC issued by MoEF&CC / SEIAA

# 13. Formulae for Data Reporting

# **ANNEXURE II**

SN	Parameters	Units of Expression	Standard values	Algorithm	Remarks
01	Barometric Pressure (P <sub>bar</sub> )	mm of Hg			
02	Standard Pressure (P <sub>std</sub> )	mm of Hg	760		
03	Actual Pressure (Pactual)	mm Hg			
04	Stack Temperature (T <sub>S</sub> )	Kelvin		x ° C + 273.15	x = temperature in stack
05	Temperature at Analyser (T <sub>m</sub> )	Kelvin		x ° C + 273.15	x = temperature in stack
06	Standard Temperature (T <sub>std</sub> )	Kelvin	298	25 ° C + 273.15 = 298	
07	Moisture (M)	%			
08	Moisture Fraction (Mw)	Ratio		(M) /100	
09	Wet m <sup>3</sup> to Wet Nm <sup>3</sup>	Wet Nm <sup>3</sup>		$x m^3 * \{(P_{actual})/(P_{std})\} \{ T_m / (T_{std}) \}$	x=volume measured by analyser
10	Wet Nm <sup>3</sup> to Dry Nm <sup>3</sup>	Dry Nm <sup>3</sup>		x m <sup>3</sup> * {(P <sub>actual</sub> )/ (P <sub>std</sub> )}*{T <sub>m</sub> / (T <sub>std</sub> )}*{1 / (1 – Mw)}	x=volume measured by analyser
11	Conversion of ppmw of any gas to mg/Nm <sup>3</sup>	mg/Nm <sup>3</sup>		(x ppmw) * (molecular weight) / 24.45  x=value measured by analyser in NM <sup>3</sup>	All the instantaneous values required to be corrected in CEMS
12	Conversion of ppmv of any gas to mg/Nm <sup>3</sup>	mg/Nm³		{( x ppmv)}*{(12.187)}*{( MW)} / {(273.15 + 25 °C)} x=value measured by analyser in Nm <sup>3</sup>	This is not applicable for CEMS as Pressure correction is not applied
13	CO₂ Correction		12 % or as specified	$C_f = \{x \text{ mg/Nm}^3\} * \{(12 / \text{ Measured } CO_2)\}$ $\frac{Correction \text{ not }}{n \text{ eeded } w \text{ herever }}$ $\frac{CO_2 \text{ is } > 12\%}{C_f = correction \text{ factor }}$	All the instantaneous values required to be corrected in CEMS wherever mandated as per standard
14	O <sub>2</sub> Correction		11%	$C_f = \{x \text{ mg/Nm}^3\}^*$ $(20.9 - 11)\}/\{(20.9 - 11)\}/\{(20.9 - 11)\}$ - Measured $O_2$ )} Correction not needed wherever $O_2$ is $< 11\%$	All the instantaneous values required to be corrected in CEMS wherever mandated as per standard



			C <sub>f</sub> =correction factor	
15	O <sub>2</sub> Correction	3 %	$C_f = \{x \text{ mg/Nm}^3 * (20.9 - 3)\} / \{ (20.9 - 6) \}$ Measured $O_2$ ) $Correction not 6$ $Correction not 7$	Applicable for gas and liquid fuel in Petrochemical industries
16	Combustion Efficiency		{(%CO2)*100} / {(% CO2 + %CO)}	Applicable for Biomedical Waste Incinerator



S.	References			
No.				
1.0	i) Direction for installation of CEMS and CWQMS in 17 Categories Industries, CETP, HWI, BMWI  ii) Draft Notification on CEMS and CWQMS			
	ii) Draft Notification on CEMS and CWQMS			
	iii) Minutes of Meeting with Industries on Online Monitoring			
	iv) List of Parameters for CEMS and CWQMS			
	v) First hand information on list of suppliers vi) CPCB/e-PUBLICATION/2013-14 on "Specifications and Guidelines for Continuous			
	Emissions Monitoring Systems (CEMS) for PM Measurement With Special Reference to			
	Emission Trading Programs"			
2.0	USEPA Documents related to CEMS			
0	a) Continuous Monitoring Manual			
	b) 40 CFR Part 75: CEMS Field Audit Manual			
	c) USEPA CEMS Performance Specification			
	i) PS – 2 : Performance Specification for SO <sub>2</sub> and NO <sub>x</sub>			
	ii) PS – 3 : Performance Specification for O <sub>2</sub> and CO <sub>2</sub>			
	iii) PS – 4 : Performance Specification for CO			
	iv) PS – 4A: Performance Specification and Test Procedure for CO			
	v) PS – 4B: Performance Specification and Test Procedure for CO and O <sub>2</sub>			
	vi) PS – 6: Performance Specification and Test Procedure for Emission Rate			
	vii) PS – 8A: Performance Specification and Test Procedure for Hydrocarbon (TOC)			
	viii) PS – 11: Performance Specification and Test Procedure for PM CEMS			
	ix) PS – 15: Performance Specification for Extractive FTIR CEMS			
	x) PS – 18: Performance Specification for HCl – CEMS			
	d) Quality Assurance (QA) Documents i) Procedure 1: QA Requirement for Gaseous CEMS			
	ii) Procedure 1: QA Requirement for PM CEMS			
	iii) Procedure 5: QA Requirement for Total Gaseous Mercury (TGM) CEMS and Sorbent			
	Trap			
	e) 40 CFR part 180			
	f) COMS (Continuous Opacity Monitoring System)			
3.0	EN Documents			
	i) EN 15267 – Part 1: Certification of AMS (CEMS)			
	ii) EN 15267 – Part 2: Certification of AMS (CEMS)			
	iii) EN 15267 – Part 3: Certification of AMS (CEMS)			
	iv) EN 14181 – Quality Assurance of AMS (CEMS)			
	v) EN 14884 – Test Method AMS (CEMS) for TGM			
4.0	UK Documents			
	a) RM:QG-06: Calibration of PM CEMS ( Low Concentration)			
	b) MCERTS : BS EN 13284: PM CEMS			
5.0	Standard Operating Procedure for Compliance Monitoring using CEMS – Abu Dhabi			



# Record note of discussions of the meeting taken by Hon'ble symmeter of Energy, U.P. at Lucknow on 03,04.1999

#### FOLLOWING WERE PRESENT:

- 1. Shri Naresh Agarwal, Hon'ble Minister of Energy, U.P.
- 2. Shri Atul Chaturvedi, Secretary (Energy), Govt. of U.P.
- Shri G P Singh, Chairman, UPSEB
- 4 Shri Rajendra Singh, CMD, NTPC

# PRINCIPLES FOR CONSUMPTIVE WATER CHARGES FOR FUTURE

Following principles for calculation of consumptive water charges for Rihand and Singrauli STPS to be adopted in future will be as under:-

- Water level may be taken on theoretical basis i.e. minimum of 830 feet and maximum of 880 feet.
- (Twelve percent ).
- iii) Aux. Power consumption of UPSEB hydro stations viz Rihand and Obra will be taken as 0.5 %.
- iv) The energy loss will be calculated taking into consideration the actual availability of Rihand hydro station of UPSEB for the year 1998.
- Water charges will be payable from the date of synchronization of the units.
- vi) The per Kilowatt hour charges to be applied will be the highest average annual rate during 1998 amongst Northern Region coal based stations of NTPC and will be applicable w.e.f. 1.1.1999 for next five years. This will be revised upwards by 10% after every five years.
- vii) To provide for generation loss on account of spillover of water, the charges for consumptive use will be worked out on the basis of 3.0 (Three) times of the above rate in place of 2 (Two) times as earlier proposed. No separate payments towards spillover water will be admissible.
- viii) Water charges will be pass-through in the tariff.

Thermal Power Station, It was agreed that water charges from NTPC for Vindhyachal Super Thermal Power Station of NTPC located in M P will not be billed to NTPC till the matter is settled between U P and M P Goyt as to who would be beneficiary of water charges.

(ATUL CHATURVEDI)

Secretary (Energy)
Govt. of U.P.

( RAJENDRA SINGH ) CMD

NTPC

(GPSINGII)

Chairman UPSEB



Month	Ise availability of Rihand Hydro Station for y Availability as Intimated by UPSEB(as recorded in IOM ref No: NTPC:NRHQ:Comml: 2 Dated 26/05/99 From DGM (Comml) NRHQ Allahbad to GM (F&A).CC %		Available hours
Jan-98	98.46	35	73254.24
Feb-98	96,46	28	64821.12
Mar-98	89.86	31	66855,84
Apr-98	84.02	30	60494.4
May-9B	97.09	31	72234.96
Jun-98	87.84	30	63244.8
Jul-98	77.81	31	57890.64
Aug-98	79.14	31	58880.16
Sep-98	71.95	30	51804
Oct-98	88.57	31	65896.08
Nov-98	80.26	30	57787.2
Dec-98	86.6	31	84430.4
Year 1998	86.48	365	757593.8





### केन्द्रीय विद्युत विभियामक आयोग CENTRAL ELECTRICITY REGULATORY COMMISSION



### नई दिल्ली NEW DELHI

./Petition No.: 319/RC/2018

/Coram:

. के. पुजारी, /Shri P. K. Pujari, Chairperson डॉ. एम. के. अय्यर, / Dr. M.K. Iyer, Member आई. एस. झा, / Sh. I.S. Jha, Member

आद दिनांक /Date of Order: 28th of August, 2019

#### IN THE MATTER OF

Automatic Generation Control (AGC) implementation in India

**AND** 

#### IN THE MATTER OF

National Load Despatch Centre Power System Operation Corporation Ltd. (A Government of India Enterprise) B-9, Qutab Institutional Area, Katwaria Sarai New Delhi-110016

...Petitioner

#### **VERSUS**

- NTPC Limited, Plot No A-8A, Sector-24, Noida, Uttar Pradesh, India- 201301
- NHPC Limited,
   N.H.P.C Office Complex,
   Sector-33, Faridabad 121003, Haryana



- 3. Central Transmission Utility, Saudamini, Plot No. 2, Sector-29, Gurgaon-122 001 (Haryana)
- 4. SJVN, Shakti Sadan, SJVN Corporate Office Complex, Shanan-171006
- 5. THDC INDIA LIMITED, Corporate Office, Rishikesh, Pragatipuram, By Pass Road, Rishikesh 249201, Uttrakhand
- 6. Aravali Power Company Private Ltd., Indira Gandhi Super Thermal Power Station (IGSTPS), Jharli, District Jhajjar, Haryana-124141
- 7. N T E C L Vallur Thermal Power Project, P.O.: Vellivoyal Chavadi, Ponneri Taluk, Tiruvallur Dist, Chennai- 600 103
- 8. NLC India Limited, Block - 1, Neyveli - 607 801, Cuddalore District, Tamilnadu
- NTPC-SAIL Power Company Limited Corporate Centre, 4th Floor, Nbcc Tower,
   Bhikaiji Cama Place, New Delhi, Delhi – 110066
- 10. Coastal Gujarat Power Ltd,Tata Power Co. Ltd., Backbay Rec Station,148, Lt. Gen. J.Bhonsle Marg,Nariman Point, Mumbai 400 021
- 11. Sasan Power Limited, Reliance Centre, Near Prabhat Colony, Off Western Express Highway, Santacruz East, Mumbai – 400055, Mumbai
- 12. Ratnagiri Gas and Power Pvt. Ltd., Registered Office, NTPC Bhawan, Core-7, SCOPE Complex,7, Institutional Area, Lodi Road, New Delhi-110003, India
- 13. North Eastern Electric Power Corporation Ltd, Brookland Compound, Lower New Colony, Shillong-793003, Meghalaya, India.



- 14. ONGC Tripura Power Company Ltd. 6th Floor, A Wing, IFCI Towers, 61, Nehru Place, New Delhi 110019
- 15. Bharatiya Rail Bijlee Company Ltd. Nabinagar,Khera Police Station Dist.-Aurangabad, Bihar-824303

#### **Northern Region**

- Delhi Transco Limited,
   33kV, Sub Station Building,
   Minto Road, New Delhi -110002.
- 17. Haryana Vidyut Prasaran Nigam Limited, XEN/LD & PC, SLDC Complex, Sewah Panipat -132103.
- Himachal Pradesh State Electricity Board, HP Load Despatch Society, SLDC complex, Totu, Shimla -171011.
- Jammu & Kashmir Power Development Department, SLDC Building,
   220 kV Grid Station Narwal,
   Jammu -180007.
- 20. Punjab State Transmission Corporation Limited, Ablowal, Patiala, SLDC Building, Near 220KV Grid Substation, PSTCL, Ablowal, Patiala -147001
- 21. Rajasthan Rajya Vidyut Prasaran Nigam Limited, State Load Despatch Centre, Rajasthan Rajya Vidyut Prasaran Nigam Limited, Ajmer Road, Heerapura, Jaipur -302024
- 22. Uttar Pradesh Power Transmission Corporation Limited, Power System,5th Floor, Shakti Bhawan,14 Ashok Marg, Lucknow -226001
- 23. Power Transmission Corporation of Uttarakhand Limited, 400 KV Substation, Veerbhadra, Rishikesh -249202



#### 24. General Manager,

Singrauli Super Thermal Power Station, Shakti Nagar, UP-231222

#### 25. General Manager,

Singrauli Solar PV Power Project, Shakti Nagar, UP-231222

#### 26. General Manager,

Singrauli Small Hydro Power Project, Shakti Nagar, UP-231222

#### 27. General Manager,

Rihand Super Thermal Power Station-I, Rihand Nagar, UP-231223

#### 28. General Manager,

Rihand Super Thermal Power Station-II, Rihand Nagar, UP-231223

#### 29. General Manager,

Rihand Super Thermal Power Station-III, NTPC Rihand, Dist-Sonbhadra, UP - 231223

#### 30. General Manager,

Dadri, National Capital Power Project, Dadri Dhaulana Road, Distt. Gautam Buddh Nagar, UP-201008

#### 31. General Manager,

Dadri – Stage - II, National Capital Power Project, Dadri Dhaulana Road, Distt. Gautam Buddh Nagar, UP-201008

#### 32. General Manager,

Firoz Gandhi Unchahar Thermal Power Project-I, Unchahar, Distt. Rai bareilly, UP

#### 33. General Manager,

Firoz Gandhi Unchahar Thermal Power Project-II, Unchahar, Distt. Raibareilly, UP



#### 34. General Manager,

Firoz Gandhi Unchahar Thermal Power Project-III, Unchahar, Distt. Raibareilly, UP

#### 35. General Manager,

Firoz Gandhi Unchahar Thermal Power Project-IV, P.O. Unchahar, Dist.: Raibareilly (U.P.) Pin-229406

#### 36. General Manager,

Firoz Gandhi Unchahar Solar PV Power Project, Unchahar, Distt. Raibareilly, UP

#### 37. General Manager,

Dadri Gas Power Project, Dhaulana Road, Distt. Gautam Buddh Nagar, UP-201008

#### 38. General Manager,

Dadri Solar PV Power Project, Dhaulana Road, Distt. Gautam Buddh Nagar, UP-201008

#### 39. General Manager,

Auraiya Gas Power Project( Gas Fired, RLNG Fired, Liquid Fired), Dibiyapur, Distt Etawah, UP-206244

#### 40. General Manager,

Anta Gas Power Project (Gas Fired, RLNG Fired, Liquid Fired), Distt. Baran, Rajasthan-325209

#### 41. General Manager, Koldam HPP, NTPC,

Post- Barman, Dist- Bilaspur, Himachal Pradesh 174013

#### 42. Station Director,

Narora Atomic Power Station, Narora, Distt. Bulandshahar, UP-202389

#### 43. Station Director,

Rajasthan Atomic Power Station-B, Anu Shakti Vihar, Kota, Rajasthan-323303



#### 44. Station Director,

Rajasthan Atomic Power Station-C, (RAPS-5&6) PO-Anushakti, Kota, Rajasthan-323304

#### 45. General Manager,

Bairasiul Hydro Electric Project, NHPC Ltd., Surangini, Distt. Chamba, HP-176317

#### 46. General Manager,

Salal Hydro Electric Project, NHPC Ltd, Jyotipuram, Distt. Udhampur, J&K-182312

#### 47. General Manager,

Tanakpur Hydro Electric Project, NHPC Ltd., Banbassa, Distt. Champawa, Uttrakhand-262310

#### 48. General Manager,

Chamera-I Hydro Electric Project, NHPC Ltd., Khairi, Distt. Chamba, HP-176310

#### 49. General Manager,

Uri Hydro Electric Project, NHPC Ltd., Mohra, Distt. Baramulla, J&K-193122

#### 50. General Manager,

Chamera-II Hydro Electric Project, NHPC Ltd., Karian, Distt. Chamba, HP-176310

#### 51. General Manager,

Chamera-III Hydro Electric Project, NHPC Ltd., Dharwala, Distt.- Chamba, HP-176311

#### 52. General Manager,

Dhauliganga Hydro Electric Project, NHPC Ltd., Tapovan, Dharchula, Pithoragarh, Uttrakhand-262545



#### 53. General Manager,

Dulhasti Hydro Electric Project, NHPC Ltd., Chenab Nagar, Distt. Kishtwar, J&K-182206

#### 54. General Manager,

Uri 2 Hydro Electric Project, NHPC Ltd., Nowpura, Distt. Baramulla, J&K-193123

#### 55. General Manager,

Parbati HE Project Stage-III Behali, P.O- Larji Kullu 175122 Himachal Pradesh

#### 56. Chief Engineer,

Sewa-II Power Station, NHPC Ltd. Mashke, post Bag no-2, P.O-Khari, Dist: Kathua, Jammu and Kasmir -176325

#### 57. The Chief Engineer (Electrical),

Kishanganga HEP, Office cum Residential colony, Kralpora,

Distt: Bandipora, Jammu and Kashmir-193502

#### 58. Chief Engineer (Elect.),

Parbati-II HEP, Electrical & Mechanical complex, Sainj, Distt. Kullu, Himachal Pradesh -175134

#### 59. General Manager,

Naptha Jhakhri HEP, Satluj Jal Vidyut Nigam Ltd. Power Project, Jhakri, Rampur, Distt. Shimla, HP-172201

#### 60. General Manager,

Rampur HEP, Satluj Jal Vidyut Nigam Ltd. Power Project, Jhakri, Rampur, Distt. Shimla, HP-172201

#### 61. General Manager,

Tehri Hydro Development Corporation Ltd., Pragatipuram, Rishikesh, Uttrakhand-249201

#### 62. General Manager,

Koteshwar HEP, THDCIL, Koteshwerpuram, Post Office- Pokhari Tehri Garwal, Uttarakhand - 249146



## 63. Director (Power Regulation),Bhakra Power House, SLDC Complex,66 KV Substation, Industrial Area Phase-I,Madhya Marg, BBMB Chandigarh

### 64. General Manager, ADHPL, Village- Prini, PO -Jagat Sukh, Tehsil - Manali, Distt- Kullu (H.P) India.

### 65. General Manager,

Indra Gandhi Super Tharmal Power Project, PO -Jharli, Tahsil Matanhail, Dist – Jhajjar, (Haryana)-124125

### 66. General Manager,

Karcham Wangtoo HEP, Himachal Baspa Power Company Limited, Sholtu Colony, PO- Tapti, Dist-Kinnaur, -172104 (HP)

### 67. Director,

Malana - II Everest Power Pvt. Ltd, Hall-A/ First Floor Plot No-143-144, Udyog Vihar, Phase -4, Gurgaon, Haryana 122015

### 68. Company Secretary,

Shree Cement Thermal Power Project Bangurnagar, Beawar, Dist Ajmer, Rajasthan -305901

### 69. Company Secretary,

Greenco Budhil HPS Ltd, Plot No. 1367 Road No- 45, Jubilee Hills, Hyderabad- 500033

### 70. Project General Manager,

Himachal Sorang Power Limited, D-7, Lane-I, Sector-I, New Shimla, Shimla, H.P.-171009.

### 71. General Manager,

Sainj HEP, HPPCL, Larji, Distric - Kullu, Himachal Pradesh, 175122

### **Western Region**

### 72. MSLDC,

Airoli, Navi Mumbai, Airoli, Thane - Belapur Road, Navi Mumbai-400708.

### 73. State Load Despatch Centre,

MPPTCL, Jabalpur,

O/o Chief Engineer (SLDC), MPPTCL, Nayagaon, Jabalpur



### 74. SLDC Gotri Vadodara,

Gujarat, 132kV Gotri s/s compound, Opposite Kalpvrux Complex,

Gotri Road,

Vadodara

### 75. Chhattisgarh State Load Despatch Centre,

C.E(LD), State Load Despatch Centre,

CSPTCL, Daganiya-HQ,

Raipur, Chhattisgarh

### 76. General Manager, Korba STPS STG (I& II),

National Thermal Power Corporation,

P.O. Vikas Bhavan, Jamnipali,

Korba(Distt.),

Chhattisgarh- 495 450.

### 77. General Manager,

Korba STPS STG (III),

National Thermal Power Corporation,

P.O. Vikas Bhavan, Jamnipali,

Korba(Dist),

Chhattisgarh- 495 450.

### 78. General Manager,

STAGE-I, Vindhyachal STPS,

National Thermal Power Corporation of India Ltd,

P.O Vindhyanagar, Sidhi(Dist),

Madhya Pradesh – 486 885

### 79. General Manager,

STAGE-II, Vindhyachal STPS,

National Thermal Power Corporation of India Ltd,

P.O Vindhyanagar, Sidhi(Dist),

Madhya Pradesh – 486 885

### 80. General Manager,

STAGE-III, Vindhyachal STPS,

National Thermal Power Corporation of India Ltd,

P.O Vindhyanagar, Sidhi(Dist),

Madhya Pradesh – 486 885

### 81. General Manager,

STAGE-IV, Vindhyachal STPS,

National Thermal Power Corporation of India Ltd,

P.O Vindhynagar, Sidhi(Distt.),

Madhya Pradesh – 486 885



### 82. General Manager,

Kawas Gas Power Project,

National Thermal Power Corporation of India Ltd,

P.O. Aditya Nagar,

Surat- 394 516

### 83. General Manager,

Gandhar Gas Power Project,

National Thermal Power Corporation of India Ltd,

P.O. NTPC Township, Bharuch(Distt.),

Gujarat- 392 215

### 84. General Manager,

SIPAT TPS Stg-I,

National Thermal Power Corporation of India Ltd,

SIPAT, Chhattisgarh.

### 85. General Manager,

SIPAT TPS Stg-II,

National Thermal Power Corporation of India Ltd,

SIPAT, Chhattisgarh.

### 86. General Manager,

Mouda STPP,

NTPC Ltd,

Mouda Ramtek Road,

P.O.Mouda, Nagpur (Dist),

Maharashtra

### 87. General Manager,

2 X 135 MW Kasaipali Thermal Power Project,

ACB (India) Ltd.

District - Korba

Chhattisgarh Chakabura 495445

### 88. General Manager,

Bharat Aluminium Co. Ltd,

Captive Power plant-II,

BALCO Nagar Chhattisgarh, Korba 495 684

### 89. Executive Director.

Costal Gujarat Power Ltd,

Tunda Vandh Road, Tunda Village, Mundra,

Gujarat Kutch 370435

### 90. Executive Director,

DB Power,

Village - Baradarha, Post - Kanwali,

Dist - Janjgir, Champa, Chhattisgarh Baradarha 495695



### 91. Executive Director,

Jindal Power Ltd. Stg-I, OP Jindal STPP, PO-Tamnar, Gjarghoda Tehsil, Chhattisgarh District - Raigarh, 496107

### 92. Executive Director,

Jindal Power Ltd. Stg-II, OP Jindal STPP, PO-Tamnar, Gjarghoda Tehsil, Chhattisgarh District - Raigarh, 496107

### 93. Executive Director,

Plot No Z-9, Dahej SEZ Area (Eastern side), Dahej, Taluka-Vagra, Gujarat Dist-Bharuch, 392130

### 94. Executive Director,

EMCO Power Ltd, Plot No B-1, Mohabala MIDC Growth Center Post Tehsil - Warora, Dist Chandrapur-Maharashtra 442907

### 95. Executive Director,

ESSAR POWER MP LTD. Village Bandhora, Post Karsualal, Tehsil Mada, Distt. Singrauli, Madhya Pradesh-486886

### 96. General Manager,

GMR CHHATTISGARH ENERGY LTD Skip House, 25/1, Museum Road Karnataka Banglore 560025

### 97. Managing Director,

Jaypee Nigri Super Thermal Power Project, Nigri District, Madhya Pradesh Singrauli 486668

### 98. Executive Director,

DCPP, OP Jindal STPP, PO-Tamnar, Gjarghoda Tehsil, Chhattisgarh District - Raigarh, 496107

### 99. Station Director,

Nuclear Power Corporation of India ltd, Kakrapara Atomic Power Station, PO - via Vyara, Gujarat Dist - Surat 395651



### 100. Station Director,

Tarapur Atomic Power Station 1&2, Nuclear Power Corporation of India Ltd, P.O. TAPP, Thane(Dist), Maharashtra- 401 504

### 101. Station Director,

Tarapur Atomic Power Station 3&4, Nuclear Power Corporation of India Ltd, P.O. TAPP, Thane (Distt.), Maharashtra- 401 504

### 102. Managing Director,

Korba West Power Co. Ltd., Village – Chhote Bhandar, P.O. - Bade Bhnadar, Tehsil - Pussore, District - Raigarh, Chhattisgarh Raigarh 496100

### 103. Managing Director,

KSK Mahanadhi, 8-2-293/82/A/431/A, Road No 22 Jubilee Hills Andhra Pradesh Hyderabad 500033

### 104. General Manager,

LANCO Power Ltd, Plot No - 397, Phase -III, Udyog Vihar, Haryana Gurgaon 122016

### 105. General Manager,

NTPC-SAIL Power Company Private Ltd, Puranena Village, Chhattisgarh Dist - Durg, Bhilai 490021

### 106. General Manager,

Ratnagiri Gas & Power Pvt Ltd, 2nd Floor, Block-2, IGL Complex, Sector-126, Expressway, Uttar Pradesh Noida 201304

### 107. Managing Director,

Sasan Power Ltd, DAKC, I Block, 2nd Floor, North Wing, Thane Belapur Road, Koparkhairana Maharashtra New Mumbai 400710



### 108. Managing Director,

Vandana Vidyut Bhavan,

M. G. Road

Chhattisgarh Raipur 492001

### 109. Managing Director,

RAPP Transmission Company Limited,

Mira Corporate Suites,

1&2 Ishwar Nagar,

Okhla crossing,

Mathura road,

New Delhi, 110065

### 110. General Manager,

LARA.

National Thermal Power Corporation of India Ltd,

Chappora, PO-Pussora,

Raigarh, Chhattisgarh.

### 111. General Manager,

Solapur,

National Thermal Power Corporation of India Ltd,

Western Region HQ,

Samruddhi Venture Park,

2<sup>nd</sup> Floor, MIDC Marol,

Andheri East, Mumbai,

Maharashtra.

### **Eastern Region**

### 112. State Load Despatch Center,

**GRIDCO** Colony

PO-Mancheswar Railway Colony,

BBSR Bhubaneshwar -751070

### 113. State Load Despatch Center,

Jharkhand State Electricity Board (JSEB)

Kushai Colony, Doranda,

Ranchi-834002

### 114. SLDC-BSEB.

Patna, Bihar State Electricity Board,

Vidyut Bhawan, Jawaharlal Nehru Marg,

Patna-800021

### 115. SLDC-W.Bengal,

P.O. Danesh Seikh Lane,

Andul Road

Howrah – 711109



### 116. Damodar Valley Corporation,

DVC Tower,

VIP Road, Kolkata,

WB 700054

### 117. Energy and Power Deptt.,

Govt. of Sikkim

Kazi Road,

Gangtok 737 201

### 118. General Manager,

Farakka Super Thermal Power Plant-I&II,

NTPC Ltd..

Farakka, WB 742236

### 119. General Manager,

Farakka Super Thermal Power Plant-III,

NTPC Ltd.,

Farakka, WB 742236

### 120. General Manager,

Kahalgaon Super Thermal Power Plant-I NTPC Ltd,

Bhagalpur Bihar 813214

### 121. General Manager,

Kahalgaon Super Thermal Power Plant-II NTPC Ltd,

Bhagalpur Bihar 813214

### 122. Executive Director,

Talcher Super Thermal Power Stn-I NTPC Ltd,

Nayapalli, Odisha 751012

### 123. Addl. General Manager,

National Thermal Power Corporation Limited,

BARH Thermal Power Station, Patna, Bihar 803213

### 124. GM(O&M),

Kanti Bijlee Utpadan Nigam Limited

Muzaffarpur Thermal Power Station Bihar Muzaffarpur 843130.

### 125. The General Manager(O&M),

Bharatiya Rail Bijlee Company Ltd.

Nabinagar, Khera Police Station Dist.-Aurangabad, Bihar-824303

### 126. General Manager (O&M),

Darlipali Super Thermal Power Project NTPC Ltd.

Odisha Darlipali, Sundergarh 770072. (upcoming)



### 127. Chairman, Damodar Valley Corporation DVC Tower, VIP Road West Bengal Kolkata 700054 (Not an ISGS but have many generating units)

### 128. Chief Engineer (Elect),

Teesta V HEP,

NHPC.

Singtam, East Sikkim 737134

### 129. Chief Engineer,

Rangit Hydro Electric Project NHPC,

P.O. Rangit Nagar

South Sikkim 737111

### 130. CEO.

Maithon Power Limited

MA-5 Gogna Colony,

P.O: Maithon, Dhanbad,

Jharkhand 828027

### 131. DGM (Electrical), Adhunik Power & Natural Resource Limited

Village: Padampur, PS: Kandra Tata-Seraikela Road,

Jharkhand 832105

### 132. GM (Power Sales & Regulatory),

GMR Kamalanga Energy Ltd,

Plot No.-29, Satyanagar,

Bhubaneswar, Odissa-751007

### 133. Head Power & Sales,

Jindal India Thermal Power Ltd.,

Plot No.12,Local Shopping Complex,

Sector-B1, Vasant Kunj, New Delhi- 110070

### 134. Advisor(Power),

Ind-Barath Energy Utkal Ltd,

Sahajbahal, PO CgarpaliBarpali,

Dist - Jharsuguda, Odisha, Pin - 768211

### 135. GM(C & RA),

Odisha Power Generation Corporation Ltd.,

Zone-A, 7th Floor, Fortuna Towers,

Chandrashekharpur, Odisha Bhubanneswar 751023. (Upcoming)

### 136. Sr. Vice President(O&M),

Teesta Urja Ltd.(Teesta -III HEP)

Vijaya Building, 2nd Floor, 17 Barakhamba Road

New Delhi New Delhi 110001



## 137. Asst. General Manager , DANS ENERGY PVT. LTD. 5th Floor, DLF Building No. 8, Tower C, DLF Cyber City, Phase – II, Gurgaon- 122002, Haryana

### 138. Chairman,

GATI Infrastructure Ltd, 268, UdyogVihar, Phase-IV, Gurgaon, Haryana 122001

### 139. President –Technical,Shiga Energy Private Ltd.5th Floor, DLF Building No.8,Tower C, Phase-II, Haryana Gurgaon 122002

140. VP (Commercial),Sneha Kinetic Power Project Private Ltd1366, Road no. 45, Jubilee HillsTelangana Hyderabad 500033

### **Southern Region**

141. Andhra Pradesh State Load Dispatch Centre, Room No. 611, 6th Floor, A Block APTRANSCO, Vidyut Soudha, Khairatabad

### 142. State Load Despatch Centre, KPTCL, 28, Race course Cross Road, Bangalore -560009

- 143. State Load Despatch Centre, Kalamassery, Executive Engineer O/o Chief Engineer, (Transmission), System Operation, Kalamassery-683503
- 144. System Control Centre,Electricity Department, Puducherry,137, Nethaji Subhash Chandra Bose Salai,Electricity Department-605001
- 145. TANTRANSCO, SLDC, MLDC Block, 144 Anna Salai, Chennai-600002
- 146. Telangana SLDC, Chief Engineer, Room No 611 A Block, SLDC of the State of Telangana (TSSLDC), TSTRANSCO, Vidyut Soudha, Khairtabad, Hyderabad-500082



### 147. General Manager,

National Thermal Power Corporation Ltd., SR Headquarters II & V Floors, MCH Complex, R.P. Road, Secunderabad-500 003,

### 148. General Manager,

National Thermal Power Corporation Ltd., SR Headquarters II & V Floors, MCH Complex, R.P.Road, Secunderabad-500 003,

### 149. General Manager,

Neyveli Lignite Corporation Ltd., Corporate Office, Block-01, P.O. Neyveli, PIN: 607 801, Cuddalore Distt., Tamil Nadu State.

## 150. The Deputy General Manager,Neyveli Lignite Corporation Ltd.,Corporate Office, Block-01,P.O. Neyveli, PIN: 607 801,Cuddalore Dist., Tamil Nadu State.

## 151. The Deputy General Manager,Neyveli Lignite Corporation Ltd.,Corporate Office, Block-01,P.O.Neyveli, PIN: 607 801,Cuddalore Dist., Tamil Nadu State.

### 152. The Deputy General Manager, Neyveli Lignite Corporation Ltd., Corporate Office, Block-01, P.O.Neyveli, PIN: 607 801, Cuddalore Dist., Tamil Nadu State.

## 153. The Station Director,Madras Atomic Power Station,Nuclear Power Corpn. Of India Ltd.,Kalpakkam – 603 102, Tamil Nadu State

# 154. The Deputy General Manager, Kaiga Generating Station, Nuclear Power Corpn. of India Ltd., P.O.Kaiga, Via Karwar, Karnataka - 581400, Karnataka State.



### 155. The Station Director,

Kudankulam Nuclear Power Project, Unit -1 Nuclear Power Corporation of India Ltd., P.O. Kudankulam, Radhapuram Taluk Tirunelveli District, Tamil Nadu - 627 106

### 156. The Station Director.

Kudankulam Nuclear Power Project, Unit -2 Nuclear Power Corporation of India Ltd., P.O. Kudankulam, Radhapuram Taluk Tirunelveli District, Tamil Nadu - 627 106

### 157. The Chief Operating Officer,

LANCO- Kondapalli Power Ltd., Stage-II Plot No.4, Software Units Layout, Hitech City, Madhapur, Hyderabad-500 081. Andhra Pradesh State

### 158. The Chief Operating Officer,

LANCO- Kondapalli Power Ltd., Stage-III Plot No.4, Software Units Layout, Hitech City, Madhapur, Hyderabad-500 081. Andhra Pradesh State

### 159. General Manager (O&M),

NTPC Tamilnadu Energy Company Ltd., Vallur Thermal Power Project, Vellivoyalchavadi P.O., Ponneri Taluk, Tiruvallur Dist., Chennai – 600103, Tamil Nadu State.

### 160. Sr. Vice President,

Meenakshi Energy Pvt. Ltd., Meenakshi, Plot No: 119, Road No: 10, Jubliee Hills, Hyderabad-500 033.

### 161. The Chief Executive Officer,

NLC Tamil nadu Limited, 2\*500, MW JV Thermal Power Project, Harbour Estate, Tuticorin, PIN: 628004, Tamil Nadu State.

### 162. Thermal Power Tech Corporation India Limited,

SPSR Nellore, 6-3-1090, A-Block, 5<sup>th</sup> Floor, TSR Towers, Raj Bhavan Road, Somajiguda, Hyderabad, 5000082.



### 163. Sr. Vice President,

Meenakshi Energy Pvt. Ltd., Meenakshi, Plot No: 119, Road No: 10, Jubliee Hills, Hyderabad-500 033.

### 164. The General Manager (Projects), Simhapuri Energy Pvt. Ltd., Madhucon Greenlands, 6-3-866/2, 3rd Floor, Begumpet, Hyderabad-500016.

### 165. Managing Director,

Coastal Energen Pvt. Ltd, 7th Floor, Buhari Towers, 4 ,Moores Road, Chennai, PIN: 600006, Tamil Nadu State

### 166. The Chief Commercial Officer (CCO) SEMBCORP Energy India Ltd., 6-3-1090, A-Block, 5th Floor, T.S.R Towers, Raj Bhavan Road, Somajiguda, Hyderabad 500082, Telangana

### 167. Senior General Manager, IL & FS Tamilnadu Power Company limited, C. Pudhupettai post, Parangipettai (via), Chidambaram(tk.),

Parangipettai (via), Chidambaram(tk.), Cuddalore-608502, Tamil Nadu.

### 168. General Manager, Sembcorp Gayatri Power Ltd., TP Gudur Mandal,

Nellore-524344, Andhra Pradesh.

### **North Eastern Region**

### 169. State Load Despatch Centre, Agartala, 79 Tilla, Kunjaban, Agartala, Tripura (West)

## 170. Department of Power,Government of Nagaland, SLDC Nagaland,Electricity Colony,Full Nagarjan Dimapur, Nagaland

### 171. Mizoram State Load Despatch Centre, Tuikhuahtlang, Aizawl -796001



- 172. State Load Despatch Centre, Assam, SLDC, AEGCL, Near 132kv Grid Sub Station, Kahilipara, Guwahati
- 173. General Manager, Doyang HEP, NEEPCO, Wokha, Nagaland
- 174. General Manager,Ranganadi HEP, NEEPCO,P.O. Ranganadi Proj. Dist. Subansiri,Ar. Pradesh-791121
- 175. General Manager, AGBPP, NEEPCO, Kathalguri, Tinsukia, Assam
- 176. General Manager, AGTPP, NEEPCO, Ramchandranagar, Agartala, Tripura
- 177. General Manager, KHANDONG HEP, NEEPCO, Umrangsoo, N.C.Hills, Assam
- 178. General Manager, KOPILI HEP, NEEPCO, Umrangsoo, N.C.Hills, Assam
- 179. General Manager, KOPILI-2 HEP, NEEPCO, Umrangsoo, N.C.Hills, Assam
- 180. Chief Engineer, NHPC Loktak HEP Leimatak-795124,Manipur
- 181. Ranganadi HEP (NEEPCO) Ranganadi HEP, NEEPCO Ltd., Yazali, Dist. Lower Subansiri, Andhra Pradesh-791119
- 182. Managing Director,
  ONGC Tripura Power Company Ltd,
  6th Floor, A Wing, IFCI Tower-61,
  Nehru Place, New Delhi, 110019



### 183. General Manager, Bongaigaon TPP, NTPC Ltd., P.O.-Salakati, Kokrajhar Dist. Assam-783369

184. Kameng HEP (NEEPCO),
EMG, Kameng HEP, NEEPCO, Kimi,
P.O.- Bhalukpong, Post Box-2, West Kameng
Dist., Arunachal Pradesh, PIN – 790114

### 185. Pare HEP (NEEPCO), Pare HEP, NEEPCO Ltd, Sopo, P.O- Doimukh, Dist- Papumpare, Arunachal Pradesh, PIN – 791112

186. State Load Despatch Centre, Agartala, 79 tilla, Kunjaban, Agartala, Tripura (West)

### 187. Department of Power, Government of Nagalnd, SLDC Nagaland, Electricity Colony, Full Nagarjan Dimapur, Nagaland.

- 188. Mizoram State Load Despatch Centre, Tuikhuahtlang, Aizawl -796001
- 189. State Load Despatch Centre, Assam, SLDC, AEGCL, Near 132kv Grid Sub Station, Kahilipara, Guwahati

...Respondents

- 190. Member Secretary,Northern Regional Power Committee18-A, Shaheed Jeet Singh Sasanwal Marg,Katwaria Sarai,New Delhi-110 016
- 191. Member Secretary, Southern Regional Power Committee 29, Race Course Cross Road, Bangalore-560 009.
- 192. Member Secretary,Eastern Regional Power Committee14, Golf Club Road,Kolkata-700 033



- 193. Member Secretary,
  Western Regional Power Committee
  F-3, MIDC Area,
  Andheri (East),
  Mumbai-400 093
- 194. Member Secretary,North Eastern Regional Power CommitteeNERPC Complex,Dong Parmaw,Lapalang,Shillong-6
- 195. Chief Engineer (Grid Management), Central Electricity Authority Sewa Bhawan, R.K.Puram, New Delhi-110 022.
- 196. Chief Engineer(National Power Committee),Central Electricity Authority,18-A, Shaheed Jeet Singh Sasanwal Marg,Katwaria Sarai, New Delhi-110 016

...Proforma Respondents

Parties Present: Shri S.R. Narasimhan, NLDC Shri N. Nallarasan, NLDC Shri Phanisankar Chilakuri, NLDC

### **ORDER**

The Petitioner, National Load Dispatch Centre (NLDC) is the system operator at the national level and has made the following prayers:

- a) Direct all ISGS stations whose tariff is regulated / determined by CERC to install equipment as per the requirement mentioned in the Petition at the unit control rooms for transferring the required data for AGC by 30th June 2019.
- b) Direct all ISGS stations whose tariff is regulated / determined by CERC to ensure communication from nearest wide band node to the RTU in the unit control room by 30th June 2019.
- c) Direct Central Transmission Utility (CTU) to ensure communication availability

from NLDC/RLDCs to nearest wide band node/switchyard for the generating stations in a redundant and alternate path ensuring route diversity and dual communication by 30th June 2019.

- d) Decide the mark up price for secondary regulation service through AGC.
- e) Allow NLDC/RLDCs to test, tune and operate the AGC system for providing the signals to the power plants as and when they comply with the directions above.
- f) Allow any variation in the generation during testing phase to be settled under DSM.
- g) Allow NLDC/RLDCs to put all the Phase-I plants under continuous operation on AGC before 31st December 2019.
- h) Direct Phase-II plants in the detailed modus operandi to provide infrastructure at RTU/internal communication.
- i) Road map for implementation of AGC at RLDCs in future may be accepted.
- *j)* Pass any other orders as this Commission may deem fit and proper under the given facts and circumstances.

### **SUBMISSIONS OF THE PETITIONER**

- 2. The Petitioner has submitted that vide Order dated 13.10.2015 in petition no 11/SM/2015, the Commission gave the roadmap for 'Operationalization of Generation Reserves in the Country'. The Order mandated that each region should maintain primary, secondary and tertiary reserves. The objective of the Order was to introduce 'Spinning Reserves' in the country, which is one of the important components for ensuring grid security, quality and reliability by achieving adequacy of supply and maintaining loadgeneration balance. All generating stations that are regional entities were directed to 'must plan' operationalization of Automatic Generation Control (AGC) along with reliable telemetry and communication by 01.04.2017. The Commission noted that this would entail a one-time expense for the generators to install requisite software and firmware, which could be compensated for and that the communication infrastructure must be planned by the Central Transmission Utility (CTU) and developed in parallel, in a cost-effective manner.
- 3. The Commission directed the Petitioner to upload the detailed modus operandi on 'Operationalization of Spinning Reserves' on NLDC website and seek comments from the

stakeholders by 11.08.2017 and file the comments received from stakeholders within two weeks thereafter. Accordingly, the report was also uploaded on the NLDC website.

- 4. The Petitioner has submitted that the detailed implementation plan was also discussed in the National Power Committee (NPC) meeting held at Indore on 08.09.2017. An agenda on 'secondary frequency control' was sent to NPC for discussion in the respective Regional Power Committees (RPC). The Expert Group constituted (in May 2017) by the Commission to review and suggest measures for bringing power system operation closer to National Reference Frequency, recommended that the frequency control continuum as given in their report may be adopted and included as part of the Grid Code (hereinafter referred to as 'IEGC') through an amendment to Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010. Further, it was recommended that AGC must be implemented throughout the country at the earliest in line with the Commission's recommendation of treating a region as a balancing area and that the Performance Metrics for AGC payments may be introduced once sufficient experience is gained through the pilot project (carried out at Dadri generating station of NTPC). AGC at the intra-State level, particularly for large states, was to be implemented in line with directions by the Appropriate Commission(s).
- 5. The Petitioner has submitted that the Commission in its order dated 06.12.2017 in Petition No. 79/RC/2017 approved the Commissioning of the AGC Pilot Project between NLDC and NTPC Dadri Stage-II and various developments in the AGC Pilot were acknowledged by the Commission. Vide the above order, the Commission also directed that similar pilot projects may be replicated by NLDC, in at least one other regional grid of the country. Dadri Stage-II was successfully taken under remote as a part of AGC pilot project from NLDC from 1225 Hrs. of 04.01.2018 and is under continuous operation. Further, data is being submitted by NLDC to NRPC in the agreed format on a weekly basis.
- 6. The Petitioner has submitted that Karnataka Power Transmission Corporation Limited (KPTCL) together with (United States Agency for International Development (USAID) has proposed AGC pilot project on Varahi and Sharavathi Hydro Power Plants. On 10.02.2018, SRLDC, USAID and NLDC visited NP Kunta solar park in Andhra Pradesh for understanding the feasibility of AGC implementation. USAID agreed to take the AGC implementation at NP Kunta Solar power project under 'Greening the Grid' (GtG)-RISE

project. The matter was also discussed in the 33<sup>rd</sup> meeting of SRPC held on 17.02.2018 at Puducherry. A workshop was organised by USAID and NLDC on 15.05.2018 at Andhra Pradesh SLDC, Vijayawada to explain the basic architecture of the AGC project and the proposed project at NP Kunta to stakeholders.

- 7. On 18.05.2018, Letter of Award was issued by NTPC Simhadri to M/S Siemens for the supply, testing and commissioning of software and hardware and implementation of the AGC pilot project at NTPC-Simhadri. AGC on Barh (Eastern Region), Bongaigaon (North Eastern Region) and Mauda (Western Region) are power plants of NTPC under contracting phase of implementation.
- 8. The Petitioner has submitted that it has started up-gradation of SCADA from October 2017. AGC set up is envisaged to be capable of sending and receiving AGC signals to all Regional Entity generating stations to start with for the first time in India. The RLDCs' SCADA/EMS system was recently upgraded before AGC was notified through the Commission's Order. Hence, considering a region as a balancing area, AGC is being implemented through NLDC, which is a unique experiment as five (5) AGCs are being operated from a single control center at NLDC. Further, as a next step, discussion could start on the roadmap to progressively shift AGC control to RLDCs over the next 3-5 years. At the intra-regional level, discussion at RPC level is on for introducing AGC at least in the few intra-State generators in RE-rich States.
- 9. The Petitioner has submitted that the CERC (Communication System for inter-State transmission of electricity) Regulations, 2017 has provided detailed roles and responsibilities of various organizations with respect to communication. NLDC was given the responsibility for preparation and issuance of guidelines with the approval of the Commission on the interfacing requirements in respect of terminal equipment, RTUs, SCADA, PMUs, Automatic Generation Control (AGC), Automatic Meter Reading (AMR), Advanced Metering Infrastructure (AMI), etc. and for data communication to the respective control centres. The Generic Technical Specifications for AGC connecting equipment that has to be procured by the power plants were prepared by the Petitioner based on the experience of the AGC pilot project (at Dadri) for full scale implementation of AGC. Generating stations have to install AGC connecting equipment at the unit control rooms for transferring the required set of data for AGC.

10. The Petitioner has submitted that Regional Secondary Reserves quantum, mandated by the Commission are given as below:

Secondary Reserves quantum needed in MW (Region wise)		
NR	800	
ER	660	
WR	800	
SR	1000	
NER	363	
Total	3623	

11. The Petitioner has suggested that the detailed implementation plan pan-India for AGC implementation is proposed in the following manner:

### Phase-I

(a) Inter-State Generating Stations (ISGS) generators, whose tariff is regulated/adopted by the Commission, are proposed to be made capable of participating in 'Secondary Control' since the tariff for these generators is already available and there are fewer communication issues. This is also because in case of these generating stations, Ancillary Services/ AGC Pilot Project Framework is available for settlement (without the refund of fixed charges as mentioned in the Half Yearly Feedback on Ancillary Services and CERC Order on AGC Pilot Project) and, therefore, its implementation is expected to be dispute free. However, limiting AGC implementation to only these generating stations may not be sufficient to ensure availability of the full quantum of reserves as mandated by the Commission.

### Phase-II

(b) All Regional Entity generating stations scheduled by RLDCs (over and above the Phase-I power stations mentioned above) can be made capable of participating in secondary control. However, Declared Capability (DC) at present is not taken from these generating stations by RLDCs. Some Independent Power Producers (IPP) have part Power Purchase Agreements with discoms/ traders while part capacity is untied, and power is sold under merchant contracts. Tariff for these generators has to be

decided and agreed upon *a priori* for secondary control participation of these generators. DC and Schedule have to be obtained from these generators similar to Central Sector generating stations for reserve estimation. Many of these regional entity generating stations operate in the day-ahead energy market and the day-ahead prices may have a significant role in respect of these generating stations as far as availability to the grid at any instant is concerned. Low prices in the Day-Ahead Market (DAM) on a sustained basis may lead to many of these units remaining off the grid. The following, inter-alia, may be the requirements for the Regional entity generating stations equipped under Secondary Control:

- The generating stations shall bear the cost of secondary control hardware at the generating station end including the cost of the fibre optic cable from the generating station control room to the nearest communication node.
- Share DC and Schedule like ISGS generators on day ahead basis and subsequent revisions with RLDCs.
- Payment for energy and incentive will be as decided by the Commission.
- The generating stations shall have working control systems for turbine, boiler and governor. Governor response plots/ graphs of past incidents have to be submitted to concerned RLDC.
- Existing wide band communication node to be established within a radius below 30-40 km from the plant to communicate with the nearest RLDC. Distance need not be a binding limitation and the connectivity of the generating station with the communication node can be seen on case to case basis based on merit.
- 12. The Petitioner has submitted that Primary, secondary and tertiary generation reserves are required for frequency control and ensuring reliable operation of the grid, particularly under high Renewable Energy (RE) penetration. Primary control provision has been existing in the IEGC but its enforcement has been an issue that has been highlighted before the Commission. Secondary control had been absent in the system so far while tertiary frequency control was introduced only in April 2016 through the Central Electricity Regulatory Commission (Reserves Regulation Ancillary Services) Regulations, 2016 (or for short, RRAS Regulations). Through Order dated 16<sup>th</sup> July 2018 in Petition No. 07/SM/2018, Fast Response Ancillary Services or FRAS was ordered by the Commission for central sector hydro stations and is under implementation phase.

- 13. The Petitioner has submitted that the following issues become important when one looks at the entire continuum of frequency control:
  - i. Ensuring accurate load forecasting and Renewable Energy (RE) forecasting: This is the first step towards reliability as generating units need to get committed based on the forecasts. Starting from Discom level, the forecasts need to be aggregated for the State at SLDCs level, at RLDCs for the regional level and at NLDC for the All-India level.
  - ii. Evaluating Area Control Error (ACE) of each control area: Bias may be taken as equal to Frequency Response Characteristics (FRC) of the State in past ten events. For ACE, high quality measurement of line flows and frequency at 10 seconds or better periodicity at LDCs is a must. Further, seamless transfer of schedule data from off-line systems to SCADA must be ensured. RLDCs are already bringing forth the non-availability of real time data in the RPC forums and this needs to be addressed promptly.
  - iii. <u>Primary Response</u>: The SLDCs must also monitor the primary response from the generating units within the State and report to the respective SERCs as directed by CERC vide its order dated 31<sup>st</sup> July 2017 in Petition No. 84/MP/2015.
  - iv. <u>Measurements</u>: For AGC, high quality measurements are needed for inter-regional tie lines and generating stations under AGC. As stated above, periodic monitoring of the data quality needs to be done at the RPC forums and chronic problems of non-availability of data are addressed promptly so that real time operation is smooth.
  - v. <u>Fiber Optic Communication</u>: Fiber optic communication from Regional Entity generating station to nearest CTU node and from there on to RLDCs/ NLDC is a must and it could be closely monitored through the RPC forums. This is required irrespective of whether we have a regulated system of secondary reserves procurement or a market based one.
  - vi. <u>Participation</u>: ACE is allocated to the generating stations under AGC based on the selected participation factor mode in the AGC software. The participation of each generating station will be calculated by the AGC software based on the weightage assigned to different attributes of the plant and the grid. Spinning reserve availability, ramp rate and variable cost of the generating station are the important attributes that are typically considered. In case of inter-/ intra-regional transmission constraints during

outages, certain plants may not be able to participate in AGC till normalization of transmission system.

- 14. The Petitioner has submitted that 'Spinning Reserves' viz. DC on bar minus schedules available in real time in ISGS is currently used for rescheduling/ tertiary reserves by States, tertiary frequency control through Reserves Regulation Ancillary Services and now being envisaged for secondary control through AGC. It is also available for primary control though the IEGC clearly specifies that the schedules should not exceed capacity on bar less Normative Auxiliary Consumption. This ensures that even if the power plant is fully scheduled, the overload capacity and margins in auxiliary consumption is able to provide primary response.
- 15. The Petitioner has submitted that after the forecast of load and RE generation, the scheduling of conventional generation resources by the States assumes importance. Here, apart from scheduling, the States also need to indicate the amount of hot spinning reserves it is holding. The reserves could be held either within the State or at the ISGS where the State has a share but it should be replenished whenever there is a contingency such as a generating unit tripping within the State. Unless such a mechanism is in place, the secondary control would not work as all the reserves would get depleted quickly. DC on bar less the schedules equals the hot spinning reserves. It was observed that hot spinning reserve gets depleted daily during the morning and evening peak hours when States requisition their full entitlement. Under this situation, the State utilities ought to have reserves elsewhere within the State.
- 16. The Petitioner has submitted that on 06.09.2018, the Commission has issued a discussion paper on 'Redesigning Ancillary Services Mechanism in India' and comments were invited from stakeholders. The Petitioner is of the view that the physical infrastructure in terms of communication and suitable hardware/ software at the power plants is sine qua non for secondary control through AGC irrespective of whether the same is regulated or market-based. The only variable is the quantum of secondary reserves required on day to day basis.

### **PROCEEDINGS DURING HEARING**

17. The Petition was admitted on 25.10.2018. During the hearing on 31.1.2019, the

Petitioner submitted that the present petition has been filed for implementation of AGC in India.

- 18. The Petitioner further submitted that the Commission in its Order dated 06.12.2017 in Petition No. 79/RC/2017 approved the commissioning of AGC pilot project between NLDC and NTPC Dadri Stage-II and the Commission also directed that similar pilot projects may be replicated by NLDC, in at least one other regional grid of the country. Accordingly, one plant in each region has been identified and AGC has also been commissioned in Simhadri and Mauda generating station.
- 19. The Petitioner requested the Commission to direct ISGS to install the equipment in power plants for accepting signals from NLDC. After hearing, the Commission directed the Petitioner to furnish the Minutes of Meeting held with RPCs wherein RPCs have given their consent to the AGC pilot project. The Commission further directed the Petitioner to submit the feedback report on the operation of AGC at NTPC Dadri Stage-II along with the summary of findings of this pilot project.
- 20. The Petitioner has complied with the directions and submitted the minutes of the special meetings on AGC pilot project which were held with all RPCs. The Petitioner has also submitted the feedback report before the Commission on 15<sup>th</sup> February 2019, highlighting the learning from the pilot project. Several learning including those on the implementation aspects, communication protocols, generator regulation and load following capabilities, metering, monitoring, visualisation, accounting etc. were gathered via pilot project and explained in the feedback report. The Pilot projects have also provided capacity building in the field of AGC which will be useful during implementation of secondary control on a large scale.

### **ANALYSIS & DECISION**

- 21. We have heard the Learned Counsels for the Petitioner and have carefully perused the records.
- 22. The Commission is of the view that the most important responsibility of the Power System operators is to maintain reliability of the Power System by maintenance of Load -

Generation balance. For a large complex grid such as the Indian grid, primary, secondary and tertiary frequency controls are must-have tools to ensure reliability. With the objective of ensuring grid security, quality and reliability, the Commission vide Order dated 13.10.2015 in Petition no 11/SM/2015 had laid down a roadmap for 'Operationalization of Generation Reserves in the Country'. It was envisaged that apart from the primary reserve at the national level, secondary reserve should be maintained by each region and tertiary reserve by each State. All the generating stations that are regional entities were directed to plan to operationalize AGC along with reliable telemetry and communication by 01.04.2017. The NLDC was directed to submit a detailed procedure to operationalize reserves in the country vide Order dated 13.10.2015.

- 23. The Commission notes that an 'outline procedure' was submitted by NLDC vide letter dated 15.12.2015 in which it was proposed to take up a pilot project with one of the NTPC plants in a region based on which further activities could be taken up. On 05.02.2016, NLDC was advised to submit the draft detailed procedure and implementation plan for operationalization of Reserves within three months of implementation of Ancillary Services Regulations. After various brainstorming sessions and meetings, NLDC submitted the detailed procedure on Operationalization of Spinning Reserves on 14.07.2017 and recommended that secondary control should be added as an Ancillary Service.
- 24. The Commission observes that the 'National Electricity Policy' also mandates that adequate reserves may be maintained to ensure secure grid operation. The Commission is of the view that collective efforts of the stakeholders in implementation of the AGC are a step forward and will go a long way in development of the secondary reserves in the country leading to stable frequency operation and grid security and reliability.
- 25. The Commission observes that the feedback on implementation of AGC submitted by NLDC highlights the need for enhancing adequacy of reserves in the country. It has been stated that valuable experience has been gained in terms of implementation aspects, communication protocols, generator regulation and load following capabilities, cyber security etc. which is useful during implementation of secondary control on a large scale. The Petitioner has submitted that from the interactions with national and international experts on power systems and experience with Ancillary Services till date, the general understanding was that different solutions as a package like load and Renewable Energy (RE) generation

forecast, proper portfolio management by the States, primary response from the generators, secondary control in the form of AGC, Ancillary Service products in different timeframes etc. are needed for stable frequency operation of the power system. No unique solution existed. NLDC report emphasised that a bad or no forecast of load/ RE generation and poor portfolio management by the State utilities would lead to heavy deviations from schedule and grid indiscipline exhausting all reserves in the system and making the system insecure. AGC effectiveness would have to be seen in this overall context. It was further highlighted in the feedback report that deployment of two-three plants under AGC with 200 MW-300 MW reserve might not be sufficient for a grid size like that of India. The Commission observes that the Expert Group on 'National Reference Frequency' in its report submitted to the Commission in November 2017 recommended that AGC must be implemented throughout the country at the earliest and Performance Metrics for such AGC payments may be introduced once sufficient experience is gained through the pilot project.

- 26. The Petitioner has suggested that implementation of AGC be undertaken in Phases. Under Phase-I, ISGS generators, whose tariff is regulated/ adopted by the Commission, are proposed to be made capable of participating in 'Secondary Control'. Dadri Stage-II NTPC in Northern Region was the first AGC pilot project of the country which was approved by the Commission vide Order in Petition No.79/RC/2017 on 06.12.2017 and is in continuous operation from 1225 Hrs. of 04.01.2018. The Commission also directed that similar pilot projects may be replicated by NLDC, in at least one other regional grid of the country. Accordingly, four more AGC pilot projects have been/are being implemented viz. Simhadri Stage-II in Southern Region, Mauda Stage-II in Western Region, Barh Stage-II in Eastern Region and Bongaigaon in North-Eastern Region.
- 27. The Commission observes that there is one-time expense involved for the generators to install requisite software and firmware. The Commission has been informed that the implementation cost i.e. placing of order for the equipment and integration cost of the four AGC pilot projects which have been commissioned viz. Dadri Stage-II NTPC in Northern Region Simhadri Stage-II in Southern Region, Mauda Stage-II in Western Region and Barh Stage-II in Eastern Region, is in the range of Rs. 30.00 lakhs to Rs. 50 lakhs per generating station. The Commission accepts the Petitioner's proposition that the cost of such equipment at generating stations for AGC implementation is not significant and ideally all ISGS stations should be AGC enabled. The Commission notes that majority of the thermal stations

regulated by the Commission have station capacity of 200 MW and above and the AGC support is mainly expected from these facilities apart from the hydro generating stations other than Run-of-River projects. It will therefore be prudent, also from the point of view of cost effectiveness to ensure that the thermal generating stations with installed capacity of 200 MW and above and all hydro stations with capacity exceeding 25 MW necessarily have the capability to provide AGC support. Further, the Commission is of the view that with due regard to the nature of the Run-of-River Hydro projects it may not be advisable to mandate such plants to provide AGC support, as this might lead to spillage/ under-utilization of water, which should be avoided. Accordingly, the Commission directs all thermal Inter State Generating Stations (ISGS) that are regional entities with installed capacity of 200 MW and above and all hydro stations with capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by the Commission, to install the required software and firmware for implementation of AGC at the unit control rooms for transferring the required set of data for AGC. These regional entity generators may approach the Commission under relevant regulations and provisions of PPA for compensation of this one-time cost. The Commission also directs the Central Transmission Utility and the NLDC to commission the required communication system in parallel.

- 28. Once the aforesaid generating stations are AGC enabled, NLDC/ RLDCs shall be allowed to test, tune and operate the AGC system for providing the signals to the power plants. With this decision to make the ISGS stations AGC compliant, the Commission is of the view that any other pilot beyond the five pilots already initiated by NLDC, may not be needed.
- 29. As regards compensation for AGC support and deviation charges, it is clarified that the framework in this regard as stipulated in the Commission's Order in Petition no. 79/RC/2017 dated 06.12.2017 shall apply to the five pilot projects as also to other ISGS as and when they are AGC enabled. This arrangement shall remain in place till further Orders or till relevant regulations inter-alia on compensation for AGC services are framed by the Commission.
- 30. The Commission has noted the suggestions of the Petitioner for covering under Phase-II, other regional entity generators (other than those whose tariff is determined or adopted by

the Commission). The Commission is of the view that decision on this issue cannot be taken in the present petition. It needs wider consideration.

31. The Commission observes that NLDC in its report on implementation of RRAS, has recommended moving towards market-based procurement of ancillary service for a more robust design. The relevant excerpt is reproduced below:

"Once the scope of present implementation of ancillary services is enlarged from the regulated generation stations at inter-state level to include state-level generators also, a critical mass would be achieved. Moreover as more and more generators start participating in regulation services, closer monitoring of the performance of generating stations would also be needed. The implementation would also be more robust by design and subsequently, based on the experience gained, market based procurement of ancillary services could also be thought of."

- 32. The Commission is of the view that the experience gained under RRAS underlines the need for a calibrated approach to transform the extant administered Ancillary Services mechanism to a market-based mechanism with the objective of increasing the ambit of potential providers of such services at efficient costs and enhanced reliability of the grid. The Staff Paper on 'Redesigning Ancillary Services Mechanism in India' issued by staff of the Commission on 06.09.2018 has highlighted that the physical infrastructure in terms of communication and suitable hardware/ software at the power plants is sine qua non for secondary control through AGC irrespective of the fact whether the same is regulated or market-based. The only variable is the quantum of secondary reserves required on day to day basis.
- 33. The Commission observes that given the changes in technology, generation mix and increasing decentralized generation, and locational ancillary requirements, long term bilateral contracts for ancillary support should be avoided. Same resource can provide multiple flexibility services. For example, a generator that can provide fast tertiary response can also provide slow tertiary response. An arrangement which bundles multiple flexibility services has some advantages by allowing such generators to utilize their capabilities to serve various system requirements thereby reducing the cost of providing individual services. Accordingly, the Commission directs the staff of the Commission to initiate a comprehensive review of Ancillary services framework based on these principles, and present to the Commission for suitable decision.

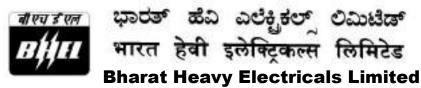
### **SUMMARY**

- 34. In the interest of reliable and safe grid operation, the Commission directs that all the ISGS stations whose tariff is determined or adopted by CERC shall be AGC-enabled and the ancillary services including secondary control through AGC be implemented as per the following direction:
  - i. All thermal ISGS stations with installed capacity of 200 MW and above and all hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC are directed to install equipment at the unit control rooms for transferring the required data for AGC as per the requirement to be notified by NLDC. NLDC shall notify the said requirements within one month of this order.
  - ii. All such ISGS stations whose tariff is determined or adopted by CERC shall have communication from the nearest wide band node to the RTU in the unit control room.
  - iii. The Central Transmission Utility (CTU) is directed to have communication availability from NLDC/ RLDCs to the nearest wide band node/ switchyard for the generating stations in a redundant and alternate path ensuring route diversity and dual communication.
  - iv. The NLDC is also directed to commission the required communication infrastructure.
  - v. The expenditure as a result of compliance of the above directions may be claimed as per relevant regulations or provisions of the PPA.
  - vi. The NLDC is directed to monitor implementation of the above directions so that all the ISGS stations whose tariff is determined or adopted by CERC are AGC-enabled within six months of this order.
  - vii. The framework regarding compensation for AGC support and deviation charges as stipulated in the Commission's Order in Petition no. 79/RC/2017 dated 06.12.2017 shall apply to the five pilot projects as also to other ISGS as and when they are AGC enabled. This arrangement shall remain in place till the relevant regulations interalia on compensation for AGC services are framed by the Commission.
- viii. NLDC/RLDCs are allowed to operate the AGC system for enabling the signals to the power plants at the earliest.



- ix. All new thermal ISGS stations with installed capacity of 200 MW and above and hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC shall mandatorily have the capability to provide AGC support.
- 35. With the above directions, Petition No. 319/RC/2018 stands disposed of.

Sd/-Sd/-आई. एस. झाडॉ एम. के. अय्यरपी. के. पुजारीसदस्यसदस्यअध्यक्ष



(A Government of India Undertaking)
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Ref: GM-NTPC/404/CE-HMI-02

Dated 21/09/2022

Sub: Recommendation for HMI Upgrade

The Windows XP/ Windows 7 based workstation hardware and Microsoft Operating System available at sites (projects listed in annexure-1) is out of mainstream support from OEM and Microsoft respectively. Also the support for Symantec Antivirus version 10.0 has been withdrawn by the OEM and no more security updates / virus definitions are available for that version. Hence the HMIs-maxStations are prone to vulnerabilities which can tamper the operation of plant.

HMI Upgrade for the projects mentioned in Annexure-1 is proposed due to various obsolescence in the DCS components as detailed below.

DCS Component		Existing version / model / Specification	Obsolescence
Workstation / Engineering server / Historian server	Hardware	Workstation: Intel Core 2 Duo processor, 1GB RAM, 146 GB SAS disk, 10 Mbps Ethernet port.  Server: Intel Xeon dual core processor, 2 GB RAM, 3x76GB HDD, 10 Mbps Ethernet port.	Lower Processor cores and speed, lower HDD capacity and RAM requirements incompatible for latest software requirements; Lower network bandwidth of 10Mbps restricting communication speed capability of latest DCS components and attributing to latency.
	Operating System	Windows 7 SP1 / Windows XP / Windows Server 2008 R2	Operating Systems were declared End of Support by the OEM- Microsoft as mentioned below: Windows XP - April' 2014 Windows 7 - Jan' 2020 Windows Server 2008 R2 - Jan' 2020
	maxDNA software	maxDNA 4.2.1 / 4.5 / 4.5.1 / 6.0.x	These versions are not compatible with latest Operating Systems; more improved version of maxDNA- release 7.x is available suiting the latest OS.
	Antivirus Software	Symantec 10.x / Symantec 11.x / Symantec 12.x	Declared obsolete by the OEM- Broadcom and no longer updates or virus definitions are available.





### ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್ भारत हेवी इलेक्ट्रिकल्स लिमिटेड

### **Bharat Heavy Electricals Limited**

(A Government of India Undertaking)
ELECTRONICS DIVISION

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Network	Switch	10 Mbps backbone	Lower network bandwidth of 10Mbps restricting communication speed capability of latest DCS components.
	Network Hardening settings	No validated Network hardening settings	Not suitable for latest network requirements with hardening features.

Prakash D AGM (CE-Engg-I)



Annexu	re-1 List of upgrade projects
SI No	Project Name
1	Barauni_Stage-2
2	Bongaigaon_Stage-1
3	Dadri-Thermal_Stage-1
4	Dadri-Thermal_Stage-2
5	Darlipalli_Stage-1
6	Farakka_Stage-2
7	Farakka_Stage-3
8	Gadarwara_Stage-1
9	KoldamHydro
10	Korba_Stage-1
11	Korba_Stage-3
12	Mauda_Stage-1
13	Mauda_Stage-2
14	NorthKaranpura_Stage-1
15	Rihand_Stage-2
<mark>16</mark>	Rihand_Stage-3
17	Simhadri_Stage-2
18	TANDA_Stage-1
19	TANDA_Stage-2
20	Unchahar_Stage-4
21	Vindhyachal_Stage-4
22	Vindhyachal_Stage-5
23	BRBCL Stage-I
24	Jhajjar Stage-I
25	KBUNL Stage-I
26	KBUNL Stage-II
27	NPGCL Stage-I
28	NSPCL Bhilai Stage-I
29	NTECL Stage-I





भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
सूचना प्रौद्योगिकी एवं साइबर सुरक्षा प्रभाग
Information Technology & Cyber Security Division

विषय: CEA (Cyber Security in Power Sector) Guidelines, 2021.

CEA is mandated to prepare 'Guidelines on Cyber Security' in Power Sector under the provision of regulation (10) of the Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019. Guidelines on Cyber Security in Power Sector incorporating the cardinal principles has been prepared by CEA. In compliance to the provision of the above regulation, CEA (Cyber Security in Power Sector) Guidelines, 2021 are issued for compliance by all entities listed in the clause 2.3 (Applicability of the Guidelines) of the guidelines.

Encl: Guidelines on Cyber Security

(V.K Mishra) Secretary CEA



### **CEA (Cyber Security in Power Sector) Guidelines, 2021**

### 1.0 Background

- 1.1 Cyber intrusion attempts and Cyber-attacks in any critical sector are carried out with a malicious intent. In Power Sector it's either to compromise the Power Supply System or to render the grid operation in-secure. Any such compromise, may result in maloperations of equipments, equipment damages or even in a cascading grid brownout/blackout. The much hyped air gap myth between IT and OT Systems now stands shattered. The artificial air gap created by deploying firewalls between any IT and OT System can be jumped by any insider or an outsider through social engineering. Cyber-attacks are staged through tactics & techniques of Initial Access, Execution, Persistence, Privilege Escalation, Defence Evasion, Command and Control, Exfiltration. After gaining the entry inside the system through privilege escalation, the control of IT network and operations of OT systems can be taken over even remotely by any cyber adversary. The gain of sensitive operational data through such intrusions may help the Nation/State sponsored or non-sponsored adversaries and cyber attackers to design more sinister and advanced cyber-attacks.
- Government of India has set up the Indian Computer Emergency Response Team (CERT-In) for Early Warning and Response to cyber security incidents and to have collaboration at National and International level for information sharing on mitigation of cyber threats. CERT-In regularly issues advisories on safeguarding computer systems and publishes Security Guidelines which are widely circulated for compliances. All Central Government Ministries/ Departments and State/Union Territory Governments have been advised to conduct cyber security audit of their entire Cyber Infrastructure including websites at regular interval through CERT-In empanelled Auditors so as to identify gaps and appropriate corrective actions to be taken in cyber security practices. CERT-In extends supports to enable Responsible Entity in conducting cyber security mock drills and in assessment of their preparation to withstand cyber-attacks. The Responsible Entity must submit Reports of Cyber Audit of cyber security controls, architecture, vulnerability management, network security and periodic cyber security drills to sectoral CERT as well as CERT-In. Team of experts shall review these reports and shortcomings if any in the compliances shall be flagged by them. CERT-In on regular basis also conducts workshops and training programs to enhance Cyber awareness of all Stakeholders.
- 1.3 Ministry of Power has created 6(six) sectoral CERTs namely Thermal, Hydro, Transmission, Grid Operation, RE and Distribution for ensuring cyber security in Indian Power Sector. Each Sectoral CERT has prepared their sub-sector specific model Cyber Crisis Management Plan(C-CMP) for countering cyber-attacks and cyber terrorism. Each Sectoral CERT has circulated their model C-CMPs for preparation and implementation of organization specific C-CMP by each of their Constituent Utility.
- 1.4 All Responsible Entities, Service Providers, Equipment Suppliers/Vendors and Consultants engaged in Power Sector are equally responsible for ensuring cyber security of the Indian Power Supply System. They are to act timely upon each threat intelligence,



advisories and other inputs received from authenticated sources, for continuous improvement in their cyber security posture.

- 1.5 In the current Indian scenario though many cyber security directives and guidelines exists, but none of them are power sector specific. Ministry of Power has directed CEA to prepare Regulation on Cyber Security in Power Sector. And as an interim measures CEA has been directed to issue Guideline on Cyber Security in Power Sector, under the provision of Regulation 10 on Cyber Security in the "Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019".
- 1.6 The Guidelines on Cyber Security, in the form of Articles written below, requires mandatory Compliance by all Responsible Entities. The Guidelines shall come into effect from the date of issue by Central Electricity Authority, New Delhi.
- 2.0 Hereby the Guidelines on Cyber Security are drawn in the form of Articles for compliance by the Requester as well as User under the following provision of Regulation 10 on Cyber Security, in the "Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019".

"The requester and the user shall comply with cyber security guidelines issued by the Central Government, from time to time, and the technical standards for communication system in Power Sector laid down by the Authority."

### 2.1 **Objective of issuing Guideline**:

- a) Creating cyber security awareness
- b) Creating a secure cyber ecosystem,
- c) Creating a cyber-assurance framework,
- d) Strengthening the regulatory framework,
- e) Creating mechanisms for security threat early warning, vulnerability management and response to security threats,
- f) Securing remote operations and services,
- g) Protection and resilience of critical information infrastructure,
- h) Reducing cyber supply chain risks,
- i) Encouraging use of open standards,
- j) Promotion of research and development in cyber security,
- k) Human resource development in the domain of Cyber Security,
- 1) Developing effective public private partnerships,
- m)Information sharing and cooperation
- n) Operationalization of the National Cyber Security Policy

### 2.2 Within the text of these Articles, 'Responsible Entity' shall mean all:

- a) Transmission Utilities as well as Transmission Licensees.
- b) Load despatch centres (State, Regional and National),
- c) Generation utilities (Hydro, Thermal, Nuclear, RE),
- d) Distribution Utilities
- e) Generation Aggregators,
- f) Trading Exchanges,
- g) Regional Power Committees, and
- h) Regulatory Commissions.



### 2.3 Applicability:

All Responsible Entities as well as System Integrators, Equipment Manufacturers, Suppliers/Vendors, Service Providers, IT Hardware and Software OEMs engaged in the Indian Power Supply System.

### **2.4 Scope:**

### 2.4.1 Control Systems for System Operation and Operation Management.

- a) Grid Control and Management Systems,
- b) Power Plant Control Systems,
- c) Central Systems used to monitor and control of distributed generation and loads e.g. virtual power plants, storage management, central control rooms for hydroelectric plants, photovoltaic/wind power installations,
- d) Systems for fault management and work force management,
- e) Metering and measurement management systems,
- f) Data archiving systems,
- g) Parameterisation, configuration and programming systems,
- h) Supporting systems required for operation of the above mentioned systems,

### 2.4.2 Communication System.

- a) Routers switches and firewalls,
- b) Communication technology-related network components,
- c) Wireless digital systems.
- d) Control Centre to Control Centre Communications for data exchange on ICCP. (IEC 61850/60850-5/TASE.2/)

### 2.4.3 Secondary, Automation and Tele control technologies

- a) Control and Automation components,
- b) Control and field devices,
- c) Tele control devices,
- d) Programmable logic controllers / Remote Terminal Units, including digital sensor and actuators elements.
- e) Protection devices,
- f) Safety components,
- g) Digital measurement and metering installations,
- h) Synchronisation devices,
- i) Excitation Systems,

### 3.0 Definition of Terms:

- 1. **Access Management**: shall mean set of policies and procedures of the Responsible Entity for allowing Personnel, devices and IoT to securely perform a broad range of operational, maintenance, and asset management tasks either on site or remotely as laid down in Clause 5.2.5 of IS 16335.
- 2. **Accreditation:** shall mean the process of verifying that an organisation is capable of conducting the tests and assessments against a product/process that are required to be certified.



- 3. **Accreditation Body:** shall mean an organisation that has been accredited to verify the credentials and capabilities of the organisations that wish to become a certification body.
- 4. **Act:** shall mean the Information Technology Act, 2000 (21 of 2000)
- 5. **Asset**: shall mean anything that has value to the organization.
- 6. **Certification:** shall mean the process of verifying that a product has been manufactured in conformance with a set of predefined standards and/or regulations by an organisation, that is accredited to conduct the certification process
- 7. **Certification Body:** shall mean an organisation that has been accredited by an accreditation body to certify products / process against a certification scheme.
- 8. **Certification Scheme:** shall mean the processes, paperwork, tools, and documentation that define how a product or manufacturer is certified
- 9. **Chief Information Security Officer:** shall means the designated employee of Senior management level directly reporting to Managing Director/Chief Executive Officer/Secretary of the Responsible Entity, having knowledge of Information Security and related issues, responsible for cyber security efforts and initiatives including planning, developing, maintaining, reviewing and implementation of Information Security Policies
- 10. **Critical Assets:** shall mean the facilities, systems and equipment which, if destroyed, degraded or otherwise declared unavailable, would affect the reliability or operability of the Power Supply System.
- 11. **Critical System:** shall mean cyber assets essential to the reliable operation of critical asset. Critical System consists of those cyber assets that have at least one of the following characteristics:
  - a) The cyber asset uses a routable protocol to communicate outside the electronic security perimeter.
  - b) The cyber asset uses a routable protocol within a control centre.
  - c) The cyber asset is dial-up accessible.
- 12. **Critical Information Infrastructure:** shall mean Critical Information Infrastructure as defined in explanation of sub-section (1) of Section 70 of the Act.
- 13. **Cyber Assets**: shall mean the programmable electronic devices, including the hardware, software and data in those devices that are connected over a network, such as LAN, WAN and HAN.
- 14. **Cyber Crisis Management Plan:** shall mean a framework for dealing with cyber related incidents for a coordinated, multi-disciplinary and broad-based approach for rapid identification, information exchange, swift response and remedial actions to mitigate and recover from malicious cyber related incidents impacting critical processes.
- 15. **Cyber Security Breach**: shall mean any cyber incident or cyber security violation that results in unauthorized or illegitimate access or use by a person as well as an entity, of data, applications, services, networks and/or devices through bypass of the underlying cyber security protocols, policies and mechanisms resulting in the compromise of the confidentiality, integrity or availability of data/information maintained in a computer resource or cyber asset.
- 16. **Cyber Security Incident:** shall mean any real or suspected adverse cyber security event that violates, explicitly or implicitly, cyber security policy of Responsible Entity resulting in unauthorized access, denial of service or disruption, unauthorized use of computer resource for processing or storage of information or changes to data or information



- without authorization, leading to harm to the power grid or its critical sub-sectoral elements Generation, Transmission and Distribution.
- 17. **Cyber Security Policy:** shall mean documented set of business rules and processes for protecting information, computer resources, networks, devices, Industrial Control Systems and other OT resources.
- 18. **Electronic Security Perimeter:** shall mean the logical border surrounding a network to which the Cyber Systems of Power Supply System are connected using a routable protocol.
- 19. **Information Security Division:** shall mean a division accountable for cyber security and protection of the Critical System of the Responsible Entity.
- 20. **Protected System:** shall mean any computer, computer system or computer network of the Responsible Entity notified under section 70 of the Act, in the official gazette by appropriate Government.
- 21. **Security Architecture:** shall mean a framework and guidance to implement and operate a system using the appropriate security controls with the goal to maintain the system's quality attributes like confidentiality, integrity, availability, accountability and assurance.
- 22. **Vulnerability:** shall mean intrinsic properties of something resulting in susceptibility to a risk source that can lead to an event with a consequence
- 23. **Vulnerability Assessment:** shall mean a process of identifying and quantifying vulnerabilities

#### 4.0 Standards

Reference	Description
ISO/IEC 15408	Common Criteria Certification Standard
ISO/IEC 17011	General requirements for accreditation bodies accrediting conformity assessment bodies
ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
ISO/IEC 21827	Systems Security Engineering - Capability Maturity Model (SSE-CMM)
ISO/IEC 24748-1	Systems and software engineering — Life cycle management — Part 1: Guidelines for life cycle management.
ISO 27001/2	Information Security Management
ISO/ IEC 27019	Information technology — Security techniques — Information Security controls for the energy utility industry
ISO/IEC 61508	Functional Safety of Electrical / Electronic / Programmable Electronic Safety-related Systems
IEC 61850	Communication networks and systems for power utility automation
IEC 62351	Standards for Securing Power System Communications
IEC 62443	Cyber Security for Industrial Control Systems
IS 16335	Power Control Systems – Security Requirements.

#### 5.0 Abbreviations

ADI	oreviations	Description
a)	BES	Bulk Electric System



b) CDAC Centre for Development of Advanced Computing

c) CEA Central Electricity Authority

d) CERC Central Electricity Regulatory Commissione) CERT Computer Emergency Response Team

f) CERT-In Indian Computer Emergency Response Team

g) CII Critical Information Infrastructure h) CISO Chief Information Security Officer

i) CSK Cyber Swachhta Kendra
 j) COTS Commercial off-the Shelf
 k) ESP Electronic Security perimeter
 l) ICS Industrial Control Systems

m) ICT Information and Communications Technology
 n) IEC International Electro Technical Commission
 o) ISAC Information Sharing and Analysis Centre

p) ISD Information Security Division

q) ISO International Organization for Standardizationr) ISMS Information Security Management System

s) IT Information Technology t) FAT Factory Acceptance Test

u) NABL National Accreditation Board for Testing and Calibration Laboratories

v) NCIIPC National Critical Information Infrastructure Protection Centre

w) NLDC
 x) NPTI
 y) NSCS
 DEM
 National Load Dispatch Centre
 National Power Training Institute
 National Security Council Secretariat
 Description or Dispatch Centre
 National Power Training Institute
 National Security Council Secretariat
 Driginal Equipment Manufacturer

aa) OT Operational Technology

bb) RLDC Regional Load Dispatch Centres

cc) SAT Site Acceptance Test

dd) SERC State Electricity Regulatory Commission

ee) SCADA Supervisory Control and Data Acquisition Systems ff) SIEM Security Information and Event Management

gg) SLA Service Level Agreement
hh) SLDC State Load Dispatch Centre
ii) QCI Quality Council of India



#### CEA (Cyber Security in Power Sector) Guidelines, 2021

#### Article 1. Cyber Security Policy.

# a. Cardinal Principles: The Responsible entity will strictly adhere to following cardinal principles while framing cyber security policy:

- i. There is hard isolation of their OT Systems from any internet facing IT system.
- ii. May keep only one of their IT systems with internet facing at any of their site/location if required which is isolated from all OT zones and kept in a separate room under the security and control of CISO.
- iii. Downloading/Uploading of any data/information from their internet facing IT system is done only through an identifiable whitelisted device followed by scanning of both for any vulnerability/malware as per the SOP laid down and for all such activities digital logs are maintained and retained under the custody of CISO for at least 6 months. The log shall be readily to carry out the forensic analysis if asked by investigation agency.
- iv. List of whitelisted IP addresses for each firewall is maintained by CISO and each firewall is configured for allowing communication with the whitelisted IP addresses only.
- v. Communication between OT equipment/systems is done through the secure channel preferably of POWERTEL through the fibre optic cable. Security configuration of the communication channel is also to be ensured.
- vi. All ICT based equipment/system deployed in infrastructure/system mandatorily CII are sourced from the list of the "Trusted Sources" as and when drawn by MoP/CEA.
- b. The Responsible Entity shall be ISO/IEC 27001 certified (including sector specific controls as per ISO/IEC 27019).
- c. The Responsible Entity shall have a Cyber Security Policy drawn upon the guidelines issued by NCIIPC.
- d. The Responsible Entity shall ensure annual review of their Cyber Security Policy by subject matter expert and changes shall be made therein only after obtaining the due approval from Board of Directors.
- e. The process of Access Management for all Cyber Assets owned or under control of the Responsible Entity shall be detailed in the Cyber Security Policy.
- f. The Cyber Security Policy shall leverage state-of-art cyber security technologies and relevant processes at multiple layers to mitigate the cyber security risks.
- g. The Responsible Entity shall be solely responsible to get Cyber Security Policy implemented through its Information Security Division (ISD).
- h. The CISO shall record the reason(s) for exemption required, if any, in case, unable to comply with any of the provision(s) of the Cyber Security Policy. Any exception shall be allowed only after an approval of provisions of compensatory control(s) to mitigate residual cyber security risks.



- i. The CISO shall record the exemptions sought in statement of applicability controls, while getting the ISO 27001 certified. All exemptions and its justification need to be in conformance with Cyber Security Policy of the Responsible Entity.
- j. The Responsible Entity shall allocate sufficient Annual budget for enhancing cyber security posture, enhanced year over year.
- k. The Responsible Entity shall work in collaboration with other Industry Stakeholders as well as Academia to promote R&D activity in the domain of cyber security.
- 1. The Responsible Entity shall ensure that cyber security issues are taken up as agenda items in their Board meetings once in every three months.

#### Article 2 Appointment of CISO.

- a) The Responsible Entity shall mandatorily appoint a CISO and shall confirm to qualification, if any, **laid** by Quality Council of India (QCI). In absence, the work of CISO shall be looked upon by Alternate CISO. In case qualification for appointment of Alternate CISO has been relaxed for reasons recorded thereof, Alternate CISO has to mandatorily acquire the minimum required cyber security skill sets within six months from the date of his appointment.
- b) The Responsible Entity shall regularly update details of CISO and Alternate CISO, with the Sectoral CERT, as well as on ISAC-Power Portal.
- c) Roles and Responsibility of CISOs shall be as laid by CERT-In and ring-fenced to ensure cyber security of the Cyber Assets of the Responsible Entity.

#### **Article 3: Identification of Critical Information Infrastructure (CII).**

- a) The Responsible Entity shall submit to NCIIPC through Sectoral CERT, details of Cyber Assets which uses a routable protocol to communicate outside the Electronic Security Perimeter drawn by the Responsible Entity or a routable protocol within a control centre and dial-up accessible Cyber Assets, within 30 days from the date of their commissioning in the System.
- b) The Responsible Entity shall submit details of Critical Business Processes and underlying information infrastructure along with mapped impact and Risk Profile to NCIIPC and shall get their CIIs identified in consultation with NCIIPC. The process of the notification/declaration by Appropriate Government shall follow thereafter.
- c) The Responsible Entity shall review their declared/notified CIIs at least once a year to examine changes if any in the functional dependencies, protocols and technologies or upon any change in security architecture. The Responsible Entity shall review their declared/notified CIIs once in every 6 months, in case if NCIIPC has directed them to constitute an Information Security Steering Committee.
- d) The Responsible Entity shall ensure that all cyber assets of their identified/notified CIIs are recorded in the asset register and considered for risk assessment as well as for finalization of controls in statement of applicability.

#### **Article 4. Electronic Security Perimeter**

a) The Responsible Entity shall identify and document the Electronic Security Perimeter(s) and all Access Points to the perimeter(s).



- b) The Responsible Entity shall follow procedure of identifying "Electronic Security Perimeter" in case of distributed and/or hybrid information infrastructure, as per IEC 62443 / IS16335 (as amended from time to time).
- c) The Responsible Entity shall ensure that every Critical System resides within an Electronic Security Perimeter.
- d) The Responsible Entity shall perform a cyber-Vulnerability Assessment of each electronic Access Points to the Electronic Security Perimeter(s) at least once in every 6 (six) months and/or after any change in Security Architecture.
- e) The Responsible Entity shall ensure that all critical, high and medium vulnerabilities identified as a result of cyber Vulnerability Assessment shall be closed and verified for the effective closure.

#### Article 5. Cyber Security Requirements

- a) The Responsible Entity shall have an Information Security Division (ISD), headed by CISO.
- b) The Responsible Entity shall ensure that the ISD must be functional on 24x7x365 basis and is manned by sufficient numbers of Engineers having valid certificate of successful completion of course on cyber security of Power Sector from the Training Institutes designated by CEA.
- c) The Responsible Entity shall ensure that ISD
  - 1) has on-boarded Cyber Swachhta Kendra(CSK) of CERT-In, if they have public IPs
  - 2) has timely acted upon the advisories, guidelines and directive of NCIIPC, CSK, CERT-In and Sectoral CERTs,
  - 3) has deployed an Intrusion Detection System and Intrusion Prevention System capable of identifying behavioural anomaly in both IT as well as OT Systems.
  - 4) shares reports on incident response and targeted malware samples with CERT-In,
  - 5) updates the firmware/software with the digitally signed OEM validated patches only.
  - 6) enables only those ports and services that are required for normal operations. In case of any emergency the procedure as laid in Access management be followed.
  - 7) maintains firewall logs for the last 6 months duration. Firewall logs shall be analysed and all critical and high severity comments shall be addressed for effective closure.
  - 8) retains document of FAT, SAT test results and report/ certificate of cyber tests carried out for compliance of Government Orders and Cyber Security Audit.\*
  - 9) maintains all cyber logs and cyber forensic records of any incident for at least\*\* 90 days.
    - \* FAT, SAT must include comprehensive cyber security tests of the component/equipment/system to be delivered/delivered at site.
    - \*\* 90 days from date of the commissioning of the system/recovery from any incident, whichever is later.
- d) The Responsible Entity shall routinely audit and test security properties of the Critical System and must act upon, in case if any new vulnerabilities is identified through testing or by the equipment manufacturer.



- e) The Responsible Entity shall design a secure architecture for control system appropriate for their process control environment\*.
- f) All State Load Dispatch Centres(SLDCs) shall comply with the directions issued by the National Load Dispatch Centre(NLDC) as well as Regional Load Dispatch Centres(RLDCs) U/s 29 (1) of the Electricity Act, 2003 to ensure stability and cyber security of grid operation and achieve efficiency in the grid operation. In case of any non-compliance, the Head of SLDC shall be responsible and shall be liable for Penalty as per the provision of CERC/SERC.

\*There are so many different types of systems in existence and so many possible solutions, it is important that the selection process ensures that the level of protection is commensurate with the business risk and the Responsible Entity shall not rely on one single security measure for its defence. (Reference IEC/TR62351-10 Edition1.0 2012-10 Power systems management and associated information exchange –Data and communications security – Part 10: Security architecture guidelines).

#### Article 6 Cyber Risk Assessment and Mitigation Plan

- a) The Responsible Entity shall document in their Cyber Security Policy a Cyber Risk Assessment and Mitigation Plans drawn upon the best practises being followed in the Power Sector, and the same shall be approved by Board of Directors.
- b) The Cyber Risk Assessment and Mitigation Plans shall clearly define the matrix for assessing the cyber risk of both IT and OT environment and risk acceptance criteria.
- c) The Cyber Risk Assessment Plan shall be capable to demonstrate that repeated cyber security risk assessment delivers consistent, valid and comparable results.
- d) The review of cyber risk assessment shall be carried out at least once in a Quarter. The actionable of risk treatment and mitigation shall be tracked in this review for their effectiveness.
- e) The CISO shall be responsible for implementation and regular review, on the basis of internal and external feedbacks, of the Cyber Risk Assessment and Mitigation Plans.

#### Article 7 Phasing out of Legacy System

- a) As the life cycle of the Power System Equipment/System is longer than that of IT Systems deployed therein, the Responsible Entity shall ensure that all IT technologies in the Power System Equipment/System should have the ability to be upgraded.
- b) The Responsible Entity shall ensure that the Information Security Division shall draw the list of all communicable equipments/systems nearing end life or are left without support from OEM. Thereafter CISO shall identify equipment/systems to be phased out from the list drawn, firm up their replacement plan and put up the replacement plan for approval before the Board of Directors.
- c) The CISO shall ensure that till equipments/systems nearing end life or left without support from OEM are not replaced, their cyber security is hardened and ensured through additional controls provisioned in consultation with the OEM or alternate Supplier(s)\*.
  - \*e.g. Use of CDAC developed AppSamvid and whitelisting of applications installed may be explored across all legacy systems.
- d) The Responsible Entity shall document in their Cyber Security Policy a Standard Operating Procedure for safe and secure disposal of outlived or legacy devices.



#### Article 8. Cyber Security Training.

- a) The Responsible Entity shall establish, document, implement, and maintain an annual cyber security training program for personnel having authorized cyber or authorized physical access (unescorted or escorted) to their Critical Systems.
- b) The Responsible Entity shall review annually their cyber security training program and shall update it whenever necessary. Annual Review shall record evaluation of the effectiveness of the trainings held.
- c) The Responsible Entity shall ensure that Cyber Security training program designed for their IT as well as OT O&M Personnel must include following topics and as per their functional requirements and security concerns additional topics shall be added:
  - 1) User authentication and authorization.
  - 2) Cyber Security and Protection mechanisms of IT/OT/ICS Systems.
  - 3) Introduction to various standards i.e. ISO/IEC:15408, ISO/IEC:24748-1, ISO: 27001, ISO: 27002, ISO 27019, IS 16335, IEC/ISO:62443.
  - 4) Training on implementation of ISO/IEC 27001 and awareness on IEC 62443.
  - 5) Vulnerability Assessment in the Critical System.
  - 6) Monitoring and preserving of electronic logs of access of Critical Assets.
  - 7) Detecting cyber-attacks on SCADA and ICS systems
  - 8) The handling of Critical System during cyber crisis.
  - 9) Action plans and procedures to recover or re-establish normal functioning of Critical Assets and access thereto following a Cyber Security Incident.
  - 10) Hands on SCADA operation at any of the Regional Load Dispatch Centre.
  - 11) Handling of risks involved in the procurement of COTS Products.
- d) All Personnel engaged in O&M of IT & OT Systems shall mandatorily undergo courses on cyber security of Power Sector from any of the training institute designated by CEA, immediately within 90 days from the notification of CEA Guidelines on Cyber Security in Power Sector.
- e) The Responsible Entity shall ensure that none of their newly hired or the current Personnel have access to the Critical System, prior to the satisfactory completion of cyber security training programme from the Training Institutes designated in India, except in specified circumstances such as cyber crisis or an emergency.
- f) NPTI in consultation with CEA shall identify and design domain specific courses on Cyber Security for different target groups. The "Governing Board for PSO Training and Certification" shall approve the content, duration etc of these courses and shall review it Annually. NPTI shall conduct these courses at all of their branches on regular basis and shall maintain the list of the Participants successfully completing the course.

#### Article 9 Cyber Supply Chain Risk Management

- a) The Responsible Entity shall ensure that, as and when Ministry of Power, Government of India notifies the Model Contractual Clauses on cyber security, these clauses are included in their every Bid invited for procurement of any ICT based components/equipments/System to be used for Power System.
- b) The Responsible Entity shall ensure that all the Communicable Intelligent Equipments and the Service Level Agreements (SLAs) for their Critical Systems shall be sourced from the list of the "Trusted Sources" as and when drawn by MoP/CEA.



- c) The Responsible Entity shall ensure that, in case, for the any Communicable Intelligent Devices, if no Trusted Source has been identified, then the successful bidder in compliance with the provisions made in MoP order dated 2.7.2020 and any other relevant MoP order has got the product cyber tested for any kind of embedded malware/Trojan/cyber threat and for adherence to Indian Standards at the designated lab.
- d) The Responsible Entity shall ensure that the essential cyber security tests are carried out successfully during FAT, SAT as detailed in **Annexure A.** The equipment/System besides for functionality shall also be tested in the factory for vulnerabilities, design flaws, parts being counterfeit or tainted, so as to minimize problems during on-site-testing and installation. Cyber Security Conformance Testing are to be carried out in the designated Lab as listed in **Annexure-I of MoP Order No. 12/13/2020-T&R dt. 8th June, 2021(Order at Annexure-B).**
- e) The Responsible Entity shall ensure that the Equipment/System supplied by the successful bidder shall accompany with a certificate<sup>\$, #</sup> obtained by OEM from a certification body accredited to assess devices and process for conformances to IEC 62443-4 standards during design and manufacture. The Responsible Entity shall accept the certificate submitted along with the supplied Equipment/System only if it's in line with the Testing Protocol as notified by Ministry of Power, Government of India, from time to time.
- f) The Responsible Entity in compliance to the requirement of Article 9(e) shall also accept, till the setting up of an adequate certification facility in the India, a digitally signed self-declaration of conformance to the IEC 62443-4 standards during design and manufacture of the equipment/system, if submitted by the OEM.
- g) The Responsible Entity shall dispose all unserviceable or obsolete Communicable Intelligent Devices as per the procedure laid in their Cyber Risk Assessment and Mitigation Plans which shall be in line with the prevailing best practices.
- \$ The National & International certification may be specified in the tender for critical systems/sub-systems being procured by the Responsible Entity.

#### # Certification Schemes:

Embedded Device Security Assurance Certification is for an individual product, System Security Assurance Certification is for a set of products in a system (possibly from different vendors)

**Security Development Lifecycle Assurance Certification** is for the development processes that a manufacturer uses for developing products.

#### Article 10 Cyber Security Incident Report and Response Plan

- a) The CISO of the Responsible Entity shall report in the formats prescribed by CERT-In, all Cyber Security Incidents, classified as reportable events.
- b) Root cause analysis for all reportable events shall be carried out and corrective action taken, so as to ensure that any re-occurrence of such event can be managed with ease.
- c) The Responsible Entity shall mandatorily define in their Cyber Security Policy, criteria(s) identified on the basis of impact analysis, for declaring the occurrence of



- Cyber Security Incident(s) as a Cyber Crisis in the System owned or controlled by them.
- d) The Responsible Entity shall mandatorily designate an Officer along with his/her standby by name and designation and empower them to declare an occurrence of the incident(s) as "Cyber Crisis". The contact details of these Officers shall be updated in the C-CMP within 15 days of changes if any due to transfer or superannuation etc.
- e) The CISO shall ensure that during any Cyber Security Incident, ISD monitors and minutely records every details of cyber security events and incidents in both IT as well as the OT System owned or controlled by the Responsible Entity.
- f) The CISO shall ensure that each cyber incident is handled strictly as per Cyber Security Incident Response Plan detailed in the latest C-CMP approved by the Board of Directors.
- g) The Responsible Entity shall ensure that the efficacy of the Cyber Security Incident Response Plan is tested annually through mock drill(s) carried out, if feasible, as simulation exercise(s) or as table top exercise(s) with wider participation of their employees, in consultation with CERT-In and sectoral CERT. In case if any shortcoming is observed in the Cyber Security Incident Response Plan suitable changes shall be made in it.
- h) The Responsible Entity shall ensure that the CISO compiles details of incident detection, incident handling, learnings from each incident and damage claims made if any and shall report to CERT-In as well as upload information on ISAC-Power Portal.

#### **Article 11 Cyber Crisis Management Plan(C-CMP)**

- a) The Responsible Entity shall prepare a Cyber Crisis Management Plan and submit to their sectoral-CERT for review with intimation to Ministry of Power/CISO-MoP. Responsible Entity shall update their C-CMP on the basis of comments made by sectoral-CERT and then submit for vetting to CERT-In. The C-CMP shall be updated once again to include the observations made by CERT-In before seeking approval of Board of Directors for implementation of C-CMP.
- b) The Responsible Entity shall ensure that the C-CMP is reviewed at least annually. The CISO shall ensure that all changes are made in C-CMP only with the due approval of Board of Directors and the changes made in C-CMP have been communicated through a verifiable means to all the concerned Personnel of the Responsible Entity.
- c) The CISOs shall be the custodian of all the cyber security related documents including Cyber Crisis Management Plan, Risk Treatment Plan, Statement of Applicability of controls, and compliance to regulator's requirement.
- d) The CISO shall be accountable for ensuring enforcement of C-CMP by Information Security Division of the Responsible Entity, during a cyber-crisis, as and when declared by the designated Officer. (refer Article 10(d))

#### Article 12: Sabotage Reporting%

- a) The Responsible Entity shall incorporate procedure for identifying and reporting of sabotage in their Cyber Security Policy within 30 days from issue of the Guidelines, or grant of licence under the appropriate legal provisions to the Responsible Entity.
- b) The CISO shall be held liable for non-reporting of identified sabotage(s) as per procedure laid for identifying and reporting of sabotage in the Cyber Security Policy of the Responsible Entity.



- c) The CISO shall prepare a detailed report on disturbances or unusual occurrences, identified, suspected or determined to be caused by sabotage in the Critical System of the Responsible Entity, and shall submit the report to the Sectoral CERT as well as to CERT-In within 24 hours of its occurrence.
- d) The CISO shall submit to NCIIPC within 24 hours of occurrence the report on every sabotage classified as cyber incidents(s) on "Protected System".
- e) The CISO upon occurrence on every sabotage shall take custody of all log records as well as digital forensic records of affected Cyber Assets, Intrusion Detection System, Intrusion Protection System, SIEM and shall preserve them for at least 90 days and shall make them available as and when called upon for investigation by the concerned Agencies.

<sup>%</sup>Disturbances or unusual occurrences, suspected or determined to be caused by sabotage.

Sabotage e.g. can be a forced intrusion in un-manned/manned facility and taking control of operation of Critical System through a communicating device.

#### **Article 13 Security and Testing of Cyber Assets**

- a) The Responsible Entity shall ensure security of all in-service phase as well as standby Cyber Assets through regular firmware/Software updates and patching, Vulnerability management, Penetration testing (of combined installations), securing configuration, supplementing security controls. CISO shall maintain details of update version of each firmware and software and their certification if received from OEMs.
- b) The Responsible Entity shall carry out regularly Vulnerability Assessment of all Cyber Assets owned or under their control. If a Cyber Asset is found vulnerable to any exploits or upon any patch updates or major configuration changes, then further Penetration Testing may be carried out offline or in a suitably configured laboratory test-bed to determine other vulnerabilities that may have not been identified so far.
- c) The Responsible Entity shall specify security requirement and evaluation criteria during each phase of their procurement Process.
- d) The Responsible Entity shall ensure that all Cyber Assets being procured shall conform to the type tests as mentioned in the specification for type testing listed in the bid document. Type test reports of tests conducted in NABL accredited Labs or internationally accredited labs (with in last 5 years from the date of bid opening) shall be mandated to be submitted along with bid. In case, the submitted Type Test reports are not as per specification, the re-tests shall be conducted without any cost implication to the Responsible Entity.
- e) The Responsible Entity shall ensure that all Communicable devices are tested for communication protocol as per the ISO/IEC/IS standards listed in MoP Order No. 12/13/2020-T&R dated 8<sup>th</sup> June, 2021(Annexure-B).
- f) The Responsible Entity shall ensure that all Critical Systems designed with Open Source Software are adequately cyber secured.
- g) The Responsible Entity as a best practise upon any incidence of Cyber Security Breach shall carry out cyber security tests at any lab designated for cyber testing by Ministry of Power. These tests shall be similar to Pre Commissioning Security Test and those essential for carrying out Post Incident Forensics Analysis.

#### **Article 14 Cyber Security Audit**



- a) The Responsible Entity shall implement Information Security Management System (ISMS) covering all its Critical Systems.
- b) The Responsible Entity shall through a CERT-In Empanelled Cyber Security OT Auditor shall get their IT as well as OT System audited at least once in every 6 (six) months and shall close all critical and high vulnerabilities within a period of one month and medium as well as low non-conformity before the next audit. Effective closure of all non-conformities shall be verified during the next audit.
- c) The Cyber Security Audit shall be as per ISO/IEC 27001 along with sector specific standard ISO/IEC 27019, IS 16335 and other guidelines issued by appropriate Authority if any. These mentioned standards shall be current with all amendments if any and in case if any standard is superseded, the new standard shall be applicable. CISO shall ensure immediate closure of non-conformance, based on the criticality and by means all non-conformances are to be closed before the next audit.
- d) The Responsible Entity shall ensure that CISO has all the required systems and documents in place, as mandated by NSCS for base line cyber security audit.



#### **FAT & SAT**

- 1. During FAT stage, the customer has to verify all types test reports / certificates including Communication protocol and security conformance tests of the devices offered for FAT.
- 2. FAT of SCADA involves testing as a whole system in the integrated scale down set up. For SCADA, Indian standard IS 15953: 2011 "SCADA System for Power System Applications" provides definition and guidelines for the specification, performance analysis and application of SCADA systems for use in electrical utilities (for transmission & Distribution) including guidance on Tests and inspections.
- 3. The SAT will be done at customer site as per the SAT document mutually agreed by buyer and supplier. For SAT also, guidance from IS 15953: 2011need to be applied.
- 4. IEC 61850-10-3 Communication Networks and Systems For Power Utility Automation-Functional testing of IEC 61850 systems (in draft stage - CDTR) covers testing of applications within substations covering
  - a. A methodical approach to the verification and validation of a substation solution
  - b. The use of IEC 61850 resources for testing in Edition 2.1
  - c. Recommended testing practices for different use cases
  - d. Definition of the process for testing of IEC 61850 based devices and systems using communications instead of hard wired system interfaces (ex. GOOSE and SV instead of hardwired interfaces)
  - e. Use cases related to protection and control functions verification and testing.

This standard may be used as a guidelines for FAT & SAT for Substation Automation System (SAS) based on IEC 61850.



### Annexure - B

#### Annexure – 1

# List of designated laboratories for cyber security conformance testing

Table -A. Field Equipment /Operational Technology (OT)

Sl. No.	Equipment	Communication Protocol Conformance Standards	Protocol Security Conformance Standards	Designated Laboratories
1	Remote Terminal Units (RTUs) & PLCs with IEC communications protocols	IEC 60870-5 -101 / IEC 60870-5 -104 (Test Details Annexure 2)	IEC 60870-5-7 Security extension & IEC 62351 series (specifically IEC 62351-100 parts 1 & 3) ( Test Details Annexure-2	Central Power Research Institute (CPRI), Prof Sir C V Raman Road, Sadashivanagar P O, Bengaluru – 560080, Karnataka
2	Intelligent Electronic Equipment / Numerical Protection Relays / Bay Control Units / Bay Protection Units, Gateways, Transformer Tap controller/ changer, etc. with IEC 61850 communication protocol	IEC 61850 – 5 to IEC 61850 – 10  ( Test Details Annexure 2)		CPRI
3	Smart meters with IEC 62056 communication protocols	IEC 62056 series / DLMS & IS 15959 series and IS 16444 series (Test details Annexure 2)	IEC 62056 series / DLMS & IS 15959 series and IS 16444 series (Test Details Annexure 2)	1. CPRI 2. Electrical Research and Development Association (ERDA), ERDA Road, GIDC, Makarpura, Vadodara - 390 010 Gujarat 3. Yadav Measurements Pvt. Ltd. (YMPL) 373-375, RIICO Bhamashah Industrial Area Kaladwas 313003 Udaipur – Rajasthan



# Information Technology (IT) Equipment (Main / Backup / Disaster recovery (DR) Control Centre / Substation control centre IT equipment)

All IT products procured /supplied shall have a valid Certificate of Common Criteria as per ISO/IEC 15408 issued by signatories of the Common Criteria Recognition Agreement (CCRA) (www.commoncriteriaportal.org).

Import/procurement/supplied from vendors sourcing from prior reference countries, the Certificate for Common Criteria shall be from Government Laboratories in India according to the IC3S scheme operated by Ministry of Electronics and Information Technology, which is a signatory to CCRA.

https://www.commoncriteria-india.gov.in/



#### Details of tests for various identified products

#### Remote Terminal Units (RTUs) (Sl. No. 1 of Table – A of Annexure – 1)

#### **Test protocol:**

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

#### Reference standards

- 1) IEC 60870-5-101 & IEC 60870-5-104 as applicable
- 2) IEC 60870-5-7 Telecontrol equipment and systems Part 5-7: Transmission protocols Security extensions to IEC 60870-5-101 and IEC 60870-5-104 protocols (applying IEC 62351)
- 3) IEC 62351-100-1 & IEC 62351-100-3 and other cross referenced standards.

#### **Test cases**

#### Extract from standard (IEC 62351-100-1)

The conformance test cases are divided into four clauses:

- Clause 5: Verification of configuration parameters. This clause contains the configuration parameters affecting the message contents and/or the protocol behaviour.
- Clause 6: Verification of communication. The goal of this clause is to verify that Device Under Test
   (DUT) is able to implement the security extension messages as described in IEC TS 60870-5-7.
- Clause 7: Verification of procedures. The goal of this clause is to verify that DUT is able to execute
  the security extension procedures as described in IEC TS 62351-5.
- Clause 8: Test result chart. This clause contains the results of the test cases listed in Clauses 6 and
   7 for each supported value of the configuration parameters listed in Clause 5.

The test cases are organized in tables. They are numbered; their numbering syntax is: Subclause number (where the Table is located) + test case number.

In the column 'reference' each test case has a direct reference to IEC TS 62351-5 or IEC TS 60870-5-7 where the clause under test is defined.

Test cases are mandatory depending on the description in the column 'Required'. The following situations are possible:

M= Mandatory test case. The test is referencing a clause that is mandatory in IEC TS 62351-5 or IEC TS 60870-5-7.

Protocol Information Conformance Statement (PICS) x, x = M and atory test case if the functionality is enabled in the PICS (by marking the applicable check box), with a reference to the section number of the PICS (x,x).



#### Conformance testing of security extension procedures

The security extension procedures can be summarized as follows:

- User management
- Update key maintenance
- Session key maintenance
- Challenge/Reply authentication
- Aggressive Mode authentication

#### Extract from standard (IEC 62351-100-3)

IEC 62351-3 defines the requirements related to the authentication/encryption protocol, procedures and methods to be implemented at TCP/IP (transport) level.

The conformance test cases are divided into three clauses:

- Clause 5: Verification of configuration parameters. This clause contains the parameters specified by the standards referencing IEC 62351-3 (see IEC 62351-3:2014/AMD1:2018, Clause 7) and affecting the protocol behaviour.
- Clause 6: Verification of IEC 62351-3 requirements. The goal of this clause is to verify that DUT is conformant to the requirements of the IEC 62351-3.
- Clause 7: Test result chart. This clause contains the results of the test cases listed in Clause 6 for each supported value of the configuration parameters listed in Clause 5.

The test cases are organized in tables. They are numbered, their numbering syntax is: Subclause number (where the table is located) + test case number.

In the column 'Reference' each test case has a direct reference to IEC 62351-3 where the clause under test is defined. PICS or Protocol Implementation eXtra Information for Testing (PIXIT) could be found in the "Reference" column for some test cases whenever the execution of the test case shall take into account specific parameter values declared in the PICS or PIXIT of the DUT.

Test cases are mandatory depending on the description in the column 'Required'. The following situations are possible:

M = Mandatory test case. The test is referencing to a clause that is mandatory in IEC 62351-3.

**PICS** 

or

PIXIT = Mandatory test case if the functionality is enabled in the PICS or PIXIT by marking the applicable check box or declaring the applicable value.



#### Intelligent Electronic Devices (IEDs) (Sl. No. 2 of Table – A of Annexure – 1)

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

#### Reference standards

IEC 61850 series

Specifically IEC 61850-5, IEC 61850-6, IEC 61850-7, IEC 61850-8, IEC 61850-9 and IEC 61850-10

#### **Test cases**

Communication protocol conformance as per IEC 61850 -10. This part of standard defines methods and abstract test cases for conformance testing of client, server and sampled values devices used in power utility automation systems, the methods and abstract test cases for conformance testing of engineering tools used in power utility automation systems, and the metrics to be measured within devices according to the requirements defined in IEC 61850-5. Further this part of standard specifies standard techniques for testing of conformance of client, server and sampled value devices and engineering tools, as well as specific measurement techniques to be applied when declaring performance parameters. The use of these techniques will enhance the ability of the system integrator to integrate IEDs easily, operate IEDs correctly, and support the applications as intended.

#### Smart Meters (Sl. No. 3 of Table – A of Annexure – 1)

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

IEC 62056 series of standards (Electricity metering data exchange – The DLMS/COSEM suite) specifies details of communication protocol requirements, conformance testing and security requirements. The Part 5-3 (DLMS/COSEM application layer) specifies the DLMS/COSEM application layer in terms of structure, services and protocols for DLMS/COSEM clients and servers, and defines rules to specify the DLMS/COSEM communication profiles. It defines services for establishing and releasing application associations, and data communication services for accessing the methods and attributes of COSEM interface objects, defined in IEC 62056-6-2 using either logical name (LN) or short name (SN) referencing.

Clause 5 and sub clauses specifies security requirements. It cover security concepts, Identification and authentication, Cryptographic algorithms, Cryptographic keys – overview, Key used with symmetric key algorithms, Keys used with public key algorithms and Applying cryptographic protection.

**Note:** All above referred standards shall be latest with amendments if any at the time of submission of sample(s) for testing.



#### **Testing Criteria**

#### 1) Supply from Trusted Sources

The sample size shall be as specified by CEA as per the approved criteria for Trusted Vendors

#### 2) Supply from other than trusted vendors

The sample size shall be shall be 5% of the supply lot / ordered quantity (minimum one). The manufacturer shall submit request to the Nodal agency along with vendor's / manufacturer's certifications for supply chain management system practices and secure product development process implementations based on any one or more of standards ISO / IEC 27036, ISO / IEC 20243, IEC 62443 for verification.

After scrutiny of vendor's / manufacturer's certifications the supplier / utilities shall be asked to submit product to the designated laboratory for communication and cyber security conformance testing.

The supply lot shall stand rejected on failure to comply with the test requirements.

#### 3) Supply from prior reference countries

The utility shall obtain prior permission from the Government of India for importing the product / system from prior reference countries.

The sample size shall be shall be 10 % of the supply lot / ordered quantity (minimum one). The manufacturer shall submit request to the Nodal agency along with vendor's / manufacturer's certifications for supply chain management system practices and secure product development process implementations based on any one or more of standards ISO / IEC 27036, ISO / IEC 20243, IEC 62443 for verification.

After scrutiny of vendor's / manufacturer's certifications the supplier / utilities shall be asked to submit product to the designated Government / Government controlled Autonomous laboratory for type tests (Annexure -4) and communication & cyber security conformance testing.

The supply lot shall stand rejected on failure to comply with the test requirements.



#### **Type Tests**

Products imported from prior reference countries shall also undergo type testing as per following standards in addition to communication protocol and security conformance testing at the designated Government / Government controlled Autonomous laboratory:

#### Type test standards for RTUs

- 1. IEC 60870-1-2:1989 Telecontrol equipment and systems. Part 1: General considerations. Section Two: Guide for specifications.
- 2. IEC 60870-2-1:1995 Telecontrol equipment and systems Part 2: Operating conditions Section 1: Power supply and electromagnetic compatibility.
- 3. EC 60870-2-2:1996 Telecontrol equipment and systems Part 2: Operating conditions Section 2: Environmental conditions (climatic, mechanical and other non-electrical influences).
- 4. IEC 60870-3:1989 Telecontrol equipment and systems. Part 3: Interfaces (electrical characteristics)

#### Type test standard for IEDs / Numerical Protection Relays / Bay controls units

1. IEC 61850-3: 2013, Ed. 2 Communication networks and systems for power utility automation – Part 3: General requirements.

#### Type test standards for Smart meters

- 1. IS 16444: 2015 AC static direct connected watthour smart meter class 1 and 2 Specification.
- 2. IS 16444 Part 2: 2017 AC static transformer operated watthour and var Hour smart meters, class 0.2 S, 0.5 S and 1.0 S: Part 2 specification transformer operated smart meters.

#### **Note:**

- 1. All above referred standards shall be latest with amendments if any at the time of submission of sample(s) for testing.
- 2. Type tests generally covers functionality, environmental, mechanical, EMI/ EMC and electrical safety related tests.



# No. 20(3)/2022-CERT-In Government of India Ministry of Electronics and Information Technology (MeitY) Indian Computer Emergency Response Team (CERT-In)

Electronics Niketan, 6 CGO Complex, New Delhi-110003

Dated: 28 April, 2022

Subject: Directions under sub-section (6) of section 70B of the Information Technology Act, 2000 relating to information security practices, procedure, prevention, response and reporting of cyber incidents for Safe & Trusted Internet.

Whereas, the Central Government in terms of the provisions of sub-section (1) of section 70B of Information Technology (IT) Act, 2000 (IT Act, 2000) has appointed "Indian Computer Emergency Response Team (CERT-In)" vide notification dated 27<sup>th</sup> October 2009 published in the official Gazette and as per provisions of sub-section (4) of section 70B of IT Act, 2000 The Indian Computer Emergency Response Team shall serve as the national agency for performing the following functions in the area of cyber security:-

- a) collection, analysis and dissemination of information on cyber incidents;
- b) forecast and alerts of cyber security incidents;
- c) emergency measures for handling cyber security incidents;
- d) coordination of cyber incidents response activities;
- e) issue guidelines, advisories, vulnerability notes and whitepapers relating to information security practices, procedures, prevention, response and reporting of cyber incidents;
- f) such other functions relating to cyber security as may be prescribed.

And whereas, "The Information Technology (The Indian Computer Emergency Response Team and Manner of performing functions and duties) Rules, 2013" were notified and published vide notification dated 16.01.2014 by the Central Government in exercise of the powers conferred by clause (zf) of sub-section (2) of section 87 read with sub-section (5) of section 70B of the IT Act, 2000.

And whereas, as per provisions of sub-section (6) of section 70B of the IT Act, 2000, CERT-In is empowered and competent to call for information and give directions to the service providers, intermediaries, data centres, body corporate and any other person for carrying out the activities enshrined in sub-section (4) of section 70B of the IT Act, 2000.

And whereas, various instances of cyber incidents and cyber security incidents have been and continue to be reported from time to time and in order to coordinate response activities as well as emergency measures with respect to cyber security incidents, the requisite information is either sometime not found available or readily not available with service providers/data centres/body corporate and the said primary information is essential to carry out the analysis, investigation and coordination as per the process of law.

And whereas, it is considered expedient in the interest of the sovereignty or integrity of India, defence of India, security of the state, friendly relations with foreign states or public order or for preventing incitement to the commission of any cognizable offence using computer resource or for handling of any cyber incident, that following directions are issued to augment and strengthen the cyber security in the country:

- (i) All service providers, intermediaries, data centres, body corporate and Government organisations shall connect to the Network Time Protocol (NTP) Server of National Informatics Centre (NIC) or National Physical Laboratory (NPL) or with NTP servers traceable to these NTP servers, for synchronisation of all their ICT systems clocks. Entities having ICT infrastructure spanning multiple geographies may also use accurate and standard time source other than NPL and NIC, however it is to be ensured that their time source shall not deviate from NPL and NIC.
- (ii) Any service provider, intermediary, data centre, body corporate and Government organisation shall mandatorily report cyber incidents as mentioned in Annexure I to CERT-In within 6 hours of noticing such incidents or being brought to notice about such incidents. The incidents can be reported to CERT-In via email (incident@cert-in.org.in), Phone (1800-11-4949) and Fax (1800-11-6969). The details regarding methods and formats of reporting cyber security incidents is also published on the website of CERT-In www.cert-in.org.in and will be updated from time to time.

- (iii) When required by order/direction of CERT-In, for the purposes of cyber incident response, protective and preventive actions related to cyber incidents, the service provider/intermediary/data centre/body corporate is mandated to take action or provide information or any such assistance to CERT-In, which may contribute towards cyber security mitigation actions and enhanced cyber security situational awareness. The order / direction may include the format of the information that is required (up to and including near real-time), and a specified timeframe in which it is required, which should be adhered to and compliance provided to CERT-In, else it would be treated as non-compliance of this direction. The service providers, intermediaries, data centres, body corporate and Government organisations shall designate a Point of Contact to interface with CERT-In. The Information relating to a Point of Contact shall be sent to CERT-In in the format specified at Annexure II and shall be updated from time to time. All communications from CERT-In seeking information and providing directions for compliance shall be sent to the said Point of Contact.
- (iv) All service providers, intermediaries, data centres, body corporate and Government organisations shall mandatorily enable logs of all their ICT systems and maintain them securely for a rolling period of 180 days and the same shall be maintained within the Indian jurisdiction. These should be provided to CERT-In along with reporting of any incident or when ordered / directed by CERT-In.
- (v) Data Centres, Virtual Private Server (VPS) providers, Cloud Service providers and Virtual Private Network Service (VPN Service) providers, shall be required to register the following accurate information which must be maintained by them for a period of 5 years or longer duration as mandated by the law after any cancellation or withdrawal of the registration as the case may be:
  - a. Validated names of subscribers/customers hiring the services
  - b. Period of hire including dates
  - c. IPs allotted to / being used by the members
  - d. Email address and IP address and time stamp used at the time of registration / on-boarding
  - e. Purpose for hiring services
  - f. Validated address and contact numbers
  - g. Ownership pattern of the subscribers / customers hiring services

(vi) The virtual asset service providers, virtual asset exchange providers and custodian wallet providers (as defined by Ministry of Finance from time to time) shall mandatorily maintain all information obtained as part of Know Your Customer (KYC) and records of financial transactions for a period of five years so as to ensure cyber security in the area of payments and financial markets for citizens while protecting their data, fundamental rights and economic freedom in view of the growth of virtual assets.

For the purpose of KYC, the Reserve Bank of India (RBI) Directions 2016 / Securities and Exchange Board of India (SEBI) circular dated April 24, 2020 / Department of Telecom (DoT) notice September 21, 2021 mandated procedures as amended from time to time may be referred to as per Annexure III.

With respect to transaction records, accurate information shall be maintained in such a way that individual transaction can be reconstructed along with the relevant elements comprising of, but not limited to, information relating to the identification of the relevant parties including IP addresses along with timestamps and time zones, transaction ID, the public keys (or equivalent identifiers), addresses or accounts involved (or equivalent identifiers), the nature and date of the transaction, and the amount transferred.

And whereas, the meaning to the terms 'cyber incident' or 'cyber security incident' or 'computer resource' or other terms may be ascribed as defined in the IT Act, 2000 or "The Information Technology (The Indian Computer Emergency Response Team and Manner of performing functions and duties) Rules, 2013" as the case may be.

**And whereas,** in case of any incident, the above-referred entities must furnish the details as called for by CERT-In. The failure to furnish the information or non-compliance with the ibid. directions, may invite punitive action under subsection (7) of the section 70B of the IT Act, 2000 and other laws as applicable.

This direction will become effective after 60 days from the date on which it is issued.



#### Annexure I

Types of cyber security incidents mandatorily to be reported by service providers, intermediaries, data centres, body corporate and Government organisations to CERT-In:

[Refer Rule 12(1)(a) of The Information Technology (The Indian Computer Emergency Response Team and Manner of Performing Functions and Duties) Rules, 2013]

- i. Targeted scanning/probing of critical networks/systems
- ii. Compromise of critical systems/information
- iii. Unauthorised access of IT systems/data
- iv. Defacement of website or intrusion into a website and unauthorised changes such as inserting malicious code, links to external websites etc.
- v. Malicious code attacks such as spreading of virus/worm/Trojan/Bots/ Spyware/Ransomware/Cryptominers
- vi. Attack on servers such as Database, Mail and DNS and network devices such as Routers
- vii. Identity Theft, spoofing and phishing attacks
- viii. Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks
  - ix. Attacks on Critical infrastructure, SCADA and operational technology systems and Wireless networks
  - x. Attacks on Application such as E-Governance, E-Commerce etc.
  - xi. Data Breach
- xii. Data Leak
- xiii. Attacks on Internet of Things (IoT) devices and associated systems, networks, software, servers
- xiv. Attacks or incident affecting Digital Payment systems
- xv. Attacks through Malicious mobile Apps
- xvi. Fake mobile Apps
- xvii. Unauthorised access to social media accounts
- xviii. Attacks or malicious/ suspicious activities affecting Cloud computing systems/servers/software/applications
  - xix. Attacks or malicious/suspicious activities affecting systems/ servers/ networks/ software/ applications related to Big Data, Block chain, virtual assets, virtual asset exchanges, custodian wallets, Robotics, 3D and 4D Printing, additive manufacturing, Drones

xx. Attacks or malicious/ suspicious activities affecting systems/ servers/software/ applications related to Artificial Intelligence and Machine Learning

The incidents can be reported to CERT-In via email (incident@cert-in.org.in), Phone (1800-11-4949) and Fax (1800-11-6969). The details regarding methods and formats of reporting cyber security incidents is also published on the website of CERT-In www.cert-in.org.in and will be updated from time to time.

## **Annexure II**

Format for providing Point of Contact (PoC) information by Service providers, intermediaries, data centres, body corporate and Government organisations to CERT-In

The Information relating to the Point of Contact shall be sent to CERT-In via email (info@cert-in.org.in) in the format specified below and shall be updated from time to time:

Name	
Designation	
Organisation Name	
Office Address	
Email ID	
Mobile No.	
Office Phone	
Office Fax	

## **KYC Requirements**

For the purpose of KYC, any of following Officially Valid Document (OVD) as a measure of identification procedure prescribed by the Reserve Bank of India (Know Your Customer (KYC)) Directions, 2016 / Securities and Exchange Board of India Clarification on Know Your Client (KYC) **Process** and Use of Technology for **KYC** vide Circular SEBI/HO/MIRSD/DOP/CIR/P/2020/73 dated April 24, 2020 / The Department of Telecom File No: 800-12/2021- AS.II dated September 21, 2021 on Self-KYC (S-KYC) as an alternate process for issuing of new mobile connections to Local and Outstation category customers, shall be used and maintained:

- a. The passport,
- b. The driving license,
- c. Proof of possession of Aadhaar number,
- d. The Voter's Identity Card issued by the Election Commission of India,
- e. Job card issued by NREGA duly signed by an officer of the State Government and
- f. Letter issued by the National Population Register containing details of name and address.
- g. Validated phone number
- h. Trading account number and details, Bank account number and bank details

For the purpose of KYC for business entities (B2B), documents mentioned in the Customer Due Diligence (CDD) process prescribed in Reserve Bank of India Master Direction - Know Your Customer (KYC) Direction, 2016 as updated from time to time shall be used and maintained.

#### Annexure-3

## RIHAND-I, II & III (RECEIPT OF COAL THROUGH DIFFERENT MODES

	Oct-18				Nov-18			Dec-18		
	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	
Quantity of Coal	936754.29	167037.60	1103791.89	923676.36	102428.39	1026104.75	989155.90	176539.69	1165695.59	
Normative shortage	1873.51	1336.30	3209.81	1847.35	819.43	2666.78	1978.31	1412.32	3390.63	
Net Qty Receipt	934880.78	165701.30	1100582.08	921829.01	101608.96	1023437.97	987177.59	175127.37	1162304.96	

	Oct-19				Nov-19			Dec-19		
	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	
Quantity of Coal	1210425.34	170848.90	1381274.24	1245966.77	65632.98	1311599.75	1073881.84	0.00	1073881.84	
Normative shortage	2420.85	1366.79	3787.64	2491.93	525.06	3017.00	2147.76	0.00	2147.76	
Net Qty Receipt	1208004.49	169482.11	1377486.60	1243474.84	65107.92	1308582.75	1071734.08	0.00	1071734.08	

Oct-20			Nov-20			Dec-20		
MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total
1174817.92	249363.89	1424181.81	1197975.32	64507.32	1262482.64	1128144.82	23895.29	1152040.11
2349.64	1994.91	4344.55	2395.95	516.06	2912.01	2256.29	191.16	2447.45
1172468.28	247368.98	1419837.26	1195579.37	63991.26	1259570.63	1125888.53	23704.13	1149592.66
	1174817.92 2349.64	MGR 0.2% Rail 0.8%  1174817.92 249363.89 2349.64 1994.91	MGR 0.2%         Rail 0.8%         Total           1174817.92         249363.89         1424181.81           2349.64         1994.91         4344.55	MGR 0.2%         Rail 0.8%         Total         MGR 0.2%           1174817.92         249363.89         1424181.81         1197975.32           2349.64         1994.91         4344.55         2395.95	MGR 0.2%         Rail 0.8%         Total         MGR 0.2%         Rail 0.8%           1174817.92         249363.89         1424181.81         1197975.32         64507.32           2349.64         1994.91         4344.55         2395.95         516.06	MGR 0.2%         Rail 0.8%         Total         MGR 0.2%         Rail 0.8%         Total           1174817.92         249363.89         1424181.81         1197975.32         64507.32         1262482.64           2349.64         1994.91         4344.55         2395.95         516.06         2912.01	MGR 0.2%         Rail 0.8%         Total         MGR 0.2%         Rail 0.8%         Total         MGR 0.2%           1174817.92         249363.89         1424181.81         1197975.32         64507.32         1262482.64         1128144.82           2349.64         1994.91         4344.55         2395.95         516.06         2912.01         2256.29	MGR 0.2%         Rail 0.8%         Total         MGR 0.2%         Rail 0.8%         Total         MGR 0.2%         Rail 0.8%           1174817.92         249363.89         1424181.81         1197975.32         64507.32         1262482.64         1128144.82         23895.29           2349.64         1994.91         4344.55         2395.95         516.06         2912.01         2256.29         191.16

	Oct-21			Nov-21			Dec-21		
	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total
Quantity of Coal	1097711.64	0.00	1097711.64	1153204.18	0.00	1153204.18	1240458.04	37885.02	1278343.06
Normative shortage	2195.42	0.00	2195.42	2306.41	0.00	2306.41	2480.92	303.08	2784.00
Net Qty Receipt	1095516.22	0.00	1095516.22	1150897.77	0.00	1150897.77	1237977.12	37581.94	1275559.06

		Oct-22			Nov-22			Dec-22		
	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	MGR 0.2%	Rail 0.8%	Total	
Quantity of Coal	982297.46	0.00	982297.46	1217064.32	0.00	1217064.32	1118452.96	0.00	1118452.96	
Normative shortage	1964.59	0.00	1964.59	2434.13	0.00	2434.13	2236.91	0.00	2236.91	
Net Qty Receipt	980332.87	0.00	980332.87	1214630.19	0.00	1214630.19	1116216.05	0.00	1116216.05	



#### Non Tariff Income to be shared with Beneficiaries for the FY 2019-20

(Amount in Rs.)

S.No.	Name	Net Non Tariff Income for sharing	Income to be shared (50%)
1	Singrauli Super Thermal Power	8,80,20,860	4,40,10,400
2	Rihand Superthermal Power Proj	6,15,01,782	3,07,50,900
3	Unchahar Super Thermal Power P	4,47,53,180	2,23,76,600
4	Tanda Thermal Power Project	1,48,23,073	74,11,500
5	National Capital Dadrithermal	8,52,54,973	4,26,27,500
6	Auralya Gas Power Project	84,13,319	42,06,700
7	Anta Gas Power Project	32,82,586	16,41,300
8	Dadri Gas Power Project	13,97,322	6,98,700
9	Faridabad Gas Power Project	30,70,536	15,35,300
10 -	Korba Super Thermal Power Proj	5,74,87,815	3,37,43,900
11	Vindhyachal Super Thermal Powe	7,74,57,634	3,87,28,800
12	Sipat Super Thermal Power Proj	4,82,42,738	2,41,21,400
13	Kawasgas Power Project	26,06,908	13,03,500
14	Gandhargas Power Project	37,63,661	18,81,800
15	Farakka Super Thermal Power Pr	6,28,10,342	3,14,05,200
16	Kahalgaon Super Thermal Power	6,22,08,912	3,11,04,500
17	Talcher Super Thermal Power Pr	7,89,64,647	3,94,82,300
18	Talcher Tps	50,78,899	25,39,400
19	Barh Thermal Power Plant	1,48,46,724	74,23,400
20	Ramagundam Super Thermal Power	10,25,17,464	5,12,58,700
21	Simhadri Thermal Power Project	4,16,22,169	2,08,11,100
22	Koldam Hydro Project	15,54,098	7,77,000
23	Bongaigaon	27,66,976	13,83,500
24	Mauda	3,18,44,957	1,59,22,500
25	Solapur STPP	1,35,15,046	67,57,500
26	Kudgi STPP	3,13,50,897	1,56,75,400
27	Lara STPP	18,33,788	9,16,900
28	Gadarwara Super Th Power Plant	32,44,086	16,22,000
29	Darlipalli	2,79,151	1,39,600
30	Khargone	6,35,800	3,17,900
31	Barauni Thermal Power Station	18,11,361	9,05,700
	Total	96,69,61,707	48,34,80,900

For

Management (NTPC)

Thota Vinod Kumar

AGM (Finance Commercial)

For Tanmaya S. Pradhan & Co.

(Cost Accountants)
Por Tanmaya S. Pradhan & Co.
Cast Accountants

CMA Tanmaya S. Pradhan CMA Tanmaya S. Pradhan

(Partner)

M.No. 17590

Amount in ₹

5,No.	Station Name	Net Non- Tariff Income to be considered for Sharing	Non- tariff Income to be shared (50%)
1	Singrauli Super Thermal Power Station	9,25,15,000	4,62,57,500
2	Rihand Superthermal Power Project- Stage 1	5,74,34,400	2,87,17,200
3	Rihand Superthermal Power Project- Stage 2	5,74,34,400	2,87,17,200
4	Rihand Superthermal Power Project - Stage 3	5,74,34,400	2,87,17,200
5	Unchahar Super Thermal Power Project - Stage 1	1,34,20,003	67,10,001
6	Unchahar Super Thermal Power Project-Stage 2	1,34,20,003	67,10,001
7	Unchahar Super Thermal Power Project-Stage 3	67,10,001	33,55,001
8	Unchahar Super Thermal Power Project-Stage 4	1,59,76,194	79,88,097
9	Tanda Thermal Power Project- Stage 1	43,01,840	21,50,920
10	Tanda Thermal Power Project - Stage 2	64,52,760	32,26,380
11	National Capital Dadri thermal- Stage 1	3,40,87,292	1,70,43,646
12	National Capital Dadri thermal- Stage 2	3,97,68,508	1,98,84,254
13	Auraiya Gas Power Project	64,19,200	32,09,600
14	Anta Gas Power Project	34,76,400	17,38,200
15	Dadri Gas Power Project	11,87,800	5,93,900
16	Faridabad Gas Power Project	21,35,800	10,67,900
17	Korba Super Thermal Power Project- Stage 1 & 2	9,14,44,015	4,57,22,008
18	Korba Super Thermal Power Project- Stage 3	2,17,72,385	1,08,86,192
19	Vindhyachal Super Thermal Power Project-Stage 1	4,76,95,182	2,38,47,591
20	Vindhyachal Super Thermal Power Project- Stage 2	3,78,53,319	1,89,26,660
21	Vindhyachal Super Thermal Power Project- Stage 3	3,78,53,319	1,89,26,660
22	Vindhyachal Super Thermal Power Project- Stage 4	3,78,53,319	1,89,26,660
23	Vindhyachal Super Thermal Power Project- Stage 5	1,89,26,660	94,63,330
74	Sipat Super Thermal Power Project- Stage 2	79,70,872	39,85,436
25	Sipat Super Thermal Power Project- Stage 1	1,57,82,328	78,91,164
26	Kawasgas Power Project	49,60,400	24,80,200
27	Gandhargas Power Project	31,29,800	15,64,900
28	Farakka Super Thermal Power Project: Stage 1 & 2	5,80,53,638	2,90,26,819
29	Farakka Super Thermal Power Project- Stage 3	1,81,41,762	90,70,881
30	Kahalgaon Super Thermal Power- Stage 1	96,95,036	48,47,518
31	Kahalgaon Super Thermal Power Station- Stage 2	1,73,12,564	86,56,282
32	Talcher Super Thermal Power Project- Stage 1	1,40,80,467	70,40,233
33	Talcher Super Thermal Power Project- Stage 2	2,81,60,933	1,40,80,467
34	Talcher Tos	70,69,200	35,34,600
35	Barh Thermal Power Plant- Stage 2	1,61,00,800	80,50,400
36	Ramagundam Super Thermal Power- Stage 1 & 2	6,03,47,700	3,01,73,850
37	Ramagundam Super Thermal Power- Stage 3	1,43,68,500	71,84,250
38	Simhadri Thermal Power Project- Stage 1	3,93,80,400	1,96,90,200
19	Simhadri Thermal Power Project- Stage 2	3,93,80,400	1,96,90,200
40	Koldam Hydro Project	10,93,200	5,46,600
41	Bongaigaon	1,37,83,200	68,91,600
42	Mauda	1,18,21,638	59,10,819
43	Mauda- Stage 2	1,56,04,562	78,02,281
44	Solapur STPP	1,36,52,400	68,26,200
45	Kudgi STPP	60,87,800	30,43,900
46	Lara STPP	62,24,800	31,12,400
47	Gadarwara Super Th Power Plant	1,07,29,600	53,64,800
48	Darlipalli	55,00,200	27,50,100
49	Khargone	78,86,800	39,43,400
50	Barauni Thermal Power Station- Stage 1	16,91,800	8,45,900
51	Barauni Thermal Power Station- Stage 2	38,45,000	19,22,500
	Total	1,15,74,28,000	57,87,14,000

For Management (NTPC)

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Thota Vinod Kumar AGM (Finance Commercial) For R.M. Bansal

Cost Accountants FRN- 000022

Shri R.M. Bansal (Partner) M.No. 3323

UDIN2103323 ZZISRTVKJWT

Date\_ 03-12-21

Bansa

अंपर महाप्रानचक (वाणिक्वक) Add. General Manager (Commercial) एन दो वो वो लिनिटेड/MIPC LIMITED

S.No.	Station Name	Net Non- Tariff Income to be considered for Sharing	Non-tariff Income to be shared (50%)
-			
1	Singrauli Super Thermal Power Station	11,18,44,600	5,59,22,300
3	Rihand Superthermal Power Project- Stage 1	4,50,25,800	2,25,12,900
4	Rihand Superthermal Power Project - Stage 2	4,50,25,600	2,25,12,800
	Rihand Superthermal Power Project- Stage 3	4,50,25,600	2,25,12,800
5	Unchahar Super Thermal Power Project- Stage 1	1,92,11,400	96,05,700
7	Unchahar Super Thermal Power Project- Stage 2	1,92,11,600	96,05,800
8	Unchahar Super Thermal Power Project- Stage 3	96,05,800	48,02,900
9	Unchahar Super Thermal Power Project- Stage 4	2,28,71,000	1,14,35,500
10	Tanda Thermal Power Project- Stage 1	84,17,000	42,08,500
11	Tanda Thermal Power Project- Stage 2	2,21,03,400	1,10,51,700
12	National Capital Dadri thermal-Stage 1	57,01,200	28,50,600
13	National Capital Dadri thermal- Stage 2	2,55,13,400	1,27,56,700
14	Auraiya Gas Power Project	61,54,800	30,77,400
	Anta Gas Power Project	68,72,400	34,36,200
15	Dadri Gas Power Project	11,55,400	5,77,700
17	Faridabad Gas Power Project	29,18,400	14,59,200
	Korba Super Thermal Power Project- Stage 1 & 2	11,87,75,200	5,93,87,600
18	Korba Super Thermal Power Project- Stage 3	2,82,79,800	1,41,39,900
20	Vindhyachal Super Thermal Power Project- Stage 1	4,54,69,000	2,27,34,500
21	Vindhyachal Super Thermal Power Project- Stage 2	3,60,86,600	1,80,43,300
22	Vindhyachal Super Thermal Power Project- Stage 3	3,60,86,600	1,80,43,300
23	Vindhyachal Super Thermal Power Project- Stage 4	3,60,86,600	1,80,43,300
24	Vindhyachal Super Thermal Power Project- Stage 5	1,80,43,200	90,21,600
25	Sipat Super Thermal Power Project- Stage 2	1,40,72,800	70,36,400
26	Sipat Super Thermal Power Project- Stage 1	2,78,64,400	1,39,32,200
27	Kawasgas Power Project	47,13,800	23,56,900
28	Gandhargas Power Project	77,01,000	38,50,500
29	Farakka Super Thermal Power Project- Stage 1 & 2	3,28,32,600	1,64,16,300
30	Farakka Super Thermal Power Project- Stage 3	1,02,60,200	51,30,100
31	Kahalgaon Super Thermal Power- Stage 1	2,10,90,600	1,05,45,300
32	Kahalgaon Super Thermal Power Station- Stage 2	3,76,62,000	1,88,31,000
33	Talcher Super Thermal Power Project- Stage 1	2,79,63,800	1,39,81,900
34	Talcher Super Thermal Power Project- Stage 2	5,59,27,400	2,79,63,700
35	Barh Thermal Power Plant- Stage 1	72,95,000	36,47,500
36	Barh Thermal Power Plant- Stage 2	3,80,38,600	1,90,19,300
37	Ramagundam Super Thermal Power - Stage 1 & 2	9,06,49,400	4,53,24,700
38	Ramagundam Super Thermal Power- Stage 3	2,15,83,200	1,07,91,600
39	Simhadri Thermal Power Project- Stage 1	3,46,84,000	1,73,42,000
40	Simhadri Thermal Power Project- Stage 2	3,46,84,000	1,73,42,000
	Koldam Hydro Project	27,14,600	13,57,300
41	Bongaigaon	66,83,200	33,41,600
43	Mauda	98,34,200	49,17,100
44	Mauda-Stage 2	1,29,81,000	64,90,500
	Solapur STPP	2,45,76,400	1,22,88,200
45	Kudgi STPP	73,77,800	36,88,900
47	Lara STPP	1,40,40,000	70,20,000
48	Gadarwara Super Th Power Plant	1,03,03,000	51,51,500
48	Darlipalli	2,38,38,000	1,19,19,000
50	Khargone	1,06,69,800	53,34,900
51	Barauni Thermal Power Station- Stage 1	56,17,800	28,08,900
22	Barauni Thermal Power Station- Stage 2	1,80,49,800	90,24,900
	Total	1,32,91,92,800	66,45,96,400

For

Management (NTPC)

Turun

Thota Vinod Kumar GM (Finance Commercial) For R.M. Bansal Cost Accountants FRN 000022

Shri R.M. Bansal (Partner)

Membership No. 3323

UDIN 2203323ZZDHSWQF2CL

Pate - 07 - 06 - 22

Bans

अपर मसप्रवन्धक (वाणिज्यक) Add. General Manager (Commercial)

5.No.	Station Name	Net Non- Tariff Income to be considered for Sharing	Non-tariff income to be shared (SON)
		considered for sharing	Towns
1	Singrauli Super Thermal Power Station	4,37,94,600	2,18,97,30
2	Rihand Superthennal Power Project-Stage 1	8,10,26,600	4,05,13,30
3	Bihand Superthermal Power Project-Stage 2	8,10,26,400	4,05,13,20
4	Rihand Superthermal Power Project-Stage 3	8,10,26,400	4,05,13,200
5	Unchahar Super Thormal Power Project-Stage 1	\$6,58,600	28,29,30
6	Unchahar Super Thermal Power Project- Stage 2	\$6,58,600	28,29,30
7	Unchahar Super Thermal Power Project-Stage 3	28,29,400	14,14,70
	Unchahar Super Thermal Power Project- Stage 4	67.36,400	33,68,20
	Tanda Thermal Power Project- Stage 1	41,25,200	20,62,60
10	Tanda Thermal Power Project-Stage 2	1,73,75,800	61,87,900
11	National Capital Dadri thermal- Stage 1	14,31,94,600	7,15,97,300
12	National Capital Dadri thermal-Stage 2	15,70,60,400	8,35,30,704
13	Auralya Gas Power Project	52.54.200	16.17.10
14	Artis Gas Power Project	56,49,000	28,24,500
15	Oudri Gas Power Project	9,89,900	4,94,90
16	Faridabad Gas Power Project	25.66.400	12.83.20
17	Korba Super Thermal Power Project-Stage 1 & 2	9,95,17,600	4,97,58,80
18	Korba Super Thermal Power Project-Stage 3	2,36,94,600	1,18,47,300
19	Vindhyachai Super Thermal Power Project-Stage 1	4.18.19.600	2,09,09,800
20	Vindityachal Super Thermal Power Project-Stage 2	3,31,90,400	1,65,95,20
21	Vindhyachal Super Thermal Power Project-Stage 3	3.31.90.400	1,65,95,000
22	Vindhyachol Super Thermal Power Project-Stage 4	3 31.90 400	1.65.95.20
-23	Vindhyachal Super Thermal Power Project- Stage 5	1.65.95 200	82,97,60
24	Sipat Super Thermal Power Project-Stage 2	6.76.15.400	3,38,07,70
25	Spat Super Thermal Power Project-Stage 1	13,18,78,600	6,69,39,300
26	Kawasas Power Project	43.10.200	21.55.100
27	Gandhargas Power Project	11,39,000	5.69.90
28	Farakka Super Thermal Power Project- Stage 1 & 2	3,78,23,800	1.89.11.90
29	Farakka Super Thermal Power Project- Stage 3	1.18.20.000	59 10 000
30	Kahalgaon Super Thermal Power- Stage 1	8,91,41,600	1,95,70,800
31	Kahalgaon Super Thermal Power Station-Stage 2	6,96,95,800	3,49,47,90
12	Talcher Super Thormal Power Project-Stage 1	8,41,67,200	4,20,83,600
33	Talcher Super Thermal Power Project-Stage 2	16.83.34.400	8,41,67,200
14	Barh Thermal Power Nant-Stage 1	63.50.600	31,75,300
35	Barh Thermal Power Plant - Stage 2	1,27,01,200	63,50,600
36	Ramagundam Super Thermal Power-Stage 1 & 2	8,37,34,400	4.18.67.100
37	Ramagundam Super Thermal Power- Stage 3	1,99,36,800	99,68,400
38	Simhadri Thermal Power Project. Stage 1	1,64,29,600	82 14 800
19	Simhadri Thermal Power Project-Stage 2	1,64,29,600	82,14,800
40	Koldam Hydro Project	10,94,800	5,47,400
41	Borgagaon	1,22,73,000	61,36,500
42	Mauda	2,06,96,800	1,03,48,400
43	Mauda-Stage I	2,73,19,800	1,16,59,900
44	Solapur STPP	1,50,01,400	75.00.700
45	Rudge STPP	1,40,90,000	70.45,000
46	Lara 5770	2.28.88.600	1,14,44,300
47	Gadarwara Super Th Power Plant	2.19.91,000	1.09.95.50
48	Darligalli	59.85,200	29.52,600
49	Diargone	27.03.000	13,51,500
50	Baraum Thermal Power Station-Stage 1	16,87,200	8,43,600
51	Barauni Thermal Power Station- Stage 2	76,69,400	38,34,70
52	Nabinagar Super Thermal Power Station-Stage 1	5,90,19,400	2,95,09,700
53	Murafforeur TPS (Kanti) - Stage 2	28.39.600	14.19.800

For

Management (NTPC)

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Thota Winod Kumar GM (Finance Commercial) For R.J. Goel & Co., Cost Accountants

(nut Chisham Goet) 02-06-2023

Partner Monteciphia No. 14256

UDIN: 2314256ZZ56BFOHJSM

वायर नारामान्यक (मागिरिव्यक) Add. General Mangar (Commercial) एन दो वो को लिमिटेक / NIPC LMITED

#### NTPC Limited

# S. DHAL & CO.

# Non-tariff income to be shared with beneficiaries for the year 2023-24 OST ACCOUNTANTS

51 Na.	Station Name	Net Non-tariff income to be considered for sharing	Non-tariff income to be shared (50%)	
1	Singrauli Super Thermal Power Station	25.54,04,400	All Committee of the Co	
- 2	Rihand Superthermal Power Project-Stage 1	6,32,12,600		
3	Rihand Superthermal Power Project: Stage 2	6,37,12,800		
4	Airhand Superthermal Fower Project- Stage 1	6.32,12,600		
5	Unchahar Sieser Thermal Power Project - Stage 1	1.13,29,000	2.4.0000,000	
6	Unchahar Super Thermal Power Project: Stage 2	1.13,29,000	2000000	
7	Unchahar Super Thermal Power Project- Stage 1	56,64,600	28.32.3	
8	Unchahar Super Thermal Power Project: Stage 4 Tanda Ehermal Power Project: Stage 1	1,34,87,000	67,43,500	
9			16.96.800	
10	Tanda Thermal Power Project: Stage 2	3.41.80.600	1.70.90.300	
11	National Capital Dadii thermal-Stage 1	8.89,64.800	4,44,82,400	
12	National Capital Dadri thermal-Stage 2	10,37,92,600	5.38,96,300	
11	Auraya Gas Power Project	35,80,600	7,80,300	
14	Anta Gas Power Project	15,59,000	2,79,500	
15	Dedri Gas Power Project	6,11,400	3,05,700	
16	Faridabad Gas Power Project	54.37.200	27.18.600	
17	Kortia Super Thermal Power Project: Stage 1 & 2	16,04.42,400	8.02.21,300	
18	Korba Super Thermal Power Project-Staze 3	3,82,00,600	1.91.00,300	
19	Windhyachal Super Thermal Power Project - Stage 1	1,31,80,800	1.65.90,400	
20	Windbyachal Super Thermol Power Project - Stace 3	2,63,34,000	1.31.67.000	
21	Windbyachai Soper Thermai Power Project, Staze 3	2,63,14,000	1.31,67,000	
22	Windhyachal Super Thermal Power Project, State 4	2.61.34,000	1.31.67.000	
23	Windhyachal Super Thermal Power Project: State 5	1.31.67,000	65.83.500	
24	Signat Super Thermal Power Project - Stage 2	4,76,49,600	2.38.24,800	
25	Sejat Super Thermal Power Project: Stage 3	9.43,45,000	4,71,71,000	
26	Kewasgas Fower Project	41.55,200	20,77,600	
27	Gandhargas Power Project	65.43.000	32,71,500	
28	Farakka Super Thermal Power Project- Stage 1 & 2	5,83,48,200	2,91,74,100	
29	Farakka Super Thermal Power Project: Stage 3	1.82.33.800	91,16,900	
30	Kahaigaon Super Thermal Power-Stage 1	3,65,40,400	1.82,70.200	
11	Kahalgaon Super Thermal Power Station: Stage 2.	6.52,50,600	3.26,25,300	
32	Talcher Super Thermal Power Project: Stage 1	4.90.71,000	2,45,35,500	
33	Taicher Super Thermal Power Project: Stage 2	9.81,42,200	4,90,71,100	
34	Barti Thermal Fower Plant-Stage 1	1.34.17.400	67.06,200	
35	Barti Thermal Fower Flant-Stage 2	1,60.95,000	80.47,500	
36	Morth Karangura STPS	1,83,41,200	91.70,600	
37	Ramagunden Super Thermal Power-Stage 1 & 2	13,53,93,200	6,76,96,600	
38	Ramagundem Syper Thermal Power - Stage 3	3,22,36,400	1,61,18,200	
39	Simhadri Thermal Power Project-Stape 1	1,76,31,400	88,15.200	
40	Simhadri Thermal Power Project-Stage 2	1.76,31,450	88,15,700	
-11	Koldam Hydro Pioject	39,81,000	9.90.500	
42	Bongaigaon	3,12,54,000	1.56.27.000	
43	Mauda	1,29,51,400	64,75,700	
44	Mauda-Stage 2	7,70.96,000	85,48,000	
45	Solapur STPF	1,54,92,800	92,46,400	
46	KudijiSTPP	5,41,77,800	2,70,88,900	
47	Kara STPP	4.88.51.000	1.44,25,500	
48	Gadarwara Super Th Power Plant	1.5R01,400	79.00.700	
49	Darkpati	2,40,40,000	1.20.20.000	
50	Khargone	1,24,11,000	62.05.500	
51	Barauni Thermal Power Station- Stage 1	93.82,000	46,91,000	
52	Barauni Thermal Power Station - Stage 2	4,25,45,200	2.13.72.600	
53	Nabinagor Super Thermal Power Station-Stage 1	2,05,51,600	1.02,75,800	
54	Muzaffarpur TPS (Kanto Stage 2	64,30,800	92,15,400	

Far

Management (NTPC)

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Thata Vined Kumar GM (Finance Commercial) For S. Chal & Co., Cost Accountants

1,05,32,16,800

(Sallabata Dhar)

(Sallabala Dhot) Partner Membership No. 22835

UDIN - 2422835ZZ2V33V810O



2.10,44,33,600

Annexure-5

#### FOLLOWING WERE PRESENT:

- 1. Shri Naresh Agarwal, Hon'ble Minister of Energy, U.P.
- 2. Shri Atul Chaturvedi, Secretary (Energy), Govt. of U.P.
- 3. Shri G P Singh, Chairman, UPSEB
- 4 Shri Rajendra Singh, CMD, NTPC

## PRINCIPLES FOR CONSUMPTIVE WATER CHARGES FOR FUTURE

Following principles for calculation of consumptive water charges for Rihand and Singrauli STPS to be adopted in future will be as under :-

- Water level may be taken on theoretical basis i.e. minimum of 830 feet and maximum of 880 feet.
- T&D losses to be taken @ 12 % (Twelve percent ).
- Aux. Power consumption of UPSEB hydro stations viz Rihand and Obra will be taken as 0.5 %.
- The energy loss will be calculated taking into consideration the actual availability of Kihand hydro station of UPSEB for the year 1998,
- Water charges will be payable from the date of synchronization of the units. 4)
- The per Kilowatt hour charges to be applied will be the highest average annual rate during 1998 amongst Northern Region coal based stations of NTPC and will be applicable w.e.f. 1.1.1999 for next five years. This will be revised upwards by 10% after every five years.
- To provide for generation loss on account of spillover of water, the charges for consumptive use will be worked out on the basis of 3.0 ( Three ) times of the above rate in place of 2 ( Two ) times as earlier proposed. No separate payments towards spillover water will be admissible.
- Water charges will be pass-through in the tariff.

M P Govt have demanded water charges from NTPC for Vindhyachal Super Thermal Power Station. It was agreed that water charges for Vindhyachal Super Thermal Power Station of NTPC located in M P will not be billed to NTPC till the matter is settled between UP and MP Goys as to who would be beneficiary of water charges.

(ATUL CHATURVEDI)

Secretary (Energy)

Govt of U.P.

(RAJENDRA SINGH)

CMD NTPC (GPSINGH)

Chairman UPSEB



Month	Availability as intimated by UPSEB(as recorded in IOM ref No: NTPC:NRHQ :Comml: 2 Dated 26/05/99 From DGM (Comml) NRHQ Allahbad to GM (F&A).CC %	No of days	Available hours
Jan-98	98.46	31	73254.24
Feb-98	96.46	28	64821.12
Mar-98	89.86	31	66855.84
Apr-98	84.02	30	60494.4
May-98	97.09	31	72234.96
Jun-98	87.84	30	63244.8
Jul-98	77.81	31	57890.64
Aug-98	79.14	31	58880.16
Sep-98	71.95	30	51804
Oct-98	88.57	31	65896.08
Nov-98	80.26	30	57787.2
Dec-98	86.6	31	64430.4
Year 1998	86.48	365	757593.8



PART-I FORM- 15

Details of Source wise Fuel for Computation of Energy Charges

Name of the Company:	NTPC Limited
Name of the Power Station :	Rihand STPP Stage L II & III
	The state of the s

S. No.	Month	Unit	Oct-1	18	Nov	-18	Dec-18	
4.5	CONTRACTOR OF THE CONTRACTOR O		Dumestic	Imported	Domestic	Imported	Domestic	Importer
A)	OPENING QUANTITY			D. SAMESTING	1	Jungoo sea	aromenic.	Aniparse
-	Opening Quantity of Coal/Lignite	(MMT)	0,7986		0.8633	-	0.8580	
3	Value of Stock	(Hs.)	1731507484		1827094965		2013308246	
B)	QUANTITY						80707002,40	
3	Quantity of Could ignite supplied by Could ignite Company	(MMT)	1.1038		1.0261		1.1657	
4	Adjustment (+/-) in quantity supplied made by CoaliLignine Company	(MMT)			1.0401		1.10221	
5	Coal supplied by Coal/Lignite Company (3+4)	(MMT)	1.1038		1.0261		1.1657	
6	Normative Transit & Hamilling Losses (For coul/ Ligarity based projects)	(MMT)	0.6032		0.0027		0.0034	
7	Net coal / Lignite Supplied (3-4)	(MNT)	1.1006		1.0234		1.1623	
0	PRICE				1.02.74		1.1623	
8	Amount charged by the Coel /Lignite Company	(Rsc)	2206288010		2531217257		2364612979	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	220000000		2001211201		2309012979	
10	Handling, Sampling and such other similar charges	(Ru)	24146258		28111357		58428824	
11	Total amount Charged (8+9+10)	(Rs.)	2230434268		2559328814	_		
D)	TRANSPORATION	1	2230131200		2339320014		2423041803	
12	Transportation changes by mil ship/road transport					_		
	By Rail	(Rs.)	36320499		22283997		19210000	
	By Road		1100,000 100		550007971		38310986	
	By Ship					-	-	
13	Adjustment (+/-) is anount charged made by Rathways/Transport Company	(Rs.)				_		
14	Demurage Charges, if any	(Rs.)						-
15	Cost of diesel in transporting coal through MGR system, if applicable	( Bs.)	20994373		18434410	_	Lecuted	
16	Total Transportation Charges (12+13+14+15)	( Rs.)	57514872		40718407		18527883	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	committee				56838860	
E)	TOTAL COST		2287949140	-	2600047221		3479880672	
	Landed cost of cost/ Lignite (2+17)(1+7)	Rs/MT	2000					
19	Blending Ratio (Duniestic/Imported)	Bs/311	2116.46		2346.48		2224.00	
20	Weighted average case of coal/ Lignite for preceding three months	The states	100.00		00.001		100.00	
F)	OUALITY	Rs/MT			2228	62		
	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	ALEX STREET						
22	GCV of Divinesta: Coal supplied as per bill of Coal Company (Eq Basis)	(kCnl/Kg)	1000					
	GCV of Impuried Coal of the opening stock as per bill Coal Company	(kCal/Kg)	4660		5009		4667	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)						
	Weighted average GCV of coal' Lignite as Billed	(kCal/Kg)	_					
	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)						
27	GCV of Demestic Coal supplied as received at Station (TM basis)	(kCal/Kg)						
	GCV of Imported Coal of opening stock as necessard at Station (184 easil)	(kCul/Kg)	4000		4402		4137	
29	OCV of Imported Coal of opening stock as received at Space	(hCnl/kg)						
30	Weighted average GCV of coal/ Lignite as Received (1987)	(kCat/Kg)	7700					
-	The second and other control of the second s	(lcCnt/lsg),	4000	-	4400	2	4137	

Add Commercial (all follows)

(Petitioner)

PART-I FORM- 15A

# Details of Secondary Fuel for Computation of Energy Charges

Name of the Company :	NTPC Limited	
Name of the Power Station :	Rihand STPP Stage I, II & III	

Sl.No.	Month	Unit	Oct	-18	Nov	-18	Dec	-18
			LDO	HFO	LDO	HFO	LDO	HFO
1	Opening Quantity of Oil	KL	561.95	4383.4	736.45	4263.2	3639.84	4114.
2	Value of Opening	(Rs)	29044499	134181533	41005239		215594390	12594097
3	Quantity of Oil supplied by Oil Company	KL	233	0		0	0	12,234927
4	Adjustment(+/-) in quantity supplied made by Oil Company	KŁ	0		0.00	0	0	(
5	Oil supplied by Oil Company (1+2)	KL	233	- 0	3433.98	0	0	-
6	Normative Transit & Handling Losses	KL	0		0.00	0	0	1
7	Net Oil Supplied (3-4)	KL.	233	0	3433.98	0	0	
8	Amount charged by the Oil Company	(Rs)	15217996	0	206016697	0	0	- (
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)						
10	Total amount charged (6+7)	(Rs)	15217996	0	206016697	0	0	- (
11	Transportation charges by rail / ship / road transport	(Rs)			200010031		- 0	-
12	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)						
13	Demurrage Charges, if any	(Rs)						
14	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)						
15	Total Transportation Charges (9+/-10-11+12)	(Rs)						
	Others -Entry Tax on Oil	(Rs.)						
17	Total amount Charged for fuel supplied including Transportation (8+13+14)	(Rs)	15217996	0	206016697		6	
18	Landed Price of Oil	Rs/KL	55679,60	30611.29	59231.77	30611.29	59231.77	30611.29
19	Weighted average GCV of Oil as fired Stage-I	(kCal/L)	979		979	The Part of the Pa	959	
20	Weighted average rate of Secondary Fuel Stage-I	Rs/KL	3061	.29	3061	1.29 -	5923	
19	Weighted average GCV of Oil as fired Stage-II	(kCal/L)	975	10	979		970	
	Weighted average rate of Secondary Fuel Stage-II	Rs/KL	30611		30611	No.	3061	The later was a second
	Weighted average GCV of Oil as fired Stage-III	(RCA/L)	934		941	******	959	
20	Weighted average rate of Secondary Fuel Stage	Resh	A55679		59231	Change and the second	59231	of the same of the

&

HOTAN KUMME ABRONETA

Mr No - 425 104

PETITIONER

		PART
Details of Source wise Fuel for Computation of Energy Charges		FORM- I
	WTPC Umited	
	Riband STPP Stage III	

5. No.	Month		Oct-19		Mov-19		Dec-19	
-	1337		Demestic	Meported	Domestic	Imported	Domestic	Imported
A)	OPENING QUANTITY							
3	Opening Quantity of Coal/Lignite	(MMHT)	0.0445		0.1666		0.4684	
3	Value of Stock	(85)	95565270		356473917		1164742600	
80	QUANTITY	1233						
3	Quantity of Coal/Lightle supplied by Coal/Lightle Conyana	(MMT)	1.3813		1,3316		1.0739	
4	Adjustment (4/-) in quantity supplied made by Coal/Lighte Company	(MMT)	0.0000		0.0000		0.0000	
3	Coal supplied by Coal/Lignite Company (3-4)	(MMT)	1.3813		3.3116		1.0739	
1	Northable Transit & Handling Losses (For toal/ Lightle based projects)	(MMT)	0.0036		0.0030		0.0021	
.7	Net coal / Lign/ler Supplied (3-4)	(MINT)	1.3775		1.1086		5.0717	
C)	PRICE	13200					L-3-2539	
	Amount charged by the Coal /Lignite Company	(Rx.)	2856295555		1229503233		2018192474	
	Adjustment (4/-) in amount diarged made by Coal/Lignite Company	(Rx.)	a		0			
10	Handling Sampling and such other similar charges	(Ru.)	29857197		05007174		64595642	
11	Total amount Charged (8+9+10)	(8x.)	2606092752		3275550407		2082989116	
D)	TRANSPORATION	1 2 2 2					-	
12	Transportation charges by vai Vshou/road transport							
	Ds Rail	(Rt.)	37212719		14418692			
	By Road	(Rt.)	D		a		0	
	By SNo	(Rt.)	D		0			
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rr.)	D		0		0	
14	Demurrage Charges, if any	(Rid						
15	Cost of diesel in transporting sool through MSR system, if applicable	(RL)	34548159		21496274		18856007	
16	Total Transportation Charges (12+13+14+15)	(Ra.)	61260678		35914966		18656007	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Fx.)	2947353630		3311425879		2099645123	
1)	TOTAL COST		100000000000000000000000000000000000000		7,700			
16	Landed cost of load/ Lignite (2+17)/(1+7)	Rs./MT	2119.89		2486.45	_	2119.49	
15	Blending Ratio (Domestic/Incorted)	10000	100.00		100.00		100.00	
20	Weighted average cost infloorly Lignite for preceding three months	Rs./MT	0.00		2248	mt.	-	
1)	QUALITY	1 2000						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(bCal/Rg)	4558		4578		4898	
22	GCV of Domestic Coal supplied as per bill of Coal Computer (Eq Basis)	(ACAL/FE)	4579		4939		4226	
23	GCV of Imported Coal of the opining stock as per bill Coal Company	(bCal/Kal)	- 200		23222		3811	
24	GCV of Imported Coal supplied as per bill Coal Company.	(kCal/Kal)						
25	Weighted average GCV of coeV Lignite as Brilled	(kCal/Ka)	4570	8	481		443	,
76	GCV of Domestic Coal of the opening stock as received at Station	(MCal/Kg)	4126		4072		4355	
27	GCV of Domestic Coal supplied as received at Station (TM basis)	(leCal) Kg1	4070		4393		4020	
28	GCV of Imported Coal of goening stock as received at Station	(MCaVKg)	- 20				4020	
29	GCV of Imported Coal of corning stock as received at Station	(MCal/ Kg)						
30	Weighted average GCV of coals' i gotte as Reserved (TM basis)	(ACaVIE)	407	7	435		632	5

MOHD Digitally signed by MCHD IMRAN Date: 2024 11.02

Name of the Company: Name of the Pewer Station :

> Sanjay Sinha

Digitally righted by Sangay Sinha Date 2024-11-12 11-40-42 - 85'30'

Sailabala Dhal, Partner M No- 22835

UDIN - 2422835ZZTKX236AZ5





Head Office: # 400/4897, Baramunda VIIIa by Mob.: +91 9437008479, +43 mm 78084

Branch Office: Kolkata | Bangalore | Mumbai | Ghaziabad Bhubaneswar-751003

PART-I FORM- 15A

**Details of Secondary Fuel for Computation of Energy Charges** 

Name of the Company: NTPC Limited Name of the Power Station: Rihand STPP Stage III

SI.No.	Month	Unit	Oct-1	19	Nov-	19	Dec-1	19
1110000			LDO	HFO	LDO	HFO	LDO	HFC
1	Opening Quantity of Oil	KL	5772.386		5507.386		5383.39	
2	Value of Opening	(Rs)	305775957		291738325		285169772	
3	Quantity of Oil supplied by Oil Company	KL	0		0.00		0	
4	Adjustment(+/-) in quantity supplied made by Oil Company	KL	D		0.00		0	
5	Oil supplied by Oil Company (1+2)	KL	0		0.00		0	
6	Normative Transit & Handling Losses	KL	0		0.00		0	
7	Net Oil Supplied (3-4)	KL	0		0.00		0	
8	Amount charged by the Oil Company	(Rs)	.0		0		0	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)					24084	
10	Total amount charged [6+7]	(Rs)	0		0		24084	
11	Transportation charges by rail / ship / road transport	(Rs)	0		0		0	
12	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)	0		р		0	
13	Demurrage Charges, if any	(Rs)	0		0		0	
14	Cost of diesel in transporting. Oil through MGR system, if applicable.	(Rs)	0		0		0	
15	Total Transportation Charges (9+/-10-11+12)	(Rs)	0		0		0	
16	Others	(Rs.)	0		D		0	
17	Total amount Charged for fuel supplied including Transportation (8+13+14)	(Rs)	0		D		24084	
18	Landed Price of Oil	Rs/KL	52972.20		52972.20		52976.70	
19	Weighted average GCV of Oil as fired Stage-III	(kCal/L)	9609	9	9609	}	9609	,
20	Weighted average rate of Secondary Fuel Stage-III	Rs/KL	52972	.20	52972	20	52976.	70

MOHD **IMRAN**  Digitally signed by MOHD IMRAN Date: 2024.11.02 16:35:15 +05'30'

Sanjay Sinha

Digitally signed by Sanjay Sinha Date: 2024 11.13 11:42.29 +05'30'

PETITIONER

Sailabala Dhal, Partner

M No- 22835

UDIN - 2422835ZZTKX236AZ5



in G & General Hamps (Albert Valle)

BAGARIYA

	Details of Source wise	Fuel for Co	mputation of En	ergy Charges	;			
Name o	f the Company :	NTPC Limited						
lame o	f the Power Station :	Rihand STPP S	Stage III					
	T	Unit	Oct-2	•	Nov-	20	Dec-2	20
S. No.	Month	Oilit	Domestic	Imported	Domestic	Imported	Domestic	Impor
A)	OPENING QUANTITY							
1	Opening Quantity of Coal/Lignite	(MMT)	0.0000		0.2248		0.5834	
2	Value of Stock	(Rs.)	0		452410097		1282722780	
B)	QUANTITY							
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)	1.4242		1.2625		1.1520	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	0.0000		0.0000		0.0000	
5	Coal supplied by Coal/Lignite Company (3+4)	(MMT)	1.4242		1.2625		1.1520	
6	Normative Transit & Handling Losses (For coal/ Lignite based projects)	(MMT)	0.0043		0.0029		0.0024	
7	Net coal / Lignite Supplied (3-4)	(MMT)	1.4198		1.2596		1.1496	
C)	PRICE							
8	Amount charged by the Coal /Lignite Company	(Rs.)	2665832773		2343178863		2196593399	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	65179008		379086848		310108449	
10	Handling, Sampling and such other similar charges	(Rs.)	40785312		51279360		58721528	
11	Total amount Charged (8+9+10)	(Rs.)	2771797093		2773545071		2565423376	
D)	TRANSPORATION							
12	Transportation charges by rail/ship/road transport							
	By Rail	(Rs.)	58232386		14809169		31506721	
	By Road	(Rs.)	0		0		0	
	By Ship	(Rs.)	0		0		0	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
14	Demurrage Charges, if any	( Rs.)						
15	Cost of diesel in transporting coal through MGR system, if applicable	( Rs.)	27262513		22773599		21624463	
16	Total Transportation Charges (12+13+14+15)	( Rs.)	85494899		37582768		53131184	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	( Rs.)						
E)	TOTAL COST		2857291992		2811127839		2618554560	
E)		D /247	2012.41		2198.59		2251.14	
18 19	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT						
20	Blending Ratio (Domestic/Imported)	D /247	100.00		100.00	22	100.00	
	Weighted average cost of coal/Lignite for preceding three months	Rs./MT	ı		2161	.22		
F)	QUALITY	(10.1/4.)						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)						
22		(10.1/4.)	4365		4435		4667	
	GCV of Domestic Coal supplied as per bill of Coal Company (Eq Basis)	(kCal/Kg)	4435		4708		4679	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)						
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)	4425		466	_	467	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	4435	)	466	/	4675	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3630		3817		4148	
27	GCV of Domestic Coal supplied as received at Station (TM basis)	(kCal/Kg)	3817		4207		4151	
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)						
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)						
30	Weighted average GCV of coal/ Lignite as Received (TM basis)	(kCal/Kg)	3817	'	414	8	4150	)

Date: 2021.06.18 10:47:15 +05'30'

(Petitioner)

PART-I FORM- 15A

#### **Details of Secondary Fuel for Computation of Energy Charges**

Name of the Company: NTPC Limited Name of the Power Station: Rihand STPP Stage III

_					_			
Sl.No.	Month	Unit	Oct		Nov		Dec	
			LDO	HFO	LDO	HFO	LDO	HFO
1	Opening Quantity of Oil	KL	5060.395		5004.395		4089.40	
2	Value of Opening	(Rs)	229437752		226898718		185412719	
3	Quantity of Oil supplied by Oil Company	KL	0		0.00		3156.27	
	Adjustment(+/-) in quantity supplied made by Oil	KL	0		0.00			
4	Company	KL	0		0.00			
5	Oil supplied by Oil Company (1+2)	KL	0		0.00		3156.27	
6	Normative Transit & Handling Losses	KL	0		0.00		0	
7	Net Oil Supplied (3-4)	KL	0		0.00		3156.27	
8	Amount charged by the Oil Company	(Rs)	0		0		142915264	
	Adjustment(+/-) in amount charged made by Oil Company							
9		(Rs)					0	
10	Total amount charged (6+7)	(Rs)	0		0		142915264	
	Transportation charges by rail / ship / road transport							
11		(Rs)	0		0		0	
	Adjustment (+/-) in amount charged made by							
12	Railways/Transport Company	(Rs)	0		0		0	
13	Demurrage Charges, if any	(Rs)	0		0		0	
	Cost of diesel in transporting Oil through MGR system, if							
14	applicable	(Rs)	0		0		0	
15	Total Transportation Charges (9+/-10-11+12)	(Rs)	0		0		0	
16	Others	(Rs.)	0		0		0	
	Total amount Charged for fuel supplied including							
17	Transportation (8+13+14)	(Rs)	0		0		142915264	
18	Landed Price of Oil	Rs/KL	45339.89		45339.89		45313.71	
19	Weighted average GCV of Oil as fired Stage-I	(kCal/L)	954	40	95	40	937	71
20	Weighted average rate of Secondary Fuel Stage-I	Rs/KL	4533	9.89	4533	9.89	4531	3.71

**BAGARIYA** 

GOTAM KUMAR Digitally signed by GOTAM KUMAR BAGARIYA Date: 2021.06.18 10:46:03 +05'30'

PETITIONER

And Common Market (Albiforer) And Co
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	Details o	d Source wise	e Fuel for Comp	utation of E	nems Chara						FORM- 1		
	Name of the Company:	- SALLING MICH	Francisc Cong.	Olassun se ei	sealth custo	NTPC Liv	altri of	_					
	Name of the generating Station :						the state of the s						
	Month	# ## ## ## ## ## ## ## ## ## ## ## ## #											
S. No.	Month	- uuu	Domestic	Imported	Nomina	Domestic	Imported	Womass	Biometel	Bec-21			
Ai	OPENING QUANTITY		Drivering State	Holoutea	promina	DOMESTIC	impoored	momass	Domestic	Imported	Biomais		
1	Opening Quantity of Coal/Lightle	Mf	190191.26	1.00	6.00	1915/33-46	0.00	0.00	1000000000	- 1	-		
- 2	Value of Stock	84.	41,2813607	0	0.00	47)971223	1	0.00	191935.25		0.0		
90	QUANTITY				-	- CONTRACTOR	- "	- 4	441706535				
3.	Quartity of Cost/Lignite supplied by Cost/Ligneto Company	MT	1097711.64	0.00	0.000	115030438	0.00	0.00	1270341.06	10.00	0.0		
.4	Adjustment (+)-( in quantity supplied made by Coal/Lighte Company	MIT	0.00	0.000	0.00	0.00		0.00	0.00		0.0		
5	Coal supplied by Cool/Cariba Company (3+4)	MT	1097713.64	0.000	0,00	1158204.18		0.00	1278343.06	0.00	0.00		
- 0	Moresetive Transit & Handling Losses (For cost) Lightle based projects)	MT	2195.42	0.00	0.00	2306.41		0.00	2784.00	0.00	0.00		
- 7	Net coal / Lighte Supplied (3-4)	MIT	1095516-22	0.00	0.00	1150097.71		0.00	477771	17770	0.00		
G.	PRICE		100011011	-	9,000	11/00/01/27	1000	1140	1275559.06	0.00	0.00		
8	Amount charged by the Coal /Ugnite Company	86.	2109302953	81	- 0	2209737972	g g	0	2440400000	-			
9	Adjustment in/4 in arranget charged made by Cost/Lightle Company	fa.	385403868	0	- 0	130597835			2440466576	- 0			
103	Handling, Sampling and such other similar charges	85.	47576247	- 0	- 0	41594717	0	0	686458332	- 0			
11	Total amount Charged (B+9+10)	Bs.	2763281068	- 0	- 0	2589900544	0	. 0	5043,7449	- 1	- 14		
D)	TRANSPORATION	- 44	2740245944	- "	- 1	DEMINISH	0	- 0	3177342557	- 3	-		
12	Transportation changes by rail/ship/head transport				_								
	By Ruli	Rs.	-	-	-								
	By Road	Ph.	- 1	- 10	- 9	- 0		- 12	7833317	- 0	- 4		
- 31	Dy Shigi	- PA.	0	- 2	- 0			- 0	- 0	0	- 4		
33	Acquirment (+/-) in amount charged made by following Promptet Company	Fig.	0	- 3	- 0	- 0		- 9	0	- 0	- 0		
34	Demurage Charges, if any	Fig.	- 1	- 4	- 9	. 0	- 9	- 0	- 40	-0	- 0		
29	Cost of deser in transporting your through MGR system. Fopplicable	85.	23456300	a		25783011	- 0	-	14123014				
26	Total Transportation Charges (12+13+54+15)	As.	25456300	0	- 0		- 0	- 0	26459958	D	- 0		
100	Total amount Diarged by coal/Agrite supplied including Transportation [11+16]	84.	23439310	- "	- "	2578701.1	- 0	- 0	34292275	-0	- 0		
17		-	2705737158		-		1 2		Contract Contract				
11	TOTAL COST		E110747308	- "	- 0	2835687555	- 0	- 10	3713630632	- 9	- 0		
18	Landed cost of cost/ (agrille (2+37)/(1+7)	85,750	2473.06	0.60	0.50	4.00	0.00	2.00		4.74			
19	Blending Ratio (Connects/Imported)	- Parlier	100.00	0.00			9.00	0.00	9.00	0.00	0.00		
20	Weighted average cost of cost/ i grete (reclaring Gornaus)	85,/547		2473.06	0.00	100.00	9.00	0.00	100.00	0.00	0.00		
2014	Weightest entrage cost of cost/Lightle (excluding Bonness)	4s./MT	2473.0	A STATE OF THE PARTY OF THE PAR			2383.33			7489.51			
n	QUALITY	103191	\$473.0		-	2901.5		1	2499,5		ATE CASE		
	GCV of Disnestic Cold of the opening coal stock as per lift of Coal Company	(b(5)/9g)		_	-			_					
23	and the state of t	(service)	4575	100000			112300			951590			
22	GCV of Domentic Coal supplied as per bill of Coal Company (Eq Basis)	turnelling.	4575	10000	_	#901	100000		A748				
	GCV of imported Coal of the opening stock as per list Coal Congany	(RCR/N)	4550			8723			4000	1000			
21	GCV of Imported Coal supplied as per fill Coal Company	(ACREAD)			100000								
25	Weighted average GCV of coal/ Lightle as fided the holing florrans	STORES AND POSTORIOUS		2000				100	1000				
15a	Weighted overlage GCV of coal/ Capite as Wifed (evaluding Biomata)	044/40	1000	4901	_	-	47/05			4876			
26	UCV of Connects Coal of the opening stock as received at Station	(InCal/Ng)	4901			4748	-		4176		NO COL		
27	SCV of Domentic Coal supplied as received at Station	(hCal/kg)	2983	-	_	-6272	CONTRACTOR OF THE PARTY OF		4318				
28	SCV of Imported Case of opening stock as received at Station	(NCa(/Kg)	4322	-		1307			4472				
29	SCV of Imported Coal of opening stock as recoverd at Station  SCV of Imported Coal of opening stock as recovered at Station	(kCel/Kg)		-		The second					1774		
	Neighted everage GCV of cost/ Lightre as Received (Including Biomans)	(ACADY)		V440	- 12 / 7	-		-			12000		
30s	Weighted exettings GCV of coal/ Lightle as Received Instituting Stormania	(ktal/kg)	4722	4117		4210	4236		6019	ACC			

Mohd Invan वरिष्य प्रचेषक (विला) Sr. Manager (Finance ) इप्रोचेको शिल- इहरी / NTPC ( आ. Poole)

Shalab Digitally signed by Shalabh Jain Date:

h Jain 2022.06.2

2022.06.22

+05'30'

अपर नाराप्रयन्थक (चारि Addi. General Manager (Con एन टी वी की लिविटेस/MIPA	
Author Carrell (Carrelle (Carrelle)	

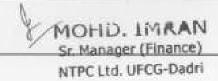
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					100	10111-0
	1-0.31					
Rihand 5T	PP Stage III					
	Oct-21		Nov-Z		Dec-2	1
Unit	LDO	HFO	LDO	HFO	LDO	HFO
-						
NI.	4,360.09	0.00	7,027.17	0.00	6.865.13	-0.0
Rs	22,02,87,492	0.00	45,75,86,271	0.00	The second second	0.0
			all the same of the			-
KL-	3,162.08	0.00	0.00	0.00	0.00	0.0
30,	0.00	0.00	0.00	0.00	717000-	0.0
81.	3,162.08	0.00	0.00	0.00	0.00	0.0
KL.	0.00	0.00	0.00	0.00	0.00	0.0
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	The second second second		1.00	0.00	1.00	0.00
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THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	9232	0	9232	- 0	9232	0
The second secon		7,000	HOUSE			
(Kcal/Ltr)	9232	1000	9232	Section 1	The state of the s	200
	NTPC Limit   Rihand STI   Rihand STI   Rihand STI   Rit	NTPC Limited   Rihand STPP Stage III	Rihand STPP Stage III	NTPC Limited   Rihand STPP Stage III	NTPC Limited   Rihand STPP Stage III	NTPC Limited   Sihand STPP Stage III

PARTH FORM-15

April 1985 Company of the	Carlotte and Selection of the Co.	March 1970	Carlo Company of the American	Committee of the latest and the	Committee of the Commit
Details of	Source wise	FIRST TO	скотрываю	ion of teery	ly Counges

	Name of the Company:	PATPE Limited									
	Name of the generating Station :					Riband STPP	Stage III				
S. No.	Month	Unit		Oct-22			Nov-22		Dec-22.		
3, 140.	ATOTICS.		Domestic	Imported	Blomass	Domestic	Imported	Sigmous	Domestic	Imported	Biomas
(A):	OPENING QUANTITY			11000			(*	1111111		The same	2.0
1.	Opening Quantity of Goal/Algritte	MT	835569.42	0.00	0.00	849342.29	0.00	8.80	837711.48	-0.00	0.1
4.7	Value of Stock	Rs.	2277426302	10	0	18.74(75.368)		10	1930680724	- 0	
- 80	QUANTITY	1,100							- CARONAS-II		
1	Quartity of Cod/Lightle regulard by Cod/Lightle Company.	MT	982297.46	0.00	0.00	1.117004.12	0.00	11.00	1110077.98	-0.00	0.0
4	Adjustment (1/2) in quantity supplied made by Coal/Lignite Company	MT	0.00	.0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
5	Cost supplied by Cost/Lighter Company (3+4):	MT	982297.46	.0.00	0.00	1217064.37	0.00	0.00	1118457.56	0.00	0.1
- 6	Normative Transit & Handling Losses (For coal/ Lightle based projects)	MT	1964.59	0.00	0.00	3634.33	2.00	0.00	2236.91	-0.00	0.0
7	Net sool / Lignite Supplied (3-4)	MIT	98033230	0.00	0.00	1,114630,19	0.00	0.00	1116216.05	0.00	0.4
C	PRICE										
- 8	Amount that god by the Coal /Lightle Company	Fix.	1959993.106	- 0	- 0	3472352502	- 0		J229U10000		
9	Adjustment (+)-) in amount charged made by Coal/Lightte Company	Frs.	175549879	0	- 0	206195971	. 0	- 0	22/89/95/24	- 0	
30	Handling Sampling and such other similar charges	94.	43676431	0	0.	49790307	0	- 0	45579768	- 0	
11	Total amount Charged (8+9+10)	As.	2379161418	. 0	0	2978338770	0	0	2503779374	0	
Di	TRANSPORATION										
12	Transportation charges by raff/ship/road transport										
	by Reft	756	0	- 0	- 0	- 0			- 11	- 0	
	By Road	Rg.	0	- 0	. 0	- 0	- 0	0.0	- 0		
	By Ship	16.	0	- 0	(6)	- 0		. 0	- 0		
11	Adjustment (+/-) in amount charged made by Railways/Transport Company	Fig.	- 8	- 6	- 0	- 5		- 0	- 0		
14	Demurate Charges, if ariv	Ru									
15	Cost of desel in transporting coal through MGH system. If applicable	16.	26729361	- 0	- 6	33930967	- 0	- 6	29847437	- 6	
15	Total Transportation Charges (12+13+14+15)	No.	26729383	- 0	- 0	31530967	0	0	29847437		
100	Total amount Charged for coal/ligible supplied including Transportation	16.	70000000								
.17	(1)+16	114.00	2405890779	- 00	7.0	2710269787	0	- 0	2533676813	- 0	
10	TOTAL COST		ALIELA DE SECUENCIA DE								
10	Lunded cost of coal/ tigate (2+17)/(1+7)	Bs:/MT	2579.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	Blending Ratto (Dorsestic/Imported)		100-00	0.00	0.00	100.00	0.00	0.00	100.00	1,000,000	0.0
20	Weighted average cost of cost/ Ugsite (including Biomass)	Rs./MT		2579.06			2352.46				
200	Weighted average cost of coal/ Danite (excluding Biomass)	Res /AMT	2579.4			2352.4	Charles of the Control of the Contro		2305.7		
7)	QUALITY		-								_
11	GCV of Domestic Cual of the opening axial stock as per full of Coal Company	(ACM/Kg)	5045			4948	R. M.		4708		
77	GCV of Domestic Coal supplied as per bilt of Coal Company (in Basis)	BCW/Kg5	4866			4579			45.89		
23	GCV of Imported Coal of the opening stock as per bill Coal Company	BC4/Kg			- Total	-373			4,310.5		100
71	GCV of Imported Coal supplied as per bill Coal Company	(kOst/Kg)									
25	Weighted average GCV of coal/ Lignite as Billed (Including Rismand)	(Mal/Kg)		4048			4208			186.40	
De	Weighted average GCV of coal) Lignite as Billed (excluding Biomuss)	(RCal/Ng)	4948		1000	4708			4640	Account to the second	
26	GCV of Domestic Coal of the opening stock as received at Station	BEANG	4433			4331			4086		
27	GCV of Domestic Crisi tupolied as received at Station	(ACADAD)	4209			3968			100 000 000		
28	GCV of Imported Coal of opening stock as received at Station	ThCat/Kg)	4300		-	2395			1862		
29	OCV of Imported Coal of opening stock as received at Station	INCat/Ng5				-					
30	Weighted average GCV of coal/ lightle as Received including Ricerass)	(RUNUME)		621.1			1000		//	70000	
	manufactor management or or or community and references inscringing substitute)	100,000	494.4	4311	-	100	4086			3958	
304	Weighted average OCV of cost/Lights as fireweed lenducing blammed	Thend/igg	4311		47.00	4000			3958		





SANTAY SINHA
SIN HERITARE (MIRORORIFOGO SUF)
AND Commit Manager (U.F.C.G. Fush)
multiple fino, such / HTPC U.S. Commit

Shalabh Jain Digitally signed by Shalabh Jain Date: 2023.07.21 12:01:00 +05'30'

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a (alphaes)	

	Details of Sourcewise fi	unii fay commontantism of	Francis Floring				5 P	DRM-15
	Company Company	NTPC Limite		1				
	Name of the generating Station	Rihand STPF	Stage III					
_	Month		Oct-23	, 1	Nov-2	7.	Dec-2	5
23	Particulars	Unit	LDQ	HEO	LDO	HEO	LDO	HFO
	OPENING QUANTITY	Cital	- CO-CO	100	LUC	HIE	600	MO
	Denning Stock of Cit	- 0	5,770.92	0.00	4,863.92	0.00	4,481.92	0.0
	Asine of pancy	1 10	45,72,64,443	0.00	38,53,97,406	0.00	35.51.29.200	0.0
	QUANTITY			20,000	SHEED CONTROL	20,000	200108-00000	- 40
	Countity of Oil supplied by Oil Company	100	0.00	0.00	0.00	6.00	1095.63	-0.1
	Adjustment (+/-) in quantity supplied made by Dif Company	6.	0.00	0.00	0.00	0.00	0.00	- 03
	Coel supplied by Oil Company (3+4)	11.	0.00	0.00	0.00	0.00	1,035.63	.01
	Normative transit & Handling Inters	13	0.00	0.00	0.00	0.00	0.00	0.0
	Net Oil supplied (5 - 6)	10.	0.00	0.00	0.00	0.00	3.035.63	.0.0
	PRICE	1172			1,7200	-715	-administra	-
	Amount charged by the Oli Company	100	- 0	- 0	0	- 0	29,42,39,5260	
	Adjustment (* / -) in amount charged by DR Company	81	0	- 7	0	- 0	0	
	Handling Sampling and such other Similar charges	Pa Pa		- 0	0	- 0	0	
	Total Amount charged (8 +9+10)	PS.	0.00	- 0	0.		29.47.39.528	
	TRANSPORTATION	- Itu						
i	Transportation charges by Rail / Ship / Road Transport							
Ī	By Rail	- Re	- 0	0	06	- 0	0.	
T	By Road	Pa	- 0	O.	0	- 0	0	
Ī	By Ship	Ra	- 0	- 0	0.	- 0	0	
ij	Adjustment (v/-) in amount charged by railways / transport company	- Ita	- 0	. 0	0	- 0		
in	Demutcage charges, if any	Rs .	- 0	- 0	0	0	- 0	
Š	Cost of diesel in transporting Coal through MGR system, if applicable	H <sub>1</sub>	- 0	- 0	0	- 0	0	
	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	. 0	0	0	10	-0	
7	Total amount charged for Oil supplied including transportation (11 + 16)	Pa-	- 0		0	.0	29,42,39,538	
ij	TOTAL COST							
8	Landed Cost of Oil (LDCL/HFO) ( 2+17) / (1+7)	Rs/KL	79,235.98	0.00	79,235.98	0.00	86,380,39	0.4
	Glending Ratio	1000	1,00	0.00	1.00	0.00	1.00	0.0
10	Weighted average cost of OII		79,235.5	95	79,235.5	ot.	86,380.	19
ij	QUALITY							
ü	GCV of DIII of the opening stock as per bill of DII company	(Kcal/ltr)						
2	GCV of all supplied as per bill of all company	(Kcal/tar)						
3	GCV of Imported coal of the opening coal stock as per bit of coal company.	(Kcal/Ur)				-		
	OCV of Imported coal supplied as per fall of coal company	(Kcal/Ltr)						
	Weighted average GCV of Oil at billed	(Kcal/Ltr)				- 1		
	GCV of DH of the Opening stock as received at station	(Kcal/Lir)						
	GCV of Oil supplied	(Kcal/Ltr)	9362	0	9962	0	9302	- 2
	GCV of Imported roal of the Opening stock as received at station	(Xcal/Ltr)			Mark Co.		200	
	GCV of Imported cost supplied as received at station	(Kcal/Ltr)						1100
U	Weighted overage GCV of CII	(Kcal/tir)	9962		9962	100	9302	
	MOHD, IMRAN		-4419	S	halabh ain	2	Digital Shalab Date: 2	Digitally signed by Shalabh Jain Date: 2023.07.21 12:00:36 +05'30'



RHAND SUPER TH	ERMAL POWER STATION
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BAL	ANCE SHEET			( Amount in ? )
	As at	Note	31.03.2020	31.03.2019
100	ASSETS	The State of the	0.00	0.00
002	MANAGEMENT OF THE STATE OF THE		0.00	0.00
003	Non-Current Assets		0.00	0.00
004	Property, plant and equipment	2	56,738,901,510,10	58,943,024,921.02
005	Capital Work-in-Progress	3	823,654,175.83	525,168,443.09
800	Intergible Assets		19,560.18	134,643.21
007	Intangible Assets under Development	5	0.00	0.00
008	Investments in Subsidieries and Joint Ventures		0.00	0.00
009	Financial Assets		0.00	0.00
010	i) investments	*	0.00	0.00
011	ii) Trade receivables	8	0.00	0.00
012	M) Logra	9	07,279,112.63	102,118,254.34
013	iv) Other financial assets	10	0.00	0.00
014	Other non-current assets	15	2,510,570,969,29	1,730,829,371.70
015	Total non-current assets		80,160,025,348.23	61,302,275,633.52
016	Business and and Santana A.		0.00	0.00
017	Current Assets		0.00	0.00
018	Inventories	12	3,934,708,096,39	5.522,897,180.17
019	Financial assets		0.00	0.00
020	() Inwestments	(3	5.00	0.00
023	ii) Trade receivables	14	8,200,899.09	3,309,893.64
022	iii) Cash and cosh equivalents	15	435,387.91	3,393,233,30
023	iv) Bank balances other than cash and cash equivalents	15	0.00	0.00
024	v) Loans	12	70,942,728.42	71,017,501.66
025	vi) Other financial assets	18	681,977,881.50	177,325,079.59
026			0.00	0.00
627	Other Current Assets	19	841,228,747.85	493,844,905.72
028			0.00	0.00
029			0.00	0.00
000	Total Current Assets	LAVIN BURNEY	5,335,493,741,06	8,271,787,854.30
031	Regulatory deferral account debit balances	20	366,710,608.19	348,046,371.04
032	TOTAL ASSETS		55.862.229,597,48	67,922,109,858.86
034	EQUITY AND LIABILITIES		0.00	0.00
035	Equity		0.00	0.00
036	Equity Share capital	21	0.00	0.00
037	Other equity	22	154,382,607,667.96	142,905,372,241,66
040	Total equity		154,392,807,607,96	142,905,372,241.66
041	The same to the same of the same of		0.00	0.00
042	Liabilities		0.00	0.00
643	Non-Current Liabilities	The second later	0.00	0.00
044	Financial liabilities		0.00	0.00
045	i) Berrowings	23	0.00	0.00

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BAL	ANCE SHEET				( Amount in ₹)		
	As at	Note		Note 31.0			31.03.2019
046	ii) Trade payables			0.00	0.00		
047	Total cutatending does of micro and small enterprises	24		15,622,396.62	6,964,940.99		
048	<ul> <li>Total outstanding dues of creditors other than micro and small enterprises</li> </ul>	24		5,712,598.82	19,217,358.89		
049	III) Other financial liabilities	25		34,379,901.73	2,083,288.09		
050	Provisions	26		0.00	0.00		
061	Deferred Tax Liabilities (net)	-27		0.00	0.00		
052	Other non-current liabilities	28		0.00	0.00		
053				0.00	0.00		
054	Total non-current liabilities			55,714,897.17	28,265,588.97		
055		THE BANKS		0.00	0.00		
056	Current Liabilities			0.00	0.00		
057	Financial liabilities			0.00	5.00		
058	() Borrowings	29		0.00	0.00		
059	ii) Trade Payables			0.00	8.00		
060	Total outstanding dues of micro and small enterprises	30		347,533,123.95	277,086,480.33		
061	- Total outstanding dues of creditors other than micro and small enterprises	30		1,929,276,543.35	1,245,121,688.26		
062	iii) Other financial liabilities	31		2,174,040,601,24	2,424,995,497,91		
063	Other ourrent liabilities	32		98.045.489.01	86,740,893,19		
064	Provisions	33		8,480.817.99	7.624,629.10		
085	Corrent tax liabilities (net)	34		0.00	0.00		
066				0.00	0.00		
067	Sub Total			4,557,378,575.54	4,021,549,088.79		
068				0.00	0.00		
980	Deferred Revenue	36		1,990.729,000.00	1,250,045,000.00		
070	Regulatory deferral account credit balances	30		0.00	0.00		
071	Inter Unit Accounts			-95.134.398.483.19	-80,283,125,960.56		
072				0.00	0.00		
073	TOTAL EQUITY AND LIABILITIES	110000000	1 3	15,862,229,897.46	67,922,109,858.86		
074	Significant Accounting Policies as per Note 1	1		0.00	0.00		
075				0.00	0.00		
076	The accompanying notes 1 to 44 form an integral part of these financial statements.			0.00	9.00		
077				0.00	0.00		
078				0.00	0.00		
			1				

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Head of Finance)

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(Head of Unit)

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STA	TEMENT OF PROFIT AND LOSS			( Amount in ? )
	For the Year ended	Note	31.03.2020	31.03.2019
001	Revenue		0.00	0.00
002	Revenue from operations	37	50,565,358,913.88	50,048,258,348.89
003	Other income	38	3,035,476,371.88	1,974,635,183.87
005	Total Revenue	Apply Street Street	53,690,638,285.76	52,022,893,632.76
007	Exponses		0.00	0.00
008	Fixel including cost of captive coal	38A	30.418.545.545.58	28,586,776,745.41
009	Employee benefits expense	39	1,854,129,627,42	2.041,743,925.51
010	Electricity Purchased		0.00	0.00
011	Finance costs	40	2,130,434,794,21	2.232,706,359,72
012	Depreciation, amortization and imparment expense	41	3,914,630,907.64	4,107,321,614,55
013	The state of the s		0.00	0.00
014	Other expenses	42	2,900,984,769.93	2.581,295,071,21
015	CC expenses charge to revenue		865,358,462,00	838,528,155.26
016	Less: Unit expenses transferred to CC	9 (9 )	0.00	0.00
017	Total expenses		42,084,284,196.68	40,468,371,871.66
020	Profit before exceptional items & tax	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11,516,551,088.88	11,554,521,861.10
021	Exceptional items		0.00	0.00
324	Profit before tax		11,516,551,088.88	11,554,521,861.10
027	Tax expense:		0.00	0.00
028	Current tax		6.00	0.00
029	Deferred tax		0.00	0.00
030			0.00	0.00
031	Total Tax expense		0.00	0.00
032	Profit for the period before regulatory deferral account belances		11,516,551,088.88	11,654,621,861.10
033	Movement in regulatory deferral account balances		9.00	0.00
034	Regulatory deferred account - deferred		0.00	0.00
0.35	Others		16,012,648.15	63,815,031,15
036	Tax impact on Regulatory deferral account batteness		0.00	0.00
037	Movement in Regulatory deferrall account balances (Net of Tax)		16,012,648.15	63,815,031.15
038	Profit for the period/year		11,532,563,737.03	11,818,336,892.25
039	Other comprehensive income	11	0.00	0.00
040	(A) items that will not be reclassified to profit or loss		0.00	0.00
041	Net gains/(losses) on fair value of equity instruments through other comprehensive income		0.00	0.00
042	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
043	- Net ecturial gains/(losses) on defined benefit plans		-53,349,231.17	2,772,380,20
044	Income lax on above that will not be		0.00	0.00

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अपर मसम्बन्धक (वाणिज्यक) Add. General Manager (Commercial) रूप से की किल्पेट (ANTEL LANDER)



STA	TEMENT OF PROFIT AND LOSS			( Amount in ? )
	For the Year ended	Note	31.03.2020	31.03.2019
048	reclassified to profit or less		0.00	0.00
949	Other comprehensive income for the year, not of income tax.		-53,349,231.17	-2,772,380.20
060			0.00	9.00
001	Total Comprehensive Income for the year		11,479,214,505.86	11,615,564,312.05
065			0.00	0.00
066	Earnings per equity share:		0.00	0.00
067	Basic & Diluted		0.00	0.00
880	Significant Accounting Policies		0.00	0.00
069	Expenditure during construction period (Net)/Dev. of coal mines (net) 43 43A		0.00	0.00
070	The accompanying notes 1 to 44 form an undeprise part of these financial statements.		0.00	0.00

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(Heapot Finance)

(HDF

(Head of Unit)

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> अपर नामधन्यक (वाणितिका) Add. General Manager (Commercial) हम में के के क्रिकेट अपना अस्तान

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Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	354101950.25	0.00	914893.00	355016843.25	0.00	0.00	0.00	0.00	355016843.25	354101950.25
4 Right of Use	312564894.63	0.00	0.00	312564894.63	54156195.50	10521536.67	0.00	64677732.17	247887162.46	258408699.13
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 CBA Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	633382471.20	0.00	3064445.24	636446916.44	84717207.88	24819390.13	0.00	109536598.01	526910318.43	548665263.32
8 Building:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	1852956664.03	0.00	0.00	1852956664.03	250006943.20	62858014.88	0.00	312864958.08	1540091705.95	1602949720.83
11 Others	2526816498.43	0.00	7148785.46	2533965283.89	295814769.33	93611156.32	0.00	389425925.65	2144539358.24	2231001729.10
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	231168.13	0.00	0.00	231168.13	231168.13	0.00	0.00	231168.13	0.00	0.00
14 Water Supply, drainage & sewerage system	528872639.67	0.00	15099211.89	543971851.56	73117733.28	25176366.99	0.00	98294100.27	445677751.29	455754906.39
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	1331637054.56	0.00	0.00	1331637054.56	213397002.77	69391989.74	0.00	282788992.51	1048848062.05	1118240051.79
17 Railway siding	1528212.48	0.00	0.00	1528212.48	518982.35	64482.46	0.00	583464.81	944747.67	1009230.13
18 Earth dam reservoir	1456921.40	0.00	0.00	1456921.40	0.00	0.00	0.00	0.00	1456921.40	1456921.40
19 Plant and machinery(including associated civil works) Owned Asset	70060155454.71	1159352990.29	930582602.97	72150091047.97	18342069443.48	4015873615.81	(19444481.65) 2	22338498577.64	49811592470.33	51718086011.23



Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
20 Plant and machinery(including associated civil works) -Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Furniture and fixtures	162827901.39	11643132.75	(8157.00)	174462877.14	44691819.20	11307625.48	(6082.95)	55993361.73	118469515.41	118136082.19
22 Assets under 5 Km Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Vehicles - Owned	6558165.35	0.00	0.00	6558165.35	1447799.10	579121.79	0.00	2026920.89	4531244.46	5110366.25
24 Vehicles - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Office equipment	84012276.10	3589852.00	108075.12	87710203.22	35082454.15	7205598.19	(6379.98)	42281672.36	45428530.86	48929821.95
26 EDP, WP machines and satcom equipment	90601420.49	1595454.00	(3450231.96)	88746642.53	60222035.59	9917758.55	(3461317.64)	66678476.50	22068166.03	30379384.90
27 Construction equipments	65110895.86	0.00	0.00	65110895.86	21512359.27	3506656.19	0.00	25019015.46	40091880.40	43598536.59
28 Electrical Installations	320745742.54	10354500.00	(2700.00)	331097542.54	63152266.13	30831333.36	0.00	93983599.49	237113943.05	257593476.41
29 Communication equipments	31934747.30	0.00	0.00	31934747.30	18196504.33	2942944.88	0.00	21139449.21	10795298.09	13738242.97
30 Hospital equipments	23064355.97	339187.00	0.00	23403542.97	5041564.24	1261479.28	0.00	6303043.52	17100499.45	18022791.73
31 Laboratory and workshop equipments	146083529.77	0.00	(155143.00)	145928386.77	28241795.31	7749500.18	0.00	35991295.49	109937091.28	117841734.46
32 Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Assets of Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 (Less):-Adjusted from fly ash utilisation reserve fund	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	78534642964.26	1186875116.04	953301781.72	80674819862.02	19591618043.24	4377618570.90	(22918262.22)	23946318351.92	56728501510.10	58943024921.02
Grand Total Prev Year (Tangible)	76513713413.11	1766484574.63	254444976.52	78534642964.26	15142568138.78	4550839731.18	(101789826.72)	19591618043.24	58943024921.02	61371145274.33

Details of Adjustmer	ts of Gross Bloc	k and Depreciati	on/Amortization	
Particulars	Gross	Block	Depreciatio	n/Amortization
	Tangible As At: 31.03.2020	Tangible As At: 31.03.2019	Tangible As At: 31.03.2020	Tangible As At: 31.03.2019
Disposal of assets	(2114197.00)	(5304388.79)	(2071876.78)	(4951981.07)
Retirement of assets	(69448632.25)	(138103959.79)	(19577026.64)	(81828236.73)
Cost adjustments	1021726514.10	421175458.15	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	3138096.87	(23322133.05)	(1269358.80)	(15009608.92)
Others	0.00	0.00	0.00	0.00
TOTAL	953301781.72	254444976.52	(22918262.22)	(101789826.72)



#### Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2019	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2020
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads		3064445.24	(3064445.24)		
4	Piling and foundation					
5	Buildings:					
6	Main plant		12776883.21	(12776883.21)		
7	Others	3128243.68	8015025.53	(7148785.46)		3994483.75
8	Temporary erection					
9	Water supply, drainage and sewerage system		8662414.61	(5712414.61)		2950000.00
10	Hydraulic works, barrages, dams, tunnels and power channel					
11	MGR track and signalling system		20000000.00			20000000.00
12	Railway siding					
13	Earth dam reservoir					
14	Plant and equipment	423512011.96	1222073063.20	(412613876.96)	516109085.59	716862112.61
15	Furniture and fixtures					
16	Vehicles					
17	Office equipment					
18	EDP/WP machines & satcom equipment		1367798.00			1367798.00
19	Construction equipments					
20	Electrical installations		10354500.00		10354500.00	
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop equipments					
24	Assets under 5Km Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey,Investigation,Consultancy & Supervision Cha	2987667.50				2987667.50
28	Difference in exchange on foreign currency loans					

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#### Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2019	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2020
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commissioning expenses (net)					
31	ExpPendAlloca-oth ex attribut Project					
32	Expenditure During Construction Period (net)*	7991487.00	14502884.03	(6718199.59)		15776171.44
33	LESS : Allocated to related works		15776171.44			15776171.44
34	LESS : Provision for Unservicable works					
35	Construction stores (At Cost)					
36	Steel	31435733.98		(2612252.04)		28823481.94
37	Cement	6722611.99		(4568450.33)		2154161.66
38	Others	53975278.44	65047466.87	(70421303.71)		48601441.60
39	Sub-total	92133624.41	65047466.87	(77602006.08)		79579085.20
40	LESS : Provision for shortages	3584591.46		502379.77		4086971.23
41	Sub-total	88549032.95	65047466.87	(78104385.85)		75492113.97
42	Total CWIP	526168443.09	1350088309.25	(526138990.92)	526463585.59	823654175.83
43						
44						
45	PREVIOUS YEAR TOTAL	1117191125.22	1406540908.81	(497169141.34)	999861027.04	526168443.09

2

Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right of Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 -Software	4773867.26	0.00	0.00	4773867.26	4639223.95	115063.13	0.00	4754287.08	19580.18	134643.31
Grand Total (Intangible)	4773867.26	0.00	0.00	4773867.26	4639223.95	115063.13	0.00	4754287.08	19580.18	134643.31
Grand Total Prev Year (Intangible)	4773867.26	0.00	0.00	4773867.26	4516527.46	122696.49	0.00	4639223.95	134643.31	257339.80

## Note forming part of Balance Sheet Note-4 Non Current Assets- Intangible Assets Business Area :1005

Details of Adjustmen	ts of Gross Bloc	k and Depreciati	on/Amortization	
Particulars	Gross	Block	Depreciation	n/Amortization
	InTangible As At: 31.03.2020	InTangible As At: 31.03.2019	InTangible As At: 31.03.2020	InTangible As At: 31.03.2019
Disposal of assets	0.00	0.00	0.00	0.00
Retirement of assets	0.00	0.00	0.00	0.00
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00



#### Note forming part of Balance Sheet Note 5: Intangible Assets under Development Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2019	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2020
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Others					
4	Exploration and Evaluation Expentiture - Coal Mini					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					



#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2020	31.03.2019
001	NON CURRENT INVESTMENTS- Investments in subsidiaries and joint ventures			0.00	0.00
012	Equity Instruments - Unquoted-(fully paid up unless otherwise stated, at cost)			0.00	0.00
013	Subsidiary Companies			0.00	0.00
014	Patratu Vidyut Utpadan Nigam Ltd.			0.00	0.00
015	NTPC Electric Supply Company Ltd.			0.00	0.00
016	NTPC Vidyut Vyapar Nigam Ltd.			0.00	0.00
017	Nabinagar Power Generating Company Ltd.			0.00	0.00
018	Kanti Bijlee Utpadan Nigam Ltd.			0.00	0.00
019	Bhartiya Rail Bijlee Company Ltd.			0.00	0.00
020	NTPC Mining Ltd (NML)			0.00	0.00
021	THDC India Ltd.			0.00	0.00
022	NEEPCO LTD.			0.00	0.00
023				0.00	0.00
024				0.00	0.00
025				0.00	0.00
026				0.00	0.00
027				0.00	0.00
028				0.00	0.00
029				0.00	0.00
030	Sub Total			0.00	0.00
055	Joint Venture Companies			0.00	0.00
056	Utility Powertech Ltd.			0.00	0.00
057	NTPC GE Power Services Pvt.Ltd.			0.00	0.00
058	NTPC-SAIL Power Company Ltd.			0.00	0.00
059	NTPC-Tamil Nadu Energy Company Ltd.			0.00	0.00
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00

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#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2020	31.03.2019
61	Aravali Power Company Private Ltd.			0.00	0.00
	Audum Ower Company i Twate Etc.				
62				0.00	0.00
63	NTPC BHEL Power Projects Private Ltd.			0.00	0.00
64	Meja Urja Nigam Private Limited			0.00	0.00
65	BF-NTPC Energy Systems Ltd.			0.00	0.00
66				0.00	0.00
67	Nabinagar Power Generating Company Ltd.			0.00	0.00
68	Transformer and Electrical Kerala Ltd.			0.00	0.00
69	National High Power Test Labortory Private			0.00	0.00
70	Ltd.			0.00	0.00
71	CIL NTPC Urja Private Ltd.			0.00	0.00
72	Anushakti Vidhyut Nigam Ltd.			0.00	0.00
73	Energy Efficiency Services Ltd.			0.00	0.00
74				0.00	0.00
75	Trincomalee Power Company Ltd.			0.00	0.00
76	Bangladesh-India Friendship Power Company (Pvt.) Ltd.			0.00	0.00
77	Hindustan Urvarak & Rasayan Limited			0.00	0.00
78	Konkan LNG Pvt. Ltd			0.00	0.00
79				0.00	0.00
81	Sub Total			0.00	0.00
09	Aggregate amount of impairment in the value			0.00	0.00
10	of investments			0.00	0.00
11				0.00	0.00
34	Total			0.00	0.00
35	Details of Investments			0.00	0.00
	Aggregate amount of Unquoted Investments			0.00	0.00

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#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹)

-					
<u> </u>	As at	No. of shares	Face value	31.03.2020	31.03.2019
				0.00	0.00
				0.00	0.00
				0.00	0.00
				0.00	0.00
				0.00	0.00
٧	Valuation of Investments as per Note 1.			0.00	0.00
				0.00	0.00
				0.00	0.00
				0.00	0.00

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### NOTE NO. 7 TO THE FS-NCA-INVESTMENTS

( Amount in ₹ )

	As at	No. of shares	Face value	31.03.2020	31.03.2019
01	Non-current financial assets (investments)			0.00	0.00
06	Long Term - Trade			0.00	0.00
07	Equity Instruments (fully paid up-unless otherwise stated)			0.00	0.00
80	Quoted			0.00	0.00
09	Joint Venture Companies			0.00	0.00
10	PTC India Ltd.			0.00	0.00
70	International Coal Ventures Private Ltd.			0.00	0.00
75	BF-NTPC Energy Systems Ltd.			0.00	0.00
98				0.00	0.00
10	Cooperative Societies			0.00	0.00
11	Sub Total			0.00	0.00
12	Aggregate amount of impairment in the value of investments	)		0.00	0.00
15	Total			0.00	0.00
20				0.00	0.00
46	NTPC Employees Consumers and Thrift Co-operative Society Ltd. Korba			0.00	0.00
47	NTPC Employees Consumers and Thrift Cooperative Society Ltd. RSTPP			0.00	0.00
48	NTPC Employees Consumers Cooperative Society Ltd. Farakka			0.00	0.00
49	NTPC Employees Consumers Cooperative Society Ltd. Vindhyachal			0.00	0.00
50	NTPC Employees Consumers Cooperative Society Ltd. Anta			0.00	0.00
51	NTPC Employees Consumers Cooperative Society Ltd. Kawas			0.00	0.00
52	NTPC Employees Consumers Cooperative	е		0.00	0.00

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NOTE NO. 8 TO THE FS-NCA-TRADE RECEIVABLES ( Amount in ₹) 31.03.2020 31.03.2019 001 Non-current financial assets - Trade receivables 0.00 0.00 002 Unsecured, considered good 0.00 0.00 With significant increase in Credit Risk 0.00 0.00 003 0.00 004 Credit impaired 0.00 005 0.00 0.00 006 Total 0.00 0.00

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NOT	E NO. 9 TO THE FS-NCA-LOANS		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	Loans (Non Current)	0.00	0.00
004	Related Parties	0.00	0.00
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
800	Credit impaired	0.00	0.00
009		0.00	0.00
010	Employees(including accrued interest)	0.00	0.00
011	Secured	78,002,193.59	74,458,322.58
012	Unsecured	48,524,350.45	59,457,513.24
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	Secured	21,268,252.60	21,325,766.04
017	Unsecured	7,979,178.61	10,471,815.44
018	Loan to State Government in settlement of dues from customers (Unsecured)	0.00	0.00
019	Others	0.00	0.00
020	Secured	0.00	0.00
021	Unsecured	0.00	0.00
022	With significant increase in Credit Risk	0.00	0.00
023	Credit impaired	0.00	0.00
024	Less: Allowance for credit impaired loans	0.00	0.00
025	Sub Total	97,279,112.83	102,118,254.34
025 026	Sub Total	<b>97,279,112.83</b> 0.00	<b>102,118,254.34</b> 0.00
	Sub Total  Total		
026		0.00	0.00
026 027		97,279,112.83	0.00 <b>102,118,254.34</b>
026 027 028		0.00 97,279,112.83 0.00	0.00 <b>102,118,254.34</b> 0.00
026 027 028 029	Total  Due from Directors and Officers of the	0.00 97,279,112.83 0.00 0.00	0.00 102,118,254.34 0.00 0.00
026 027 028 029 030	Total  Due from Directors and Officers of the Company	0.00 97,279,112.83 0.00 0.00 0.00	0.00 102,118,254.34 0.00 0.00 0.00
026 027 028 029 030	Due from Directors and Officers of the Company Directors	0.00 97,279,112.83 0.00 0.00 0.00	0.00 102,118,254.34 0.00 0.00 0.00
026 027 028 029 030	Due from Directors and Officers of the Company Directors	0.00 97,279,112.83 0.00 0.00 0.00	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032	Total  Due from Directors and Officers of the Company Directors Officers	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033	Total  Due from Directors and Officers of the Company Directors Officers  Loans to related parties include:	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034	Total  Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035	Total  Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036	Total  Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036 037	Total  Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036 037 038 039 054	Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies iv)Others	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036 037 038 039 054 055	Total  Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies iv)Others  Other loans represent loans given to a) APIIC	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036 037 038 039 054 055 060 061	Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies iv)Others  Other loans represent loans given to	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036 037 038 039 054 055 060 061 062	Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies iv)Others  Other loans represent loans given to a) APIIC  RPD i)Key management personel	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036 037 038 039 054 055 060 061 062 063	Total  Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies iv)Others  Other loans represent loans given to a) APIIC  RPD i)Key management personel ii)Subsidiary companies	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00
026 027 028 029 030 031 032 033 034 035 036 037 038 039 054 055 060 061 062	Due from Directors and Officers of the Company Directors Officers  Loans to related parties include: i)Key management personel ii)Subsidiary companies iii)Joint Venture companies iv)Others  Other loans represent loans given to a) APIIC  RPD i)Key management personel	0.00 97,279,112.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 102,118,254.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 9 TO THE FS-NCA-LOANS

( Amount in ₹)

	As at	31.03.2020	31.03.2019
066	Total	0.00	0.00

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NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS ( Amount in ₹) 31.03.2020 31.03.2019 001 Other Financial Assets (non current) 0.00 0.00 002 0.00 0.00 003 0.00 0.00 Share application money pending allotment in (Subsidiary Companies): 0.00 004 NTPC Electric Supply Company Ltd. 0.00 005 NTPC Vidyut Vyapar Nigam Ltd. 0.00 0.00 006 Nabinagar Power Generating Company Ltd. 0.00 0.00 007 Kanti Bijlee Utpadan Nigam Ltd. 0.00 0.00 800 Bhartiya Rail Bijlee Company Ltd. 0.00 0.00 009 Patratu Vidyut Utpadan Nigam Ltd. 0.00 0.00 010 NTPC Mining Limited 0.00 0.00 THDC Ltd. 011 0.00 0.00 **NEEPCO Ltd** 012 0.00 0.00 013 0.00 0.00 014 Total 0.00 0.00 015 Share application money pending allotment 0.00 0.00 (Joint Venture) Utility Powertech Ltd. 0.00 0.00 016 017 NTPC GE Power Services Pvt.Ltd. 0.00 0.00 018 NTPC-SAIL Power Company Ltd. 0.00 0.00 019 NTPC-Tamil Nadu Energy Company Ltd. 0.00 0.00 020 Ratnagiri Gas & Power Private Ltd. 0.00 0.00 021 Aravali Power Company Private Ltd. 0.00 0.00 022 0.00 0.00 023 NTPC BHEL Power Projects Private Ltd. 0.00 0.00 024 0.00 Meja Urja Nigam Private Limited 0.00 025 BF-NTPC Energy Systems Ltd. 0.00 0.00 026 0.00 Anushakti Vidhyut Nigam Ltd. 0.00 027 Nabinagar Power Generating Company Ltd. 0.00 0.00 028 Energy Efficiency Services Ltd. 0.00 0.00 029 National High Power Test Labortory Private Ltd. 0.00 0.00 030 0.00 0.00 031 CIL NTPC Urja Private Ltd. 0.00 0.00 032 Trincomalee Power Company Ltd. 0.00 0.00 033 Hindustan Urvarak & Rasayan Limited 0.00 0.00 034 Bangladesh-India Friendship Power Company 0.00 0.00 Private Ltd. **Sub Total** 0.00 035 0.00 036 0.00 0.00 Claims Recoverable 037 0.00 0.00 Finance Lease Recoverable 038 0.00 0.00 039 Mine Closure Deposit 0.00 0.00 040 0.00 0.00

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Total

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0.00

0.00



NOT	E NO. 11 TO THE FS-NCA-OTHER NON-CURRENT	( Amount in ₹ )	
	As at	31.03.2020	31.03.2019
001	Other Non-current Assets	0.00	0.00
002		0.00	0.00
003	CAPITAL ADVANCES	0.00	0.00
004	Secured	0.00	0.00
005	Unsecured	0.00	0.00
006	Covered by Bank Guarantee	323,177,345.00	297,201,725.00
007	Others	89,609,598.63	113,243,558.35
800	Considered doubtful	0.00	0.00
009	Less: Allowance for bad & doubtful advances	0.00	0.00
010	Sub-Total	412,786,943.63	410,445,283.35
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	Security deposits	1,436,400.00	1,436,400.00
019	Advances to Related parties	0.00	0.00
022	Advances to Contractors & Suppliers	0.00	0.00
023	Secured	0.00	0.00
024	Unsecured	0.00	0.00
025	Considered Doubtful	0.00	0.00
026	Less: Allowance for bad & doubtful advances	0.00	0.00
027	Sub Total	1,436,400.00	1,436,400.00
039	Advance tax & tax deducted at source	1,374,625.00	321,125.00
040	Less:- Provision for current tax	0.00	0.00
041		0.00	0.00
042	Sub Total	1,374,625.00	321,125.00
043	Deferred Payroll Expenses (Secured)	18,035,323.47	18,756,382.73
044	Deferred Payroll Expenses (Unsecured)	5,842,677.19	7,851,180.68
045	Sub Total	23,878,000.66	26,607,563.41
046	Deferred Foreign Currency Fluctuation Asset	2,071,095,000.00	1,292,019,000.00
048	Total	2,510,570,969.29	1,730,829,371.76
049		0.00	0.00
050		0.00	0.00
061	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
063		0.00	0.00
064	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
065		0.00	0.00
066	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
067	Aravali Power Company Private Ltd.	0.00	0.00
068	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
069	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
070	Meja Urja Nigam Private Limited	0.00	0.00
071	Nabinagar Power Generating Company Ltd.	0.00	0.00
072	National High Power Test Labortory Private Ltd.	0.00	0.00
074	CIL NTPC Urja Private Ltd.	0.00	0.00
076		0.00	0.00
077	Related Party (Adv)	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

( Amount in ₹ )

	As at	31.03.2020	31.03.2019
078	Key Management personel	0.00	0.00
079	Subsidiary companies	0.00	0.00
080	Joint Venture companies	0.00	0.00
081	Contractors	0.00	0.00
082	Others	0.00	0.00
084		0.00	0.00
085	Total	0.00	0.00

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NOT	E NO. 12 TO THE FS-CA-INVENTORIES	( Amount in ₹ )		
	As at	31.03.2020	31.03.2019	
001	INVENTORIES	0.00	0.00	
002		0.00	0.00	
003	Coal	530,693,477.72	2,088,231,631.33	
004	Fuel oil	213,916,508.70	276,978,893.24	
005	Naphtha	0.00	0.00	
006	Stores and spares	2,507,691,473.02	2,466,139,085.48	
007	Chemicals & consumables	82,869,440.00	67,098,480.64	
800	Loose tools	1,481,824.88	1,681,496.63	
009	Steel Scrap	4,556,896.18	4,826,650.77	
010	Others*	618,290,642.20	644,360,919.29	
011	Sub Total	3,959,500,262.70	5,549,317,157.38	
012	Less: Provision for shortages	1,959,334.78	4,052,394.00	
013	Less: Provision for obsolete/	22,832,831.53	22,367,583.21	
	unservicable/dimunition in value of surplus inventory			
014		0.00	0.00	
015	Total	3,934,708,096.39	5,522,897,180.17	
016	Inventories include material in transit	0.00	0.00	
017	Coal	0.00	0.00	
018	Fuel oil	0.00	0.00	
019	Naphtha	0.00	0.00	
020	Stores and spares	24,889,533.24	34,306,383.44	
021	Chemicals & consumables	30,471.33	0.00	
022	Loose tools	0.00	0.00	
023	Others	527,190.00	7,458.00	
024		0.00	0.00	
025	Inventory items other than steel scrap have been valued considering Note 1. Steel scrap has been valued at estimated realisable value.	0.00	0.00	

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#### NOTE NO. 13 TO THE FS-CA-INVESTMENTS

( Amount in ₹ )

	As at	No. of shares	Face value	31.03.2020	31.03.2019
001	CURRENT INVESTMENTS			0.00	0.00
002	(Valuation as per Note 1)			0.00	0.00
003				0.00	0.00
033	Investment in Mutual Funds (Details as under)			0.00	0.00
034	SBI-Magnum Insta Cash Fund-DDR			0.00	0.00
035	SBI Premier Liquid Fund Super-IP-DDR			0.00	0.00
036	SBI-SHF Ultra Short Term Fund-IP-DDR			0.00	0.00
037	UTI Money Market- IP-Direct-Growth			0.00	0.00
038	IDBI-Liquid plan- Direct-Growth			0.00	0.00
039	Canara Robeco Liquid Fund Super-IP-DDR			0.00	0.00
040	Canara Robeco Treasury Advantage Fund Super-IP-DDR			0.00	0.00
041	IDBI Liquid Fund-DDR			0.00	0.00
042	SBI Premier Liquid fund-Direct DDR (Ash Fund)			0.00	0.00
043	UTI Liquid CashPlan - IP - DDR (Ash Funds)			0.00	0.00
044	IDBI Liquid Fund - DDR - (Ash Funds)			0.00	0.00
045				0.00	0.00
046	Sub Total			0.00	0.00
047				0.00	0.00
052	Unquoted Investments			0.00	0.00
054				0.00	0.00
066	TOTAL			0.00	0.00
067				0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

( Amount in ₹)

NOI	L NO. 14 TO THE TS-CA-TRADE RECEIVABLES	( Allount III \ )		
	As at	31.03.2020	31.03.2019	
001	TRADE RECEIVABLES (current)*	0.00	0.00	
002		0.00	0.00	
003	Secured,Considered Good	0.00	0.00	
004	Unsecured, considered good	6,200,899.09	3,309,893.64	
005	With significant increase in Credit Risk	0.00	0.00	
006	Credit impaired	0.00	0.00	
007	Sub-Total	6,200,899.09	3,309,893.64	
800	Total _	6,200,899.09	3,309,893.64	
009	Less: Allowance for credit impaired receivables	0.00	0.00	
010	Total _	6,200,899.09	3,309,893.64	
011		0.00	0.00	
013	* After adjustment for Unbilled Revenue	0.00	0.00	
014	Long-term trade receivables	0.00	0.00	
015		0.00	0.00	
016		0.00	0.00	

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NOT	E <u>NO. 15 TO THE FS-CA-CASH AND CASH EQUIV</u>	ALENTS	( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	CASH & BANK BALANCES	0.00	0.00
002	Cash & Cash Equivalents	0.00	0.00
003	Balances with Banks	435,387.81	3,143,233.30
004	Cheques & Drafts on hand	0.00	250,000.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	0.00	0.00
007	Bank deposits with original maturity upto three months	0.00	0.00
800	Balances with RBI	0.00	0.00
009		0.00	0.00
010	Total	435,387.81	3,393,233.30

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NOT	E NO. 16 TO THE FS-CA-BANK BALANCES OTHER THAN	CASH AND CASH EQUIVALENTS	(Amount in ₹)
	As at	31.03.2020	31.03.2019
001	Other Bank Balances	0.00	0.00
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	SubTotal	0.00	0.00
005	Interest accrued on deposits	0.00	0.00
006		0.00	0.00
007	Total	0.00	0.00
800		0.00	0.00
009	Earmarked balances with banks consist of :	0.00	0.00
010	Unpaid dividend account balance	0.00	0.00
011	Towards public deposit repayment reserve	0.00	0.00
012	Towards redemption of bonds due for repayment within one year	0.00	0.00
013	Security with Government/other authorities	0.00	0.00
014	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
015	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund	0.00	0.00
016	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
017	Deposits with original maturity upto three months as per court orders	0.00	0.00
018	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
020	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
021	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
022	Others	0.00	0.00
023		0.00	0.00
024	Total	0.00	0.00
025		0.00	0.00
026	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
027	Bank deposits with original maturity of more than three months but not more than twelve monthsother than earmarked	0.00	0.00
028	Earmarked bank balances (current account)	0.00	0.00

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As at		E NO. 17 TO THE FS-CA-LOANS		( Amount in ₹ )
001         Current financial assets - Loans         0.00         0.00           002         Loans (current)-including interest accrued         0.00         0.00           004         Related Parties         0.00         0.00           005         Secured         0.00         0.00           007         With significant increase in Credit Risk         0.00         0.00           008         Credit impaired         0.00         0.00           010         Secured         18,561,561,43         19,034,311,90           011         Secured         52,381,166.99         51,983,249,98           012         Unsecured         52,381,166.99         51,983,249,98           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dustries of conditions and conditions of the condition condition conditions and conditions are conditions.         0.00         0.00           017         Secured         0.00         0.00         0.00           018         Others         0.00         0.00         0.00			31.03.2020	
004 Related Parties         0.00         0.00           005 Secured         0.00         0.00           006 Un-Secured         0.00         0.00           007 With significant increase in Credit Risk         0.00         0.00           009 Formal Increase in Credit Risk         0.00         0.00           009 Fully Secured         18,561,561,43         19,034,311,90           011 Unsecured         18,561,561,43         19,034,311,90           012 Unsecured         52,381,166.99         51,983,249,98           013 With significant increase in Credit Risk         0.00         0.00           015 Less: Employee Loans Discounting         0.00         0.00           016 Coan to State Government in settlement of drug from customers (Unsecured)         0.00         0.00           017 Emore customers (Unsecured)         0.00         0.00           018 Others         0.00         0.00           019 Secured         0.00         0.00           010 Insecured         0.00         0.00	001			
005         Secured         0.00         0.00           006         Un-Secured         0.00         0.00           07         With significant increase in Credit Risk         0.00         0.00           08         Credit impaired         0.00         0.00           010         Employees         0.00         0.00           011         Secured         18,581,581.43         19,034,311.90           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Others         0.00         0.00           019         Secured         0.00         0.00           019         Secured         0.00         0.00           019         Secured         0.00         0.00           019         Secured         0.00         0.00           021         With significant increase in Credit Risk         0.00	002	Loans (current)-including interest accrued	0.00	0.00
006         Un-Secured         0.00         0.00           007         With significant increase in Credit Risk         0.00         0.00           008         Credit impaired         0.00         0.00           009         0.00         0.00           010         Employees         0.00         0.00           011         Secured         18,561,561,43         19,034,311,90           012         Unsecured         52,381,166.99         51,983,249,98           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         Cost State Government in settlement of dues from customers (Unsecured)         0.00         0.00           018         Secured         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00	004	Related Parties	0.00	0.00
007         With significant increase in Credit Risk         0.00         0.00           008         Credit impaired         0.00         0.00           009         0.00         0.00           010         Employees         0.00         0.00           011         Secured         18,561,561.43         19,034,311.90           012         Unsecured         52,381,166.99         51,983,249.98           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dus from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Total (Loans)         70,942,728.42         71,917,561.88           026         Directo	005	Secured	0.00	0.00
008         Credit impaired         0.00         0.00           009         Employees         0.00         0.00           011         Secured         18,561,561,43         19,034,311,90           012         Unsecured         52,381,166,99         51,983,249,98           13         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Leas: Employee Loans Discounting         0.00         0.00           016         Loan State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         Credit impaired         0.00         0.00           018         Others         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Credit impaired loans         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88	006	Un-Secured	0.00	0.00
008         Credit impaired         0.00         0.00           009         Employees         0.00         0.00           011         Secured         18,561,561,43         19,034,311,90           012         Unsecured         52,381,166,99         51,983,249,98           13         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Leas: Employee Loans Discounting         0.00         0.00           016         Loan State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         Credit impaired         0.00         0.00           018         Others         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Credit impaired loans         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88	007	With significant increase in Credit Risk	0.00	0.00
009         Employees         0.00         0.00           011         Secured         18,661,561,43         19,034,311,90           012         Unsecured         52,381,166,99         51,983,249,98           013         With significant increase in Credit Risk         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           018         Others         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Total (Loans)         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728,42         71,917,561,88           026         Use from Directors and Officers of the Company         0.00         0.00           027         Que from Directors and Officers of the Company	800		0.00	0.00
010         Employees         0.00         0.00           011         Secured         18,561,561,43         19,034,311,90           012         Unsecured         52,381,166,99         51,983,249,98           013         With significant increase in Credit Risk         0.00         0.00           014         Credit Impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Total (Loans)         70,942,728.42         71,017,561.88           026         Directors         0.00         0.00           027         Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029	009	·	0.00	0.00
011         Secured         18,561,561.43         19,034,311.90           012         Unsecured         52,381,166.99         51,983,249.98           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Others         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Less: Allowance for credit impaired loans         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         Directors         0.00         0.00 <td>010</td> <td>Employees</td> <td>0.00</td> <td></td>	010	Employees	0.00	
012 Unsecured         52,381,166.99         51,983,249,98           013 With significant increase in Credit Risk         0.00         0.00           14 Credit impaired         0.00         0.00           015 Less : Employee Loans Discounting         0.00         0.00           016 Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017 Secured         0.00         0.00           018 Others         0.00         0.00           020 Unsecured         0.00         0.00           021 With significant increase in Credit Risk         0.00         0.00           022 Credit impaired         0.00         0.00           023 Credit impaired         0.00         0.00           024 Less: Allowance for credit impaired loans         0.00         0.00           025 Total (Loans)         70,942,728.42         71,017,561.88           026 Directors         0.00         0.00           027 Due from Directors and Officers of the Company         0.00         0.00           028 Directors         0.00         0.00           030 Ufficers         0.00         0.00           031 Loans to related parties include:         0.00         0.00           032 Illy with yenture companies		• •		
013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           15         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         Due from Directors and Officers of the Company         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         Uniform Directors and Officers of the Companies         0.00	012	Unsecured		
014	013	With significant increase in Credit Risk		
015         Less : Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00           018         Secured         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,917,561.88           026         Due from Directors and Officers of the Company         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         Loans to related parties include:         0.00         0.00           031         Loans to				
016 clues from customers (Unsecured)         0.00 clues from customers (Unsecured)         0.00 clues from customers (Unsecured)           017 clues from customers (Unsecured)         0.00 clues         0.00 clues           018 clued clues from customers (Unsecured)         0.00 clues         0.00 clues           020 Unsecured clues         0.00 clues         0.00 clues           021 With significant increase in Credit Risk clues         0.00 clues         0.00 clues           022 Credit impaired clues         0.00 clues         0.00 clues           023 Less: Allowance for credit impaired loans clues         0.00 clues         0.00 clues           025 Total (Loans) 70,942,728.42 71,017,561.88         0.00 clues         0.00 clues           025 Une from Directors and Officers of the company         0.00 clues         0.00 clues           028 Directors         0.00 clues         0.00 clues           029 Officers         0.00 clues         0.00 clues           030 University clues         0.00 clues         0.00 clues           031 Loans to related parties include:         0.00 clues         0.00 clues           032 If Key management personel         0.00 clues         0.00 clues           033 If Wey management personel         0.00 clues         0.00 clues           034 KBUNL         0.00 clues         0.00 clues <td>015</td> <td>•</td> <td>0.00</td> <td>0.00</td>	015	•	0.00	0.00
017         Others         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,72842         71,017,561.88           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         jiKey management personel         0.00         0.00           033         jiKey management personel         0.00         0.00           034         KBUNL         0.00         0.00	016	Loan to State Government in settlement of	0.00	0.00
018         Others         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         0.00         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           039         Officers         0.00         0.00           030         I)Key management personel         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         IjKey management personel         0.00         0.00           033         IjSubsidiary companies         0.00         0.00           036         NVN         0.00	017	,	0.00	0.00
019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         0.00         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVVN         0.00         0.00	018	Others	0.00	
020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         Due from Directors and Officers of the Company         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         jikey management personel         0.00         0.00           033         iijSubsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVN         0.00         0.00           037         iii)Joint Venture companie			0.00	
021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         0.00         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVN         0.00         0.00           037         iiijJoint Venture companies         0.00         0.00      <				
022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         0.00         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         j/Key management personel         0.00         0.00           033         ij/Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         P/UNL         0.00         0.00           036         NVVN         0.00         0.00           037         iii/Joint Venture companies         0.00         0.00           038         iv/Others         0.00         0.00           059         RPD         0.00         0.00           060         j/Key management persone				
023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies		-		
024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         70,942,728.42         71,017,561.88           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           039         RPD         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary com				
025         Total (Loans)         70,942,728.42         71,017,561.88           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         i)Key management personel         0.00         0.00           062         iii)Joint Venture companies		Less: Allowance for credit impaired loans		
026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         0.00         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies         0.00         0.00           062         iii)Joint Venture companies         0.00         0.00           063         iv)Others<				
027 Due from Directors and Officers of the Company         0.00         0.00           028 Directors         0.00         0.00           029 Officers         0.00         0.00           030 Loans to related parties include:         0.00         0.00           031 Loans to related parties include:         0.00         0.00           032 i)Key management personel         0.00         0.00           033 ii)Subsidiary companies         0.00         0.00           034 KBUNL         0.00         0.00           035 PVUNL         0.00         0.00           036 NVVN         0.00         0.00           037 iii)Joint Venture companies         0.00         0.00           038 iv)Others         0.00         0.00           059 RPD         0.00         0.00           060 i)Key management personel         0.00         0.00           061 ii)Subsidiary companies         0.00         0.00           062 iii)Joint Venture companies         0.00         0.00           063 iv)Others         0.00         0.00		( )		
028       Directors       0.00       0.00         029       Officers       0.00       0.00         030       0.00       0.00       0.00         031       Loans to related parties include:       0.00       0.00         032       i)Key management personel       0.00       0.00         033       ii)Subsidiary companies       0.00       0.00         034       KBUNL       0.00       0.00         035       PVUNL       0.00       0.00         036       NVVN       0.00       0.00         037       iii)Joint Venture companies       0.00       0.00         038       iv)others       0.00       0.00         059       RPD       0.00       0.00         060       i)Key management personel       0.00       0.00         061       ii)Subsidiary companies       0.00       0.00         062       iii)Joint Venture companies       0.00       0.00         063       iv)Others       0.00       0.00         064       0.00       0.00				
030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies         0.00         0.00           062         iii)Joint Venture companies         0.00         0.00           063         iv)Others         0.00         0.00           064         0.00         0.00	028		0.00	0.00
030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         PVUNL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies         0.00         0.00           062         iii)Joint Venture companies         0.00         0.00           063         iv)Others         0.00         0.00           064         0.00         0.00	029	Officers	0.00	0.00
032 i)Key management personel       0.00       0.00         033 ii)Subsidiary companies       0.00       0.00         034 KBUNL       0.00       0.00         035 PVUNL       0.00       0.00         036 NVVN       0.00       0.00         037 iii)Joint Venture companies       0.00       0.00         038 iv)others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	030		0.00	0.00
032       i)Key management personel       0.00       0.00         033       ii)Subsidiary companies       0.00       0.00         034       KBUNL       0.00       0.00         035       PVUNL       0.00       0.00         036       NVVN       0.00       0.00         037       iii)Joint Venture companies       0.00       0.00         038       iv)others       0.00       0.00         039       0.00       0.00       0.00         059       RPD       0.00       0.00         060       i)Key management personel       0.00       0.00         061       ii)Subsidiary companies       0.00       0.00         062       iii)Joint Venture companies       0.00       0.00         063       iv)Others       0.00       0.00         064       0.00       0.00	031	Loans to related parties include:	0.00	0.00
033       ii)Subsidiary companies       0.00       0.00         034       KBUNL       0.00       0.00         035       PVUNL       0.00       0.00         036       NVVN       0.00       0.00         037       iii)Joint Venture companies       0.00       0.00         038       iv)others       0.00       0.00         039       0.00       0.00       0.00         059       RPD       0.00       0.00         060       i)Key management personel       0.00       0.00         061       ii)Subsidiary companies       0.00       0.00         062       iii)Joint Venture companies       0.00       0.00         063       iv)Others       0.00       0.00         064       0.00       0.00		-	0.00	
035       PVUNL       0.00       0.00         036       NVVN       0.00       0.00         037       iii) Joint Venture companies       0.00       0.00         038       iv) others       0.00       0.00         039       0.00       0.00         059       RPD       0.00       0.00         060       i) Key management personel       0.00       0.00         061       ii) Subsidiary companies       0.00       0.00         062       iii) Joint Venture companies       0.00       0.00         063       iv) Others       0.00       0.00         064       0.00       0.00		· · · ·	0.00	
036       NVVN       0.00       0.00         037       iii) Joint Venture companies       0.00       0.00         038       iv) others       0.00       0.00         039       0.00       0.00       0.00         059       RPD       0.00       0.00         060       i) Key management personel       0.00       0.00         061       ii) Subsidiary companies       0.00       0.00         062       iii) Joint Venture companies       0.00       0.00         063       iv) Others       0.00       0.00         064       0.00       0.00	034	KBUNL	0.00	0.00
037 iii) Joint Venture companies       0.00       0.00         038 iv) others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i) Key management personel       0.00       0.00         061 ii) Subsidiary companies       0.00       0.00         062 iii) Joint Venture companies       0.00       0.00         063 iv) Others       0.00       0.00         064       0.00       0.00	035	PVUNL	0.00	0.00
038 iv)others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	036	NVVN	0.00	0.00
039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	037	iii)Joint Venture companies	0.00	0.00
039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	038	iv)others	0.00	0.00
059       RPD       0.00       0.00         060       i)Key management personel       0.00       0.00         061       ii)Subsidiary companies       0.00       0.00         062       iii)Joint Venture companies       0.00       0.00         063       iv)Others       0.00       0.00         064       0.00       0.00		,		
060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	059	RPD	0.00	
061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00				
062 iii) Joint Venture companies       0.00       0.00         063 iv) Others       0.00       0.00         064       0.00       0.00		· · · · · · · · · · · · · · · · · · ·		
063 iv)Others       0.00       0.00         064       0.00       0.00		· · · · · · · · · · · · · · · · · · ·		
0.00 0.00		·		
		,		
	065	Total	0.00	

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NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS ( Amount in ₹) 31.03.2020 31.03.2019 001 Other Financial Assets (current) 0.00 0.00 002 0.00 0.00 003 **ADVANCES** 0.00 0.00 004 0.00 0.00 005 **Related Parties** 0.00 0.00 006 Secured 0.00 0.00 007 **Un-Secured** 583,008,854.62 115,514,066.15 Considered doubtful 800 0.00 0.00 009 0.00 0.00 010 **Employees** 0.00 0.00 012 Unsecured 2,545,980.44 3,465,523.87 Considered Doubtful 013 0.00 0.00 014 0.00 0.00 020 **Others** 0.00 0.00 021 Secured 0.00 0.00 022 Unsecured 0.00 0.00 023 Considered Doubtful 0.00 0.00 024 0.00 0.00 025 Less: Allowance for bad & doubtful advances 0.00 0.00 026 0.00 0.00 033 **Total (Advances)** 586,474,378.49 118,060,046.59 044 0.00 0.00 045 **Claims Recoverable** 0.00 0.00 046 Secured 0.00 0.00 047 Unsecured, considered good 59,241,658.00 95,503,503.01 048 Considered Doubtful 0.00 0.00 049 Less:- Allowance for doubtful claims 0.00 0.00 Others-Claims Recoverable 050 0.00 0.00 051 0.00 0.00 052 Unbilled Revenue 0.00 0.00 053 Hedging cost recoverable from beneficiaries 0.00 0.00 054 **Derivative MTM Asset** 0.00 0.00 055 Finance Lease Receivable 0.00 0.00 056 Mine Closure Deposit 0.00 0.00 057 Others\* 0.00 23,375.00 058 Receivable from MCP Escrow A/c 0.00 0.00 059 **Total** 681,977,881.50 177,325,079.59 060 0.00 0.00 062 \* Other include amount recoverable from 0.00 0.00 contractors and other parties towards hire charges, rent/electricity etc. 063 0.00 0.00 067 0.00 0.00 068 Advances to related parties include: 0.00 0.00 069 0.00 0.00 i)Key management personel 070 0.00 0.00 ii)Subsidiary companies 071 0.00 iii)Joint Venture companies 0.00

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NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS ( Amount in ₹) 31.03.2020 31.03.2019 072 0.00 iv)Contractors 0.00 073 v)Others 0.00 0.00 074 0.00 0.00 Advances include amount due from the following 0.00 0.00 075 Private Companies in which Directors of the Company are also Directors in such Companies 0.00 0.00 076 077 0.00 0.00 NTPC GE Power Services Pvt.Ltd. 0.00 0.00 078 079 Ratnagiri Gas & Power Private Ltd. 0.00 0.00 080 0.00 0.00 Aravali Power Company Private Ltd. 081 NTPC-SCCL Global Ventures Private Ltd. 0.00 0.00 082 NTPC BHEL Power Projects Private Ltd. 0.00 0.00 083 0.00 0.00 Meja Urja Nigam Private Limited 084 Nabinagar Power Generating Company Ltd. 0.00 0.00 National High Power Test Labortory Private Ltd. 0.00 0.00 085 086 International Coal Ventures Private Ltd. 0.00 0.00 087 CIL NTPC Urja Private Ltd. 0.00 0.00 089 Bangladesh-India Friendship Power Co. Pvt.Ltd 0.00 0.00 090 0.00 0.00 091 Related Party (Adv)- Employee 0.00 0.00 092 0.00 0.00 Related Party (Adv)- Subsidiaries 093 0.00 0.00 Related Party (Adv)- Joint Ventures 094 Related Party (Adv)- Contractors 0.00 0.00

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Related Party (Adv)- Others



583,008,854.62

583,008,854.62

115,514,066.15

115,514,066.15



	E NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS		( Amount in ₹ )
NOT	As at	31.03.2020	31.03.2019
001	OTHER CURRENT ASSETS	0.00	0.00
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	191,392,850.00	191,392,850.00
004	ADVANCES	0.00	0.00
005	7.5 17 11 0 2 0	0.00	0.00
006	Related Parties	0.00	0.00
007	Secured	0.00	0.00
800	Un-Secured	22,267,172.00	15,733,245.00
009	Considered doubtful	0.00	0.00
010	00.000000000000000000000000000000000000	0.00	0.00
011	Employees(including imprest)	0.00	0.00
012	Secured	0.00	0.00
013	Unsecured	313,974.00	367,109.28
014	Considered Doubtful	0.00	0.00
015		0.00	0.00
016	Contractors & Suppliers	0.00	0.00
017	Secured	0.00	0.00
018	Unsecured	195,835,792.94	122,879,539.27
019	Considered Doubtful	0.00	53,600.00
020	Considered Bodbildi	0.00	0.00
021	Others**	0.00	0.00
022	Secured	0.00	0.00
023	Unsecured	12,449,859.00	65,159,372.17
024	Considered Doubtful	0.00	0.00
025	Considered Bodelia	0.00	0.00
026	Less: Allowance for bad & doubtful advances	0.00	53,600.00
027	Deferred Payroll Expenses (Secured)	2,488,898.40	2,810,851.92
028	Deferred Payroll Expenses (Unsecured)	3,815,730.86	4,524,013.84
029	Sub-total	6,304,629.26	7,334,865.76
030	Interest accrued on :	0.00	0.00
031	Advances to contractors	0.00	0.00
032	7 dvarious to contractors	0.00	0.00
033	Claims Recoverable	0.00	0.00
034	Secured	0.00	0.00
035	Unsecured, considered good	207,959,344.25	86,481,056.84
036	Considered Doubtful	26,600,000.00	26,600,000.00
037	Less:- Allowance for doubtful claims	26,600,000.00	26,600,000.00
038	2005. Allowarioe for adultar daming	0.00	0.00
039	Deferred premium on forward exchange contract/	0.00	0.00
	Option Assets		
041	Assets Held for Disposal	197,831.40	197,831.40
042	Others	4,507,295.00	4,299,036.00
043	_	0.00	0.00
044	Total (Other Current Assets)	641,228,747.85	493,844,905.72
045	**Include Prepaid Expenses	12,449,859.00	65,159,372.17
046	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	812,756.00	466,336.00
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#### RIHAND SUPER THERMAL POWER STATION NOTE NO. 19 TO THE ES-CA-OTHER CURRENT ASSETS

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS ( Amount in ₹) 31.03.2020 31.03.2019 047 \*Includes deposited with courts 0.00 0.00 048 \*Includes deposited with LIC for annuity payments 0.00 0.00 049 \* Includes deposits with WRD / against BG in r/o 0.00 0.00 finance lease 050 Other include amount recoverable from contractors 0.00 0.00 and other parties towards hire charges, rent/electricity etc. 052 Advances to related parties include: 0.00 0.00 0.00 0.00 053 i)Key management personel 0.00 0.00 054 ii)Subsidiary companies 055 iii)Joint Venture companies 0.00 0.00 056 Contractors 0.00 0.00 057 Others 0.00 0.00 058 0.00 0.00 059 Advances include amount due from the following 0.00 0.00 Private Companies in which Directors of the Company are also Directors in such Companies 060 0.00 0.00 061 0.00 0.00 062 Related Party (Adv)- Employee 0.00 0.00 063 Related Party (Adv)- Subsidiaries 0.00 0.00 064 Related Party (Adv)- Joint Venture 0.00 3,091,378.00 065 Related Party (Adv)- Contractors 21,706,489.00 10,778,611.00 066 Related Party (Adv)- Others 560,683.00 1,863,256.00 067 **Total** 22,267,172.00 15,733,245.00 068 0.00 0.00

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NOT	NOTE NO. 20 TO THE FSREGULATORY DEFERRAL ACCOUNT DEBIT BALANCES (Amount in ₹)				
	As at	31.03.2020	31.03.2019		
001	On account of Exchange Differences	-15,205,072.81	-33,869,209.96		
002	On account of employee benefit exp	381,915,581.00	381,915,581.00		
003	Regulatory deferred account - deferred	0.00	0.00		
004	Deferred asset for ash transportation	0.00	0.00		
005		0.00	0.00		
006	Total	366,710,508.19	348,046,371.04		

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KIHA	AND SUPER THERMAL POWER STATION		
NOT	E NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAP	PITAL	( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	SHARE CAPITAL	0.00	0.00
002	Equity Share Capital	0.00	0.00
003	Authorised	0.00	0.00
004	10,000,000,000 equity shares of Rs.10/- each (Previous year 10,000,000,000 eq shares of Rs.10/- each)	0.00	0.00
005	Issued,Subscribed and fully Paid-up	0.00	0.00
006	9,894,557,280 equity shares of Rs.10/- (Pv. Year 9,894,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		0.00	0.00
800	Total	0.00	0.00
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holding	0.00	0.00
015	- Life Insurance Corporation of India/ICICI Prudential Mutual Fund	0.00	0.00
016	No. of Shares	0.00	0.00

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017

% of holding

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0.00

0.00



NOT	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	RESERVE AND SURPLUS	0.00	0.00
002		0.00	0.00
003	Capital Reserve	0.00	0.00
004	As per last financial statements	0.00	0.00
006	Add : Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
800	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	Sub-Total	0.00	0.00
011	Securities Premium Account	0.00	0.00
012	As per last financial statements	0.00	0.00
013	Add: Additions during the year/period	0.00	0.00
014	Less: Adjustments during the year/period	0.00	0.00
015	Sub-Total	0.00	0.00
016	Bonds Redemption Reserve	0.00	0.00
017	As per last financial statements	0.00	0.00
018	Add: Transfer from Surplus	0.00	0.00
019	Less: Transfer to surplus on redemption	0.00	0.00
020	Less: Adjustments during the year/ period	0.00	0.00
021	Sub-Total	0.00	0.00
022	Share Application money Allotment	0.00	0.00
023	As per last financial statements	0.00	0.00
024	Add: Addition during the year	0.00	0.00
025	Less: Utlised for allotment during the year	0.00	0.00
026	Less: Adjustments during the year/ period	0.00	0.00
027	Sub-Total	0.00	0.00
028	Fly-ash utilisation reserve Fund	0.00	0.00
029	As per last financial statements	0.00	-129,445,999.71
030	Transferred to CC	0.00	194,794,711.06
031	Add:Transfer from revenue from operations	8,220,860.44	0.00
032	Add:Transfer from other income	0.00	0.00
033	Less: Utilised during the year	0.00	0.00
034	Tangible assets	0.00	0.00
035	Employee benefit expenses	0.00	-4,821,064.10
036	Generation,admn. and other expenses	0.00	-60,527,647.25
037	Tax Expenses	0.00	0.00
038	Sub-Total	8,220,860.44	0.00
039	Corporate social responsibility (CSR) reserve	0.00	0.00
040	As per last financial statements	0.00	0.00
041	Add : Transfer from surplus	0.00	0.00
042	Less:-Write back during the year	0.00	0.00
043	Sub-Total	0.00	0.00
044	General Reserve	0.00	0.00
045	As per last financial statements	0.00	0.00
046	Add: Transfer from Surplus	0.00	0.00
047	Less: Transfer to Surplus	0.00	0.00
		/ \	

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NOT	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
048	Less: Write back during the year /period	0.00	0.00
049	Less: Adjustments during the year /period	0.00	0.00
050	Sub-Total	0.00	0.00
051		0.00	0.00
052	Retained earnings	0.00	0.00
053	As per last financial statements	143,024,832,290.02	131,406,495,597.77
054	Add(Less):-Changes in accounting policy / prior period errors	0.00	0.00
055	Add(Less):-Profit (Loss) after tax for the year from Statement of Profit & Loss	11,532,563,737.03	11,618,336,692.25
056		0.00	0.00
057	Add: Write back from Bond Redemption Reserve	0.00	0.00
058	Add: Write back from Capital Reserve	0.00	0.00
059	Add: Write back from Foreign Project Reserve	0.00	0.00
060	Add: Write back from CSR Reserve	0.00	0.00
061	Add: Write back from General Reserve	0.00	0.00
062	Less: Transfer to Bonds Redemption Reserve	0.00	0.00
063	Less: Transfer to Foreign Project Reserve	0.00	0.00
064	Less:Transfer to Capital Reserve	0.00	0.00
065	Less:Transfer to CSR Reserve	0.00	0.00
066	Less:Transfer to General Reserve	0.00	0.00
067	Less:Interim Dividend Paid	0.00	0.00
068	Less:Tax on Interim Dividend Paid	0.00	0.00
069	Less:Final Dividend Paid	0.00	0.00
070	Less:Tax on Final Dividend Paid	0.00	0.00
071	Less: Issue of bonus debenture	0.00	0.00
072	Less: Tax on issue of bonus debenture	0.00	0.00
073	Sub-Total	154,557,396,027.05	143,024,832,290.02
074		0.00	0.00
075	Remeasurement of defined benefit plans	0.00	0.00
076	As per last financial statements	-119,460,048.36	-116,687,668.16
077	Add/(Less):- Actuarial Gains/loss through OCI	-53,349,231.17	-2,772,380.20
078	Sub-Total	-172,809,279.53	-119,460,048.36
080		0.00	0.00
081	FVTOCI Reserve	0.00	0.00
082	As per last financial statements	0.00	0.00
083	Add(Less):-Net gain/loss of equity instruments through OCI	0.00	0.00
084	Sub-Total	0.00	0.00
085		0.00	0.00
086	Total Other equity	154,392,807,607.96	142,905,372,241.66

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NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	LONG TERM BORROWINGS	0.00	0.00
002	Bonds	0.00	0.00
003	Secured	0.00	0.00
004	7.37 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
800	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)		
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 23rd August 2026 (Sixty Second Issue - Private Placement)	0.00	0.00

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( Amount in ₹)

	As at	31.03.2020	31.03.2019
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)	0.00	0.00
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/-each redeemable at par in full on 22nd September 2024 (53rd Issue - private placement).	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at par in full on 4th March 2024 (Fifty First Issue A - Private Placement)	0.00	0.00

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in 💎 )
	As at	31.03.2020	31.03.2019
028	8.41% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1A)	0.00	0.00
029	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1B)	0.00	0.00
030	9.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 4th May 2023 and ending on 4th May 2027 (Forty fourth issue - private placement)VII	0.00	0.00
031	8.48% Secured non-cumulative non-nonvertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 1st May 2023 (Seventeenth issue - private placement)	0.00	0.00
032	8.80% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th April 2023 (Forty ninth issue -private placement	0.00	0.00
033	8.49% Secured non-cumulative non-convertible redeemable taxable fully paid-up bonus debentures of Rs. 12.50 each redeemable at par in three annual installments of Rs. 2.50, Rs. 5.00 and Rs. 5.00 at the end of 8th year, 9th year and 10th year on 25th March 2023, 25th March 2024 and 25th March 2025 respectively (Fifty Fourth Issue -Bonus Debentures)X - (refer Note 5 d)	0.00	0.00
034	8.73% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
	₹ 10,00,000/- each redeemable at par in full on 07th March 2023 ( Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00
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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full	0.00	0.00
	( 10,00,000)- each redecinable at par in full		

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( Amount in ₹)

NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
	on 12th January 2019 (Nineteenth issue - private placement)II		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)III	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)VII	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)VII	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)I	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)III	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00
		>A -	

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( Amount in ₹)

NOTE NO.	23 TO THE FS-NCL-BURROWINGS		( Amount in ? )
As a	t	31.03.2020	31.03.2019
sepa rede rede year upto resp Deco Deco	15,00,000/- each with fifteen equal arately transferable eemable principal parts (STRPP) eemable at par at the end of 6th r and in annual installments thereafter of the end of 20th year eectively commencing from 23rd ember 2017 and ending on 23rd ember 2031 (Forty first issue - private eement)		
of sepa rede rede year upto resp 201	58% Secured non-cumulative convertible redeemable taxable bonds ₹ 15,00,000/- each with fifteen equal arately transferable eemable principal parts (STRPP) eemable at par at the end of 6th r and in annual installments thereafter of the end of 20th year sectively commencing from 29th July 7 and ending on 29th July 1(Fourtieth issue-private placement)III	0.00	0.00
non- of sepa rede rede year upto resp 201	Secured non-cumulative convertible redeemable taxable bonds ₹ 15,00,000/- each with fifteen equal arately transferable emable principal parts (STRPP) emable at par at the end of 6th r and in annual installments thereafter of the end of 20th year sectively commencing from 9th June 7 and ending on 9th June 2031(Thirty ninth issue-private ement)III	0.00	0.00
of sepa rede rede year upto resp 201 203	7% Secured non-cumulative redeemable taxable bonds  15,00,000/- each with fifteen equal arately transferable eemable principal parts (STRPP) eemable at par at the end of 6th r and in annual installments thereafter of the end of 20th year sectively commencing from 22nd March 7 and ending on 22nd March 1(Thirty eighth issue-private eement)III	0.00	0.00
059 8.80 non- of ₹ sepa	086% Secured non-cumulative convertible redeemable taxable bonds ₹ 15,00,000/- each with fifteen equal arately transferable eemable principal parts (STRPP) eemable at par at the end of 6th	0.00	0.00

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( Amount in ₹)

1401L 140. 23 10	THE F3-NCL-BURKUWINGS		( Amount in ( )
As at		31.03.2020	31.03.2019
upto the e respective Decembe	in annual installments thereafter end of 20th year ely commencing from 15th r 2016 and ending on 15th r 2030 (Thirty sixth issue - private t)		
of ₹ 15,0 separately redeemak redeemak year and upto the e respective Septembe	ole at par at the end of 6th in annual installments thereafter and of 20th year ely commencing from 15th er 2016 and ending on 15th er 2030 (Thirty fifth issue - private	0.00	0.00
of ₹ 15,00, separately redeemak redeemak year and upto the e respective 2016 and	Secured non-cumulative ertible redeemable taxable bonds 000/- each with fifteen equal transferable principal parts (STRPP) ple at par at the end of 6th in annual installments thereafter end of 20th year ely commencing from 10th June ending on 10th June 2030 arth issue - private placement)III	0.00	0.00
of ₹ 15,0 separately redeemak redeemak year and upto the erespective	ole at par at the end of 6th in annual installments thereafter and of 20th year ely commencing from 25th March ending on 25th March hirty second issue - private	0.00	0.00
of ₹ 70,00,00 transferak principal semi-annu 4th June 2	Secured non-cumulative ertible redeemable taxable bonds  Oo/- each with fourteen separately ble redeemable parts (STRPP) redeemable at par ually commencing from 2012 and ending on 4th December enty fifth issue -	0.00	0.00

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( Amount in ₹)

NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
As at	31.03.2020	31.03.2019
private placement)III		
9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)V	0.00	0.00
7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00
	As at private placement)III  9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III  8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV  8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV  8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV  7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV  7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)V  7.552% Secured non-cumulative private placement)V	As at 31.03.2020 private placement)III  9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III  8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV  8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV  8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV  7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV  7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)V

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( Amount in ₹)

1401	L NO. 23 TO THE TO-NOL-BORROWINGS		( Amount m v )
	As at	31.03.2020	31.03.2019
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
074		0.00	0.00
075		0.00	0.00
081		0.00	0.00
	Sub Total	0.00	0.00
083	Foreign Currency Notes-Unsecured	0.00	0.00
084	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
085	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
086	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
087	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
880	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
089	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
090	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
091	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00
		>91 —	

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( Amount in ₹ )

NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		(Amount in ₹)
	As at	31.03.2020	31.03.2019
092	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
093		0.00	0.00
094	Sub Total	0.00	0.00
095	Long term maturities of Finance Lease Obligations (Secured) IX	0.00	0.00
100	Long term maturities of Finance Lease Obligations (Unsecured) X	0.00	0.00
101	Term Loans	0.00	0.00
102	From Banks	0.00	0.00
103	Secured	0.00	0.00
104	Rupee Loans	0.00	0.00
105	Unsecured	0.00	0.00
106	Foreign Currency Loans	0.00	0.00
107	Rupee Loans	0.00	0.00
108	From Others	0.00	0.00
109	Secured	0.00	0.00
110	Rupee Loans	0.00	0.00
111	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
112	Unsecured	0.00	0.00
113	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
114	Other Foreign currency loans	0.00	0.00
115	Rupee Loans	0.00	0.00
116	Deposits	0.00	0.00
117	Unsecured	0.00	0.00
118	Fixed Deposits	0.00	0.00
119	Others	0.00	0.00
120	Unsecured	0.00	0.00
121	Bonds Application Money Pending Allotment	0.00	0.00
122	Sub-total	0.00	0.00
123	Less:- Interst accrued but not due on borrowings	0.00	0.00
124	Less:- Current maturities of long term borrowings	0.00	0.00
125	Bonds-Secured	0.00	0.00
126	5.875% Fixed Rate Notes	0.00	0.00
127	Foreign currency loans from Banks- unsecured	0.00	0.00
128	Rupee loans from banks- Secured	0.00	0.00
129	Rupee loans from banks- unsecured	0.00	0.00
130	Rupee Term Ioan from Others - Secured	0.00	0.00
131	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
132	Other foreign currency loans from others- unsecured	0.00	0.00
133	Rupee loans from others- unsecured	0.00	0.00
134	Finance Lease obligations - secured	0.00	0.00
135	Finance Lease obligations - unsecured	0.00	0.00
136		0.00	0.00
137		0.00	0.00

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( Amount in ₹)

	As at	31.03.2020	31.03.2019
200	Total	0.00	0.00

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NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES ( Amount in ₹) 31.03.2019 31.03.2020 001 TRADE PAYABLES(NON CURRENT) 0.00 0.00 002 For Goods and Services 0.00 0.00 003 - Micro & Small Enterprises 15,622,396.62 6,964,940.99 004 - Others 5,712,598.82 19,217,358.89 005 0.00 0.00 006 Total 21,334,995.44 26,182,299.88

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NOT	E <u>NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIA</u>	BILITIES	( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	OTHER FINANCIAL LIABILITIES (NON-CURRENT)	0.00	0.00
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	36,951.05	1,644,420.88
004	- Others	34,267,850.68	438,868.21
005	Others	0.00	0.00
006	Deposits from contractors and others	75,100.00	0.00
007		0.00	0.00
800		0.00	0.00
009	Total	34,379,901.73	2,083,289.09

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( Amount in ₹)

	As at	31.03.2020	31.03.2019
001	LONG TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
013		0.00	0.00
014	TOTAL	0.00	0.00

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NOT	NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET)			( Amount in ₹
	As at	Opening Balance on 01.04.2019	Addition	Closing Balance on 31.03.2020
001	DEFERRED TAX LIABILITIES (NET)			
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00
003	Less: Deferred tax assets			
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00
005	Unabsorbed Depreciation	0.00	0.00	0.00
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00
007	MAT credit entitlement	0.00	0.00	0.00
800		0.00	0.00	0.00
009	Total	0.00	0.00	0.00
010		0.00	0.00	0.00
011	Total	0.00	0.00	0.00
012	Breakup of deferred tax assets	0.00	0.00	0.00
013	Provision	0.00	0.00	0.00
014	Statutory dues	0.00	0.00	0.00
015	Leave encashment	0.00	0.00	0.00
016	Others	0.00	0.00	0.00
017		0.00	0.00	0.00
018		0.00	0.00	0.00

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#### NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES

( Amount in ₹)

	As at	31.03.2020	31.03.2019
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004		0.00	0.00
005	TOTAL	0.00	0.00

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( /	Amount	in	₹
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	As at	31.03.2020	31.03.2019
001	Short Term Borrowings	0.00	0.00
002	Loans repayable on demand	0.00	0.00
003	From Banks	0.00	0.00
004	Secured	0.00	0.00
005	Cash Credit	0.00	0.00
006	Unsecured	0.00	0.00
007	Cash Credit	0.00	0.00
800	Other loans-unsecured	0.00	0.00
009	Commecial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	Total	0.00	0.00
012		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

( Amount in ₹)

	As at	31.03.2020	31.03.2019
001	TRADE PAYABLES	0.00	0.00
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	347,533,123.95	277,066,480.33
004	- Others	1,929,276,543.35	1,245,121,688.26
005		0.00	0.00
006	Total	2,276,809,667.30	1,522,188,168.59
007		0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

( Amount in ₹ )

NOT	E <u>NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILI</u>	TIES	(Amount in ₹)
	As at	31.03.2020	31.03.2019
01	OTHER FINANCIAL LIABILITIES (CURRENT)	0.00	0.00
02	Current maturity of long term borrowings	0.00	0.00
03	Bonds-Secured	0.00	0.00
04	Foreign Currency Fixed Rate Notes	0.00	0.00
05	From Banks	0.00	0.00
06	Secured	0.00	0.00
07	Rupee Term Loan	0.00	0.00
800	Unsecured	0.00	0.00
09	Foreign currency loans	0.00	0.00
10	Rupee term loans	0.00	0.00
11	From Others	0.00	0.00
)12	Secured	0.00	0.00
)13	Rupee Term Loan	0.00	0.00
14	Unsecured	0.00	0.00
)15	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
)16	Other foreign currency loans	0.00	0.00
)17	Rupee term loans	0.00	0.00
)18	Fixed deposits	0.00	0.00
)19	Sub Total	0.00	0.00
)20	Current maturity of finance lease obligations (secured)	0.00	0.00
)21	Current maturity of finance lease obligations (unsecured)	0.00	0.00
)22	Interest accrued but not due on borrowings	0.00	0.00
)23	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
)27	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	Payable for Capital Expenditure	0.00	0.00
033	- Micro & Small Enterprises	118,466,640.74	118,220,405.93
034	- Others	1,851,731,237.95	1,779,019,030.22
035	Others Payables	0.00	0.00
036	Deposits from contractors and others	55,965,895.78	375,029,853.80
)37	Gratuity Obligations	0.00	0.00
038	Payable to employees	21,909,288.36	31,125,349.51
039	Payable to holding company	0.00	0.00
040	Retention on A/c BG encashment (Solar)	0.00	0.00
041	Payable to Solar Payment Security Account	0.00	0.00
042	Others **	125,967,538.41	121,601,858.45

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

( Amount in ₹)

	As at	31.03.2020	31.03.2019
043		0.00	0.00
044	Total	2,174,040,601.24	2,424,996,497.91
045	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
046	** Include Payable to Hospital, parties for stale cheques and other payable.	0.00	0.00

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NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES			( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	OTHER CURRENT LIABILITIES	0.00	0.00
002	Advances from customers and others	10,105,072.69	17,534,344.61
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	87,940,416.32	49,206,348.58
005	Others	0.00	0.00
006	Total	98.045.489.01	66,740,693,19

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NOT	E NO. 33 TO THE FS-CL-PROVISIONS		( Amount in ₹ )
	As at	31.03.2020	31.03.2019
001	SHORT TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
028	Provisions for Obligations Incidental to Land Acquisition	0.00	0.00
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	Closing Balance	0.00	0.00
035	Provision for Tariff Adjustment	0.00	0.00
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	Closing Balance	0.00	0.00
042	Provision for shortage in Fixed Assets Pending Investigation & Others	0.00	0.00
043	Opening balance	196,021.10	196,021.10
044	Additions during the year	437,836.89	0.00
045	Amounts adjusted during the year	0.00	0.00
046	Amounts reversed during the year	0.00	0.00
047	Closing Balance	633,857.99	196,021.10
048	Provision for Arbitration	0.00	0.00
049	Opening balance	7,428,608.00	7,010,256.00
050	Additions during the year	418,352.00	418,352.00
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	Closing Balance	7,846,960.00	7,428,608.00
054	Others	0.00	0.00
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	Closing Balance	0.00	0.00
102		0.00	0.00
103	Total	8,480,817.99	7,624,629.10

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NOTE NO. 34 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

( Amount in ₹)

	As at	31.03.2020	31.03.2019
001	Current liabilities - current tax liabilities (net)	0.00	0.00
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
006	Closing Balance	0.00	0.00

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NOTE NO. 35 TO THE FS--DEFERRED REVENUE ( Amount in ₹) 31.03.2020 31.03.2019 As at 0.00 0.00 001 **Deferred Revenue** 002 0.00 On account of advance against depreciation 0.00 On account of income from foreign currency 003 1,990,729,000.00 1,250,048,000.00 fluctuation 004 0.00 Government grants 0.00 005 0.00 0.00 006 1,990,729,000.00 1,250,048,000.00 **TOTAL** 

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NOTE NO. 36 TO THE FSREGULATORY DEFERRAL ACCOUNT CREDIT BALANCES (Amoun			
	As at	31.03.2020	31.03.2019
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
004	Total	0.00	0.00

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NOT	E NO. 37 TO THE FSREVENUE FROM OPERATIONS		( Amount in ₹ )
	For the Year ended	31.03.2020	31.03.2019
001	REVENUE FROM OPERATIONS	0.00	0.00
002	Sales	0.00	0.00
003	Energy Sales (including Electricity Duty)	50,784,410,674.00	50,311,539,034.00
004	Less: Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	8,642,052.81
006	Add: Exchange fluctuation receivable from customers	-78,857,000.00	0.00
007	Sale of energy through trading	0.00	0.00
800	Commission (NVVN)	0.00	0.00
009	Sub total	50,705,553,674.00	50,320,181,086.81
010	Less: Rebate to customers	215,032,456.12	311,015,253.92
011	Energy Sales (Total)	50,490,521,217.88	50,009,165,832.89
012	Consultancy, project management and supervision fees	41,420.00	1,790,976.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	Sub-total	0.00	0.00
018	Total - Sales	50,490,562,637.88	50,010,956,808.89
019	Sale of fly ash/ash products	9,410,400.00	0.00
020	Less: Transferred to fly ash utilisation reserve fund	-9,410,400.00	0.00
021	Sub-total	0.00	0.00
022	Other Operating Income	0.00	0.00
023	Interest from customers	44,084,590.00	7,596,298.00
024	Energy Internally Consumed *	30,711,686.00	29,705,242.00
025	Interest income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	0.00	0.00
029	Income from E-Mobility Business	0.00	0.00
030		0.00	0.00
031	Total	50,565,358,913.88	50,048,258,348.89
040	<ul> <li>Valued at variable cost of generation and corresponding amount included in power charges ( Note No. 42)</li> </ul>	0.00	0.00
041	Excise duty on sale of flyash,cenospere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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NOI	E NO. 38 TO THE FSOTHER INCOME		( Amount in ₹ )
	For the Year ended	31.03.2020	31.03.2019
001	OTHER INCOME	0.00	0.00
002	Interest from	0.00	0.00
004	Financial assets at amortised cost	0.00	0.00
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007		0.00	0.00
800	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortiation of premium	0.00	0.00
010	Sub Total	0.00	0.00
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	17,127,436.11	17,160,115.97
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	2,488,597.00	2,162,933.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	Sub Total	0.00	0.00
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	Sub Total	0.00	0.00
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	0.00	1,445.00
031		0.00	0.00
032	Dividend from	0.00	0.00
033	Longterm investments in	0.00	0.00
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	Current Investments in	0.00	0.00
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
041	Lease Rent # Ash Brick Plant	0.00	0.00
042	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	0.00	0.00
044	Profit on disposal of PPE	90,379.35	472,425.34
045	Profit on redemption of GOI securities	0.00	0.00

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	E NO. 29 TO THE ESCOTHED INCOME		(Amount in ₹)
NOT	E NO. 38 TO THE FS-OTHER INCOME  For the Year ended	31.03.2020	( Amount in ₹ )
046	Net gain on sale of investments	0.00	31.03.2019
047	Surcharge received from customers	2,550,077,957.00	1,749,523,951.00
048	Hire charges for equipment	67,561.00	777,334.00
049	Gain on option contract / Discount on	0.00	0.00
049	F.ExchContract	0.00	0.00
050	Provision written back-others	6,148,851.93	6,924,813.36
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less : Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less : Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	459,475,589.49	197,612,166.20
057	Total	3,035,476,371.88	1,974,635,183.87
058	Less:Transferred to Development of Coal Mines- Note 43A	0.00	0.00
059	Less:Transferred to Expenditure during Construction period (net)- Note 43	0.00	0.00
061	· · · · · · ·	0.00	0.00
062	Total	3,035,476,371.88	1,974,635,183.87
063		0.00	0.00
064	Details of Miscellaneous Income	0.00	0.00
065	Vehicle Hire Charges.	110,000.00	112,080.00
066	Sale of by products & residuals	0.00	0.00
067	Township recoveries(exl. Hospital Recoveries).	22,749,254.28	27,025,043.43
068	Depreciation written back	0.00	0.00
069	Sale of Scrap.	39,568,148.02	67,929,628.85
070	Receipt under loss of profit policy.	0.00	0.00
071	Receipts under MBD/Fire Policy.	315,144,938.00	28,077,160.00
072	Management development programme.	0.00	0.00
073	Management Fee - Misc (NVVN)	0.00	0.00
074	Others	81,903,249.19	74,468,253.92
075		0.00	0.00
076	Total (Miscellaneous Income)	459,475,589.49	197,612,166.20
077		0.00	0.00
078	Details of Provision written back others	0.00	0.00
079	Doubtful debts	0.00	0.00
080	Doubtful Loans, Advances and Claims	42,405.00	0.00
081	Doubtful Construction Advances	0.00	0.00
082	Shortage in Construction Stores	3,559,179.34	2,727,742.97
083	Shortage in Stores	2,545,110.36	4,180,825.39
084	Obsolescence in Stores	2,157.23	16,245.00
085	Unserviceable capital works	0.00	0.00
086	Other Obligation	0.00	0.00
087	Shortage in Fixed Assets	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 38 TO THE FS--OTHER INCOME

( Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
880	Diminution in value of Investment	0.00	0.00

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NOTE NO. 38A TO THE FS--FUEL COST ( Amount in ₹) 31.03.2020 31.03.2019 For the Year ended 001 **FUEL COST** 0.00 0.00 002 Coal 0.00 0.00 003 Captive 0.00 0.00 004 Other than captive 30,178,971,766.14 28,421,008,281.56 005 Gas 0.00 0.00 006 Naptha 0.00 0.00 007 Oil 239,573,779.54 265,768,463.85 30,418,545,545.68 28,686,776,745.41 800 **Total** 009 0.00 0.00 010 0.00 0.00

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#### NOTE NO. 39 TO THE FS--EMPLOYEE BENEFITS EXPENSE ( Amount in ₹) For the Year ended 31.03.2020 31.03.2019 **EMPLOYEE BENEFITS EXPENSE** 001 0.00 0.00 002 Salaries and wages 1,650,643,540.59 1,753,166,094.90 003 Contribution to provident and other funds 173,843,153.43 255,676,601.51 004 Unwinding of deferred payroll expense 11,718,520.61 12,023,691.77 005 177,064,793.44 204,638,071.02 Staff welfare expenses 006 Less: Expenses transferred to Consultancy group 0.00 0.00 007 0.00 0.00 800 **Sub Total** 2,013,270,008.07 2,225,504,459.20 Less: Employee benefits expense inventorised 009 152,386,279.55 178,939,469.59 Less: Transferred/Allocated to development of 010 0.00 0.00 coal mines 011 0.00 0.00 012 Less: Transferred to fly ash utilisation reserve fund 0.00 4,821,064.10 013 Less: Transferred to CSR Expenses 0.00 0.00 014 Reimbursements for employees on secondment 1,632.87 0.00 015 Less: Transferred to expenditure during 0.00 6,752,468.23 construction period (net)- Note 43 **TOTAL** 016 1,854,129,627.42 2,041,743,925.51 017 Managerial Remuneration paid/ payable to 0.00 0.00 **Directors included above (except for Directors** fee which is included in Note 42) 018 Salaries and wages 0.00 0.00 019 Contribution to provident and other funds 0.00 0.00 020 Staff welfare expenses 0.00 0.00 021 Directors fee 0.00 0.00 022 0.00 0.00

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0.00

0.00



NOT	E NO. 40 TO THE FSFINANCE COSTS		( Amount in ₹ )
	For the Year ended	31.03.2020	31.03.2019
001	FINANCE COSTS	0.00	0.00
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	516,674,205.82	510,151,783.67
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	34,538,576.20	48,912,722.87
006	Rupee term loans	940,580,407.00	1,089,713,771.00
007	Public deposits	0.00	0.00
800	Foreign currency bonds/notes	625,074,179.63	614,796,657.21
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	6,650,468.54	4,434,514.06
011	Commercial Papers	0.00	0.00
012	Others	0.00	4,424.00
013	Sub Total	2,123,517,837.19	2,268,013,872.81
014	Other Borrowing Costs	0.00	0.00
015	Bonds servicing & public deposit exp.	768,686.21	1,084,786.97
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	0.00	0.00
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others _	0.00	0.00
026	Sub Total (Other Borrowing cost)	768,686.21	1,084,786.97
027		0.00	0.00
028	Exchange differences regarded as an adjustment to interest costs	13,092,857.00	0.00
029	Sub Total	2,137,379,380.40	2,269,098,659.78
030	Less: Transferred to Expenditure during construction period (net) - Note 43	6,944,586.19	36,392,300.06
031	Less: Transferred to development of coal mines- Note 43A	0.00	0.00
032		0.00	0.00
033	Total _	2,130,434,794.21	2,232,706,359.72

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NOT	E NO. 41 TO THE FSDEPRECIATION, AMORTIZA	NSE (Amount in ₹)	
	For the Year ended	31.03.2020	31.03.2019
001	Depreciation, amortization and impairment expense	0.00	0.00
002	On property, plant and equipment- Note 2	4,377,618,570.90	4,550,839,731.18
003	On intangible assets- Note 4	115,063.13	122,696.49
004	Sub-total	4,377,733,634.03	4,550,962,427.67
005	Less:	0.00	0.00
006	Inventorised	345,650,636.39	341,291,813.12
007	Transferred to Expenditure during Construction Period (net)- Note 43	0.00	0.00
800	Transferred/Allocated to development of coal mines	0.00	0.00
009	Adjustment with deferred revenue from deferred foreign currency fluctuation	117,252,000.00	102,349,000.00
010	Total	3,914,830,997.64	4,107,321,614.55

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	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2020	31.03.2019
001	OTHER EXPENSES	0.00	0.00
002	Power charges	30,711,686.00	29,705,242.00
003	Less: Recovered from contractors & employees	10,254,267.44	13,057,737.54
004	Sub-Total(Power Charges)	20,457,418.56	16,647,504.46
005	Water charges	139,871,221.00	130,291,077.00
006	Stores consumed	25,535,090.39	27,347,483.19
007	Rent	0.00	0.00
800	Less:Recoveries	0.00	0.00
009	Sub-Total (Rent)	0.00	0.00
010	Cost of extraction of Captive coal	0.00	0.00
011	Repairs & maintenance	0.00	0.00
012	Buildings	155,238,832.21	141,546,169.08
013	Plant & machinery	0.00	0.00
014	Power stations	1,971,478,736.27	1,693,769,413.12
015	Construction equipment	0.00	0.00
016	Others	83,615,119.59	73,925,752.72
017	Sub-total (Repairs & maintenance)	2,210,332,688.07	1,909,241,334.92
019	Load Dispatch Center Charges	31,162,794.00	22,270,407.00
021	Insurance	89,337,957.77	78,689,952.40
022	Interest to beneficiaries	0.00	0.00
023	Rates and taxes	15,456,955.21	16,070,520.39
023	Water cess & environment protection cess	0.00	0.00
025	Training & recruitment expenses	3,118,705.45	2,828,092.52
025	Less: Receipts	0.00	0.00
020	<u> </u>		
027	Sub-total (Training and recruitment expenses)	3,118,705.45	2,828,092.52
028	Communication expenses Inland Travel	22,862,791.41	23,125,419.90 86,447,018.40
		82,463,633.67	
030	Foreign Travel	120,940.46	818,545.73
031	Tender expenses	0.00	2,527,824.00
032	Less: Receipt from sale of tenders	0.00	262,122.00
033	Sub-total (Tender expenses)	0.00	2,265,702.00
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	0.00	119,556.00
039	Sub-total (Payment to Auditors)	0.00	119,556.00
040	Advertisement and publicity	1,212,507.00	1,883,491.00
041	Electricity duty	0.00	0.00
042	Security expenses	373,349,148.40	358,302,696.35
043	Entertainment expenses	28,763,376.25	24,227,675.39
044	Expenses for guest house	17,150,884.00	15,958,948.48
045	Less:Recoveries	0.00	0.00
046	Sub-Total (Guest house expenses)	17,150,884.00	15,958,948.48
047	Education expenses	55,250,389.00	44,681,502.00
049	Donations	0.00	0.00
		( )	

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NOT	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2020	31.03.2019
050	Ash utilisation & marketing expenses	125,414,779.59	47,138,082.29
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	3,982,140.37	4,095,432.60
054	Legal expenses	15,785,425.50	15,169,675.00
055	EDP hire and other charges	2,894,018.79	4,809,590.85
056	Printing and stationery	3,525,595.39	4,990,438.36
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	31,158,224.74	35,838,628.63
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062		0.00	0.00
063	Cost of Hedging	0.00	0.00
064	Derivatives MTM loss/gain (Net)	0.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	42,094,396.89	-13,655,079.32
066	Transport Vehicle running expenses	912,881.50	1,163,665.91
067	Horticulture Expenses	59,606,958.76	46,914,308.67
068	Hire charges- helicopter/aircraft.	0.00	2,275,100.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	24,023,844.61	23,997,915.54
074	Loss on disposal/write-off of PPE	16,538,459.84	56,357,424.12
075	Sub-Total	3,442,383,226.62	2,990,312,109.78
076	Less: Other expenses inventorised	507,661,972.36	468,542,259.64
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	125,414,779.59	60,527,647.25
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	0.00
080		0.00	0.00
081	Less: Transferred to CSR Expenses	47,896,790.00	37,667,688.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 43	805,829.61	0.00
083	Net (Generation, Administration and Other expenses)	2,760,603,855.06	2,423,574,514.89
084	Corporate Social Responsibility Expenses	102,505,554.21	126,786,061.86
085	Less: Grants-in-aid	0.00	0.00
086	Sub-total (Corporate Social Responsibility Expenses)	102,505,554.21	126,786,061.86
087	Provisions	0.00	0.00
880	Doubtful Debts	0.00	0.00
089	Doubtful loans, advances and claims	0.00	0.00
090	Doubtful Construction Advances	0.00	0.00
091	Shortage in stores	467,794.99	3,437,088.00
092	Obsolete/Dimunition in the value of surplus stores	467,405.55	3,494,463.00
093	Shortage in construction stores	4,086,971.23	3,584,591.46
094	Dimunition in value of long term investments ed: 16.05.2020 - 14:48:26	0.00	0.00
	on: 14.11.2024 - 16:14:41 Version: 0	अपर प्रदायनगढ (प्राणित्यक) Add General Manager (Commercia) एर है वें से सिमेटर/NIPC LIMITED	Page 2 of 3



NOT	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2020	31.03.2019
095	Shortage in Fixed assets	437,836.89	0.00
096	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
097	Unserviceable capital works	0.00	0.00
098	Tariff Adjustment	31,997,000.00	0.00
099	Others:	0.00	0.00
100	(i) Provision for arbitration cases	418,352.00	418,352.00
101	(ii) Other provisions	0.00	0.00
102	Total (Provisions)	37,875,360.66	10,934,494.46
103		0.00	0.00
104	Total	2,900,984,769.93	2,561,295,071.21
105		0.00	0.00
106	Breakup of miscellaneous expenses.	0.00	0.00
109	Hire charges of office equipment	71,228.00	295,857.77
111	Operating expenses of construction equipment	0.00	0.00
112	Operating expenses of D.G. sets	0.00	0.00
113	Furnishing expenses	2,160,679.12	222,088.01
114	Subscription to trade and other associations.	0.00	0.00
116	Visa and entry permit charges	0.00	0.00
117	Tree plantation expNTPC Land	0.00	0.00
118	Research & development expenses.	0.00	0.00
119	Less : Grants received for Research & develoment expenses.	0.00	0.00
120	Sub-total (Research & development expenses)	0.00	0.00
121	Bank charges	244,632.08	493,075.18
122	Business Development Expenditure	0.00	0.00
123	Surcharge (NVVN)	0.00	0.00
124	Power Trading Expenses	1,343,810.00	2,913,317.00
125	Brokerage & commission	998,531.00	2,205,176.00
129	Books and periodicals	214,497.55	182,052.00
130	Claims/advances written off	0.00	0.00
131	Stores written off	0.00	0.00
132	Survey &Investigation expenses written off	0.00	0.00
133	Others	18,990,466.86	17,686,349.58
134	Total	24,023,844.61	23,997,915.54
135		0.00	0.00
136		0.00	0.00
137		0.00	0.00

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NOT	E NO. 43 TO THE FSEXPENDITURE DURING CONST	RUCTION PERIOD (NET)	( Amount in ₹ )
	For the Year ended	31.03.2020	31.03.2019
001	EXPENDITURE DURING CONSTRUCTION PERIOD (NET)	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	5,979,041.61	0.00
004	Contribution to provident and other funds	534,992.53	0.00
005	Unwinding of deffered payroll expenses	-3,973.41	0.00
006	Staff welfare expenses	242,407.50	0.00
007	Total (A)	6,752,468.23	0.00
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	8,138,448.00
011	Foreign currency term loans	0.00	428,956.00
012	Rupee term loans	3,403,287.00	16,238,008.00
013	Foreign currency bonds/notes	0.00	10,617,123.00
014	Unwinding of discount on account of vendor liabilities	456,585.19	969,765.06
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	2,651,489.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	433,225.00	0.00
028	Total (B)	6,944,586.19	36,392,300.06
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	239,312.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	Sub-total(Net power charges)	239,312.00	0.00
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	-10,846,102.28
039	Construction equipment	0.00	0.00
040	Others	0.00	10,846,102.28
041		0.00	0.00
042	Insurance	0.00	0.00

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NOT	( Amount in ₹ )		
	For the Year ended	31.03.2020	31.03.2019
043	Rates and taxes	0.00	0.00
044	Communication expenses	46,289.00	0.00
045	Travelling expenses	489,962.71	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	Sub-total (Net tender expenses)	0.00	0.00
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	29,187.94	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	Sub-total (Net Guest House Expenses)	0.00	0.00
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	1,077.96	0.00
064	Total (D)	805,829.61	0.00
065	Total (A+B+C+D)	14,502,884.03	36,392,300.06
066	E. Less: Other Income	0.00	0.00
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	0.00	0.00
076	TOTAL (E)	0.00	0.00
077	F. Net actuarial gain/loss OCI	0.00	0.00
078		0.00	0.00
079	GRAND TOTAL (A+B+C+D-E+F)	14,502,884.03	36,392,300.06
080		0.00	0.00
081	* Balance carried to Capital Work-in-progress - (Note 3)	14,502,884.03	36,392,300.06

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4/40	ANCE SHEET	Note	31.03.2021	31.03.2020
257	As at	Note	350255	0.00
001	ASSETS		0.00	0.00
002			0.00	0.00
103	Non-Current Assets	0.20	SERVICE SERVIC	
104	Property, plant and equipment	2	53,619,450,765.67	56,728,501,510.10
005	Capital-Work-in-Progress	3	3,031,095,010.70	823,654,175.83
300	Intangible Assets	4	15,262.40	19,580.18
007	Intangible Assets under Development	5	0.00	0.00
800	Financial Assets		0.00	0.00
009	Investments in Subsidiaries and Joint Ventures	6	0.00	0.00
010	ii) Investments	7	0.00	0.00
911	ii) Trade receivables	8	0.00	0.00
012	iv) Loans	9	105,755,516.61	97,279,112.83
013	v) Other financial assets	10	0.00	0.00
014	Other non-current assets	11	2,224,648,608.02	2,510,570,969.29
015	Total non-current assets		58,980,965,163.40	60,160,025,348.23
016			0.00	0.00
017	Current Assets		0.00	0.00
018	Inventories	12	4,599,607,206.27	3,934,708,096.39
019	Financial assets		0.00	0.00
120	i) Investments	13	0.00	0.00
021	ii) Trade receivables	14	15,464,355.69	0.00
122	iii) Cash and cash equivalents	15	390,123.40	435,387.81
23	iv) Bank balances other than cash and cash equivalents	16	0.00	0.00
124	v) Loans	17	68,419,589.65	70,942,728.42
125	vi) Other financial assets	18	165,634,958.60	688,178,780.59
126	Current Tax Assets (net)		0.00	0.00
127			0.00	0.00
28	Other Current Assets	19	469.505.591.13	641,228,747.85
129			0.00	0.00
030	Total Current Assets		5,319,021,824.74	5,335,493,741.06
031	Regulatory deferral account debit balances	20	671,086,456.17	366,710,506.19
032	TOTAL ASSETS		64,971,073,444.31	65,862,229,597.48
134	EQUITY AND LIABILITIES		0.00	0.00
35	Equity		0.00	0.00
36	Equity Share capital	21	0.00	0.00
37	Other equity	22	167,459,875,592.17	156,372,525,419.96
040	Total equity		167,459,875,592.17	156,372,525,419.96
141			0.00	0.00
42	Liabilities		0.00	0.00
43	Non-Current Liabilities		0.00	0.00
44	Financial liabilities		0.00	0.00
45	i) Borrowings	23	0.00	0.00
100			0.00	0.00

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	ANCE SHEET As at	Note	31.03.2021	31.03.2020
046	ii) Trade payables	NOUG.	0.00	0.00
047	- Total outstanding dues of micro and	24	16,336,269.21	15,622,396.62
	small enterprises			
048	<ul> <li>Total outstanding dues of creditors other than micro and small enterprises</li> </ul>	24	6,373,476.89	5,712,598.82
049	iii) Other financial liabilities	25	681,741,354.25	34,379,901.73
050	Provisions	26	0.00	0.00
051	Deferred Tax Liabilities (net)	27	0.00	0.00
052	Other non-current liabilities	28	0.00	0.00
053			0.00	0.00
054	Total non-current liabilities		704,451,100.35	55,714,897.17
055			0.00	0.00
056	Current Liabilities		0.00	0.00
057	Financial liabilities		0.00	0.00
058	i) Borrowings	29	0.00	0.00
059	ii) Trade Payables	-	0.00	0.00
060	Total outstanding dues of micro and small enterprises	30	227,641,821.80	347,533,123.95
061	- Total outstanding dues of creditors other than micro and small enterprises	30	1,688,677,134.68	1,929,276,543.35
062	iii) Other financial liabilities	31	2,089,371,382.23	2,174,040,601.24
063	Other current liabilities	32	95,628,402.86	98,045,489.01
064	Provisions	33	8,265,312.00	8,480,817.99
065	Current tax liabilities (net)	34	0.00	0.00
066	Control and indicate (1707)		0.00	0.00
067	Sub Total		4,109,584,053.57	4,557,376,575.54
068	277.0000		0.00	0.00
069	Deferred Revenue	35	1,550,313,000.00	1,990,729,000.00
070	Regulatory deferral account credit balances	36	0.00	0.00
071	Inter Unit Accounts		-108,853,150,301.78	-97,114,116,295.19
072			0.00	0.00
073	TOTAL EQUITY AND LIABILITIES		64,971,073,444.31	65,862,229,597.48
074	Significant Accounting Policies as per Note 1	1	0.00	0.00
075	1000 m		0.00	0.00
076	The accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.00
077	and the second s		0.00	0.00
078			0.00	0.00
OTAI	Digitally signed by GOTAM KUMAR	20.	Dightily Dightil.	1

KUMAR BAGARIYA Digitally signed by GOTAM KUMAR BAGARIYA Date: 2021.04.29 17:55:07 +05'30'

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RIHAND SI	UPER THERM	AL POWER	STATION

1000	Ear the Veer anded	Note	31.03.2021	31.03.2020
	For the Year ended	NOIS	2000	0.00
001	Revenue	37	0.00	52,545,076,725.88
002	Revenue from operations	177	51,466,298,435.08	3,035,476,371.88
003	Other income	38	2,544,908,615.45	55,580,553,097.76
905	Total Revenue	-	54,011,207,050.53	0.00
007	Expenses	***	0.00	HISTORY PRODUCTION OF THE
800	Fuel including cost of captive coal	38A	31,224,710,698.23	30,418,545,545.68
009	Employee benefits expense	39	1,745,537,752.39	1,854,129,627.42
010	Electricity purchased for trading		0.00	0.00
011	Finance costs	40	1,929,476,341.86	2,130,434,794.21
012	Depreciation and amortization expenses	41	4,070,986,728.27	3,914,830,997.64
013	<b>A</b>	7447	0.00	0.00
014	Other expenses	42	3,501,403,380.71	2,900,984,769.93
015	CC expenses charge to revenue		723,835,735.02	865,358,462.00
016	Less: Unit expenses transferred to CC	_	0.00	0.00
017	Total expenses		43,195,950,636.48	42,084,284,196.88
020	Profit before exceptional items & tax	_	10,815,256,414.05	13,496,268,900.88
021	Exceptional items	_	0.00	0.00
024	Profit before tax	_	10,815,256,414.05	13,496,268,900.88
027	Tax expense:		0.00	0.00
028	Current tax		0.00	0.00
029	Deferred tax		0.00	0.00
030			0.00	0.00
031	Total Tax expense		0.00	0.00
032	Profit for the period before regulatory deferral account balances		10,815,256,414.05	13,496,268,900.88
033	Movement in regulatory deferral account balances		0.00	0.00
034	Regulatory deferred account - deferred		0.00	0.00
035	Others		304,375,947.98	16,012,648.15
036	Tax impact on Regulatory deferral account belances		0.00	0.00
037	Movement in Regulatory deferrall account balances (Net of Tax)		304,375,947.98	16,012,648.15
038	Profit for the period/ year		11,119,632,362.03	13,512,281,549.03
039	Other comprehensive income		0.00	0.00
040	(A) Items that will not be reclassified to profit or loss		0.00	0.00
041	<ul> <li>Net gains/(losses) on fair value of equity instruments through other comprehensive income</li> </ul>		0.00	0.00
042	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
043	<ul> <li>Net acturial gains/(losses) on defined benefit plans</li> </ul>		-24,061,329.38	-53,349,231.17
044	Income tax on above that will not be reclassified to profit or loss		0.00	0.00

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STA	TEMENT OF PROFIT AND LOSS			( Amount in ? )
-	For the Year ended	Note	31.03.2021	31.03.2020
048	Manufacture Communication Comm		0.00	0.00
049	Other comprehensive income for the year, net of income tax		-24,061,329.38	-53,349,231.17
050			0.00	0.00
051	Total Comprehensive Income for the year		11,095,571,032.65	13,458,932,317.86
065	****	_	0.00	0.00
880	Earnings per equity share:		0.00	0.00
067	Basic & Diluted		0.00	0.00
088	Significant Accounting Policies		0.00	0.00
069	Expenditure during construction period (Net)/Dev. of coal mines (net) 43 /43A		0.00	0.00
070	The accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.00

GOTAM KUMAR BAGARIYA Digitally signed by GOTAM KUMAR BAGARIYA Date: 2021.04.29 17:55:38 +05'30'

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Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	355016843.25	0.00	0.00	355016843.25	0.00	0.00	0.00	0.00	355016843.25	355016843.25
4 Right of Use	312564894.63	0.00	0.00	312564894.63	64677732.17	10521536.67	0.00	75199268.84	237365625.79	247887162.46
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of use - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	636446916.44	0.00	159951.50	636606867.94	109536598.01	23550768.85	0.00	133087366.86	503519501.08	526910318.43
8 Building:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	1852956664.03	0.00	0.00	1852956664.03	312864958.08	62855519.69	0.00	375720477.77	1477236186.26	1540091705.95
11 Others	2533965283.89	651849.77	14352916.02	2548970049.68	389425925.65	94083092.43	0.00	483509018.08	2065461031.60	2144539358.24
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	231168.13	0.00	0.00	231168.13	231168.13	0.00	0.00	231168.13	0.00	0.00
14 Water Supply, drainage & sewerage system	543971851.56	0.00	2075861.99	546047713.55	98294100.27	24336758.92	0.00	122630859.19	423416854.36	445677751.29
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	1331637054.56	0.00	22735072.00	1354372126.56	282788992.51	70801086.59	0.00	353590079.10	1000782047.46	1048848062.05
17 Railway siding	1528212.48	0.00	0.00	1528212.48	583464.81	64482.46	0.00	647947.27	880265.21	944747.67
18 Earth dam reservoir	1456921.40	0.00	0.00	1456921.40	0.00	0.00	0.00	0.00	1456921.40	1456921.40
19 Plant and machinery(including associated civil works) Owned Asset	72150091047.97	1749417411.66	(444538934.06)	73454969525.57	22338498577.64	4250997908.53	(124764520.90) 2	26464731965.27	46990237560.30	49811592470.33



Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
20 Plant and machinery(including associated civil works) Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Furniture and fixtures	174462877.14	132121.00	141236.26	174736234.40	55993361.73	9718284.42	0.00	65711646.15	109024588.25	118469515.41
22 Assets under 5 Km Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Vehicles including speedboats / helicopter- Owned	6558165.35	0.00	0.00	6558165.35	2026920.89	579121.79	0.00	2606042.68	3952122.67	4531244.46
24 Vehicles including speedboats / helicopter - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Office equipment	87710203.22	10332475.39	(2328.66)	98040349.95	42281672.36	7149396.76	25013.36	49456082.48	48584267.47	45428530.86
26 EDP, WP machines and satcom equipment	88746642.53	4701880.50	(2207618.37)	91240904.66	66678476.50	8358261.38	(2207618.37)	72829119.51	18411785.15	22068166.03
27 Construction equipments	65110895.86	0.00	0.00	65110895.86	25019015.46	2027521.73	0.00	27046537.19	38064358.67	40091880.40
28 Electrical Installations	331097542.54	0.00	(15297.60)	331082244.94	93983599.49	24483870.32	0.00	118467469.81	212614775.13	237113943.05
29 Communication equipments	31934747.30	0.00	0.00	31934747.30	21139449.21	2682540.80	0.00	23821990.01	8112757.29	10795298.09
30 Hospital equipments	23403542.97	8015882.70	(498500.00)	30920925.67	6303043.52	1526214.95	(145000.00)	7684258.47	23236667.20	17100499.45
31 Laboratory and workshop equipments	145928386.77	0.00	(192816.00)	145735570.77	35991295.49	7667668.15	0.00	43658963.64	102076607.13	109937091.28
32 Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Assets of Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 (Less):-Adjusted from fly ash utilisation reserve fund	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	80674819862.02	1773251621.02	(407990456.92)	82040081026.12	23946318351.92	4601404034.44	(127092125.91)	28420630260.45	53619450765.67	56728501510.10
Grand Total Prev Year (Tangible)	78534642964.26	1186875116.04	953301781.72	80674819862.02	19591618043.24	4377618570.90	(22918262.22)	23946318351.92	56728501510.10	58943024921.02

Details of Adjustmen	Details of Adjustments of Gross Block and Depreciation/Amortization									
Particulars	Gross	Block	Depreciatio	n/Amortization						
	Tangible As At: 31.03.2021	Tangible As At: 31.03.2020	Tangible As At: 31.03.2021	Tangible As At: 31.03.2020						
Disposal of assets	(2046638.78)	(2114197.00)	(2032443.32)	(2071876.78)						
Retirement of assets	(360826985.21)	(69448632.25)	(129619476.73)	(19577026.64)						
Cost adjustments	(61206706.58)	1021726514.10	0.00	0.00						
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00						
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00						
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00						
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00						
Transfer in /out because of Inter Unit transfers	16089873.65	3138096.87	4559794.14	(1269358.80)						
Others	0.00	0.00	0.00	0.00						
TOTAL	(407990456.92)	953301781.72	(127092125.91)	(22918262.22)						



## Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2020	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2021
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads		159951.50	(159951.50)		
4	Piling and foundation					
5	Buildings:					
6	Main plant					
7	Others	3994483.75	41494542.99	(14352916.02)	651849.77	30484260.95
8	Temporary erection					
9	Water supply, drainage and sewerage system	2950000.00	2169334.09	(2169334.09)	1966765.00	983235.00
10	Hydraulic works, barrages, dams, tunnels and power channel					
11	MGR track and signalling system	2000000.00	2735072.00	(22735072.00)		
12	Railway siding					
13	Earth dam reservoir					
14	Plant and equipment	716862112.61	2701347755.13	(441523046.74)	459253795.13	2517433025.87
15	Furniture and fixtures		202930.66	(178285.51)		24645.1
16	Vehicles					
17	Office equipment		35588.00			35588.00
18	EDP/WP machines & satcom equipment	1367798.00		(1.00)	1367797.00	
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments		256888.29			256888.29
23	Laboratory and workshop equipments					
24	Assets under 5Km Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey,Investigation,Consultancy & Supervision Cha	2987667.50				2987667.50
28	Difference in exchange on foreign currency loans					

## Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2020	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2021
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commissioning expenses (net)					
31	ExpPendAlloca-oth ex attribut Project					
32	Expenditure During Construction Period (net)*		48056989.43	19803119.69		67860109.12
33	LESS : Allocated to related works		67860109.12			67860109.12
34	LESS: Provision for Unservicable works					
35	Construction stores (At Cost)					
36	Steel	28823481.94	10797591.45	(9388238.80)		30232834.59
37	Cement	2154161.66		(126029.78)		2028131.88
38	Others	48601441.60	9455643.30	395822571.17		453879656.07
39	Sub-total	79579085.20	20253234.75	386308302.59		486140622.54
40	LESS : Provision for shortages	4086971.23		3163951.37		7250922.60
41	Sub-total	75492113.97	20253234.75	383144351.22		478889699.94
42	Total CWIP	823654175.83	2748852177.72	(78171135.95)	463240206.90	3031095010.70
43						
44						
45	PREVIOUS YEAR TOTAL	526168443.09	1282428590.34	(448034605.07)	526463585.59	823654175.83

Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 -Software	4773867.26	0.00	0.00	4773867.26	4754287.08	4317.78	0.00	4758604.86	15262.40	19580.18
Grand Total (Intangible)	4773867.26	0.00	0.00	4773867.26	4754287.08	4317.78	0.00	4758604.86	15262.40	19580.18
Grand Total Prev Year (Intangible)	4773867.26	0.00	0.00	4773867.26	4639223.95	115063.13	0.00	4754287.08	19580.18	134643.31

# Note forming part of Balance Sheet Note-4 Non Current Assets- Intangible Assets Business Area :1005

Details of Adjustments of Gross Block and Depreciation/Amortization					
Particulars	Gross	Gross Block		Depreciation/Amortization	
	InTangible As At: 31.03.2021	InTangible As At: 31.03.2020	InTangible As At: 31.03.2021	InTangible As At: 31.03.2020	
Disposal of assets	0.00	0.00	0.00	0.00	
Retirement of assets	0.00	0.00	0.00	0.00	
Cost adjustments	0.00	0.00	0.00	0.00	
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00	
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00	
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00	
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00	
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00	
Others	0.00	0.00	0.00	0.00	
TOTAL	0.00	0.00	0.00	0.00	

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# **Note forming part of Balance Sheet** Note 5: Intangible Assets under Development Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2020	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2021
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Others					
4	Exploration and Evaluation Expentiture - Coal Mini					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

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#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2021	31.03.2020
001	NON CURRENT INVESTMENTS- Investments in subsidiaries and joint ventures			0.00	0.00
012	Equity Instruments - Unquoted-(fully paid up unless otherwise stated, at cost)			0.00	0.00
013	Subsidiary Companies			0.00	0.00
014	Patratu Vidyut Utpadan Nigam Ltd.			0.00	0.00
015	NTPC Electric Supply Company Ltd.			0.00	0.00
016	NTPC Vidyut Vyapar Nigam Ltd.			0.00	0.00
017	Nabinagar Power Generating Company Ltd.			0.00	0.00
018	Kanti Bijlee Utpadan Nigam Ltd.			0.00	0.00
019	Bhartiya Rail Bijlee Company Ltd.			0.00	0.00
020	NTPC Mining Ltd (NML)			0.00	0.00
021	THDC India Ltd.			0.00	0.00
022	NEEPCO LTD.			0.00	0.00
023	NTPC EDMC Waste Solutions Pvt Ltd			0.00	0.00
024	NTPC Renewables Energy Ltd			0.00	0.00
025	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
026				0.00	0.00
027				0.00	0.00
028				0.00	0.00
029				0.00	0.00
030	Sub Total			0.00	0.00
055	Joint Venture Companies			0.00	0.00
056	Utility Powertech Ltd.			0.00	0.00
057	NTPC GE Power Services Pvt.Ltd.			0.00	0.00
058	NTPC-SAIL Power Company Ltd.			0.00	0.00
059	NTPC-Tamil Nadu Energy Company Ltd.			0.00	0.00
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
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#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2021	31.03.2020
<b>.</b>	Accordi Devesa Company Driveta Ltd			0.00	0.00
	Aravali Power Company Private Ltd.			0.00	0.00
62				0.00	0.00
63	NTPC BHEL Power Projects Private Ltd.			0.00	0.00
64	Meja Urja Nigam Private Limited			0.00	0.00
65	BF-NTPC Energy Systems Ltd.			0.00	0.00
66				0.00	0.00
67	Nabinagar Power Generating Company Ltd.			0.00	0.00
68	Transformer and Electrical Kerala Ltd.			0.00	0.00
	National High Power Test Labortory Private			0.00	0.00
70	Ltd.			0.00	0.00
71	CIL NTPC Urja Private Ltd.			0.00	0.00
72	Anushakti Vidhyut Nigam Ltd.			0.00	0.00
73	Energy Efficiency Services Ltd.			0.00	0.00
74				0.00	0.00
75	Trincomalee Power Company Ltd.			0.00	0.00
	Bangladesh-India Friendship Power			0.00	0.00
	Company (Pvt.) Ltd. Hindustan Urvarak & Rasayan Limited			0.00	0.00
78	Konkan LNG Ltd			0.00	0.00
79				0.00	0.00
81	Sub Total			0.00	0.00
	Aggregate amount of impairment in the value			0.00	0.00
	of investments				
10	Total (net of impairment) of JV			0.00	0.00
11	Gross Total of Investments			0.00	0.00
34	Total			0.00	0.00
35	Details of Investments			0.00	0.00
	Aggregate amount of Unquoted Investments			0.00	0.00

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#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹)

As at	No. of shares	Face value	31.03.2021	31.03.2020
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
Valuation of Investments a	s per Note 1.		0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00

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## NOTE NO. 7 TO THE FS-NCA-INVESTMENTS

( Amount in ₹ )

	As at	No. of shares	Face value	31.03.2021	31.03.2020
001	Non-current financial assets (investments)			0.00	0.00
006	Long Term - Trade			0.00	0.00
007	Equity Instruments (fully paid up-unless otherwise stated)			0.00	0.00
800	Quoted			0.00	0.00
009	Joint Venture Companies			0.00	0.00
)10	PTC India Ltd.			0.00	0.00
70	International Coal Ventures Private Ltd.			0.00	0.00
75	BF-NTPC Energy Systems Ltd.			0.00	0.00
98				0.00	0.00
10	Cooperative Societies			0.00	0.00
11	Sub Total			0.00	0.00
12	Aggregate amount of impairment in the value of investments			0.00	0.00
15	Total			0.00	0.00
20				0.00	0.00
46	NTPC Employees Consumers and Thrift Co-operative Society Ltd. Korba			0.00	0.00
47	NTPC Employees Consumers and Thrift Cooperative Society Ltd. RSTPP			0.00	0.00
148	NTPC Employees Consumers Cooperative Society Ltd. Farakka			0.00	0.00
49	NTPC Employees Consumers Cooperative Society Ltd. Vindhyachal			0.00	0.00
50	NTPC Employees Consumers Cooperative Society Ltd. Anta			0.00	0.00
51	NTPC Employees Consumers Cooperative Society Ltd. Kawas			0.00	0.00
52	NTPC Employees Consumers Cooperativ Society Ltd. Kaniha	е		0.00	0.00

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# NOTE NO. 8 TO THE FS-NCA-TRADE RECEIVABLES As at

( Amount in ₹)

	As at	31.03.2021	31.03.2020
001	Non-current financial assets - Trade receivables	0.00	0.00
002	Unsecured, considered good	0.00	0.00
003	Credit impaired	0.00	0.00
004		0.00	0.00
005		0.00	0.00
006	Total	0.00	0.00

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NOT	E NO. 9 TO THE FS-NCA-LOANS		( Amount in ₹ )
	As at	31.03.2021	31.03.2020
001	Loans (Non Current)	0.00	0.00
004	Related Parties	0.00	0.00
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
800	Credit impaired	0.00	0.00
009		0.00	0.00
010	Employees(including accrued interest)	0.00	0.00
011	Secured	81,640,635.94	78,971,858.25
012	Unsecured	53,590,775.89	47,554,685.79
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	Secured	22,067,890.23	21,268,252.60
017	Unsecured	7,408,004.99	7,979,178.61
018	Loan to State Government in settlement of dues from customers (Unsecured)	0.00	0.00
019	Others	0.00	0.00
020	Secured	0.00	0.00
021	Unsecured	0.00	0.00
022	With significant increase in Credit Risk	0.00	0.00
023	Credit impaired	0.00	0.00
024	Less: Allowance for credit impaired loans	0.00	0.00
025	Sub Total	105,755,516.61	97,279,112.83
026		0.00	0.00
027	Total	105,755,516.61	97,279,112.83
028		0.00	0.00
029		0.00	0.00
030	Due from Directors and Officers of the Company	0.00	0.00
031	Directors	0.00	0.00
032	Officers	0.00	0.00
033		0.00	0.00
034	Loans to related parties include:	0.00	0.00
035	i)Key management personel	0.00	0.00
036	ii)Subsidiary companies	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)Others	0.00	0.00
039		0.00	0.00
054	Other loans represent loans given to	0.00	0.00
055	a) APIIC	0.00	0.00
060		0.00	0.00
061	RPD	0.00	0.00
062	i)Key management personel	0.00	0.00
063	ii)Subsidiary companies	0.00	0.00
064	iii)Joint Venture companies	0.00	0.00
065	iv)Others	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 9 TO THE FS-NCA-LOANS

( Amount in ₹)

	As at	31.03.2021	31.03.2020
066	Total	0.00	0.00

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NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS ( Amount in ₹) 31.03.2021 31.03.2020 001 Other Financial Assets (non current) 0.00 0.00 002 0.00 0.00 003 0.00 0.00 Share application money pending allotment in (Subsidiary Companies): 0.00 004 NTPC Electric Supply Company Ltd. 0.00 005 NTPC Vidyut Vyapar Nigam Ltd. 0.00 0.00 006 Nabinagar Power Generating Company Ltd. 0.00 0.00 007 Kanti Bijlee Utpadan Nigam Ltd. 0.00 0.00 800 Bhartiya Rail Bijlee Company Ltd. 0.00 0.00 009 Patratu Vidyut Utpadan Nigam Ltd. 0.00 0.00 010 NTPC Mining Limited 0.00 0.00 THDC Ltd. 011 0.00 0.00 **NEEPCO Ltd** 012 0.00 0.00 013 0.00 0.00 014 0.00 Total 0.00 015 Share application money pending allotment 0.00 0.00 (Joint Venture) Utility Powertech Ltd. 0.00 0.00 016 017 NTPC GE Power Services Pvt.Ltd. 0.00 0.00 018 NTPC-SAIL Power Company Ltd. 0.00 0.00 019 NTPC-Tamil Nadu Energy Company Ltd. 0.00 0.00 020 Ratnagiri Gas & Power Private Ltd. 0.00 0.00 021 Aravali Power Company Private Ltd. 0.00 0.00 022 0.00 0.00 023 NTPC BHEL Power Projects Private Ltd. 0.00 0.00 024 0.00 Meja Urja Nigam Private Limited 0.00 025 BF-NTPC Energy Systems Ltd. 0.00 0.00 026 0.00 Anushakti Vidhyut Nigam Ltd. 0.00 027 Nabinagar Power Generating Company Ltd. 0.00 0.00 028 Energy Efficiency Services Ltd. 0.00 0.00 029 National High Power Test Labortory Private Ltd. 0.00 0.00 030 0.00 0.00 031 CIL NTPC Urja Private Ltd. 0.00 0.00 032 Trincomalee Power Company Ltd. 0.00 0.00 033 Hindustan Urvarak & Rasayan Limited 0.00 0.00 034 Bangladesh-India Friendship Power Company 0.00 0.00 Private Ltd. **Sub Total** 0.00 035 0.00 036 0.00 0.00 Claims Recoverable 037 0.00 0.00 Finance Lease Recoverable 0.00 038 0.00 039 Mine Closure Deposit 0.00 0.00

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**Total** 

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0.00

0.00



As at         31.03.2021         31.03.2020           001         Other Non-current Assets         0.00         0.00           002         CAPITAL ADVANCES         0.00         0.00           005         Unsecured         0.00         0.00           005         Unsecured         0.00         0.00           006         Covered by Bank Guarantee         374,937,145.32         323,177,345.00           007         Others         23,546,752.62         89,609,596.63           008         Considered doubtful         0.00         0.00           009         Less: Allowance for bad & doubtful advances         0.00         0.00           101         Advances other than capital advances         0.00         0.00           102         Advances other than capital advances         0.00         0.00           103         Security deposits         1,436,400.00         1,436,400.00           104         Advances other than capital advances         0.00         0.00           103         Secured         0.00         0.00           104         Advances to Contractors & Suppliers         0.00         0.00           105         Advances to Contractors & Suppliers         0.00         0.00	NOT	E NO. 11 TO THE FS-NCA-OTHER NON-CURREN	T ASSETS	( Amount in ₹ )
002         CAPITAL ADVANCES         0.00         0.00           003         CAPITAL ADVANCES         0.00         0.00           004         Secured         0.00         0.00           005         Unsecured         374,937,145.32         323,177,345.00           007         Others         23,546,752.62         39,609,598.63           008         Considered doubtful         300.00         0.00           009         Less: Allowance for bad & doubtful advances         0.00         0.00           001         Sub-Total         398,483,897.94         412,786,943-58           011         40         0.00         0.00           012         Advances other than capital advances         0.00         0.00           013         Security deposits         1,436,400.00         1,436,400.00           019         Advances to Related parties         0.00         0.00           021         Advances to Related parties         0.00         0.00           022         Autority deposits         1,436,400.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful		As at	31.03.2021	31.03.2020
003         CAPITAL ADVANCES         0.00         0.00           004         Secured         0.00         0.00           005         Unsecured         0.00         0.00           006         Covered by Bank Guarantee         374,937,145.32         323,177,345.00           007         Others         23,546,752.62         89,609,598.63           008         Considered doubtful         0.00         0.00           009         Less: Allowance for bad & doubtful advances         0.00         0.00           001         Sub-Total         398,483,897.94         412,786,943.83           011         Advances other than capital advances         0.00         0.00           012         Advances to Related parties         0.00         0.00           013         Security deposits         1,436,400.00         1,436,400.00           014         Unsecured         0.00         0.00           025         Secured         0.00         0.00           026         Less: Allowance for bad & doubful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow Ar         0.00         0.00	001	Other Non-current Assets	0.00	0.00
004         Secured         0.00         0.00           005         Unsecured         0.00         0.00           006         Covered by Bank Guarantee         374,937,145,32         323,177,345,00           007         Others         23,546,752,62         89,609,598,63           008         Considered doubtful         0.00         0.00           009         Less: Allowance for bad & doubtful advances         0.00         0.00           101         Sub-Total         398,483,897,94         412,786,943,63           011         Advances other than capital advances         0.00         0.00           012         Advances to Felated parties         0.00         0.00           013         Security deposits         1,436,400,00         1,436,400,00           014         Advances to Contractors & Suppliers         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00	002		0.00	0.00
005         Unsecured         374,937,145,32         323,177,345,00           006         Covered by Bank Guarantee         374,937,145,32         323,177,345,00           007         Others         23,546,752,62         89,609,598,63           008         Considered doubtful         0.00         0.00           009         Less: Allowance for bad & doubtful advances         0.00         0.00           001         Sub-Total         398,483,897.94         412,786,943,63           011         Advances to ther than capital advances         0.00         0.00           012         Advances to Related parties         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,00           028         Receivable from MCP Escrow A/c         0.00         0.00           029         Advance lax & Lix & deducted at source         2,	003	CAPITAL ADVANCES	0.00	0.00
006         Covered by Bank Guarantee         374,937,145,32         323,177,345,00           007         Others         23,546,752,62         89,609,598,63           08         Considered doubtful         0.00         0.00           090         Less: Allowance for bad & doubtful advances         0.00         0.00           010         Sub-Total         398,483,997,94         412,786,943,63           011         Advances other than capital advances         0.00         0.00           012         Advances other than capital advances         0.00         0.00           013         Security deposits         1,436,400.00         1,436,400.00           014         Advances to Contractors & Suppliers         0.00         0.00           022         Secured         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubiful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00	004	Secured	0.00	0.00
007         Others         23,546,752.62         89,609,598.63           008         Considered doubtful         0.00         0.00           009         Less: Allowance for bad & doubtful advances         0.00         0.00           010         Sub-Total         398,483,897.94         412,786,943.63           011         Advances other than capital advances         0.00         0.00           013         Security deposits         1,436,400.00         1,436,400.00           019         Advances to Related parties         0.00         0.00           20         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           20         Considered Doubtful         0.00         0.00           20         Eess: Allowance for bad & doubtful advances         0.00         0.00           20         Eess: Allowance for bad & doubtful advances         0.00         0.00           20         Sub Total         1,436,400.00         1,348,400.00           21         Valor Total         1,436,400.00         1,374,625.00           22         Sub Total         2,447,428.10         1,3	005	Unsecured	0.00	0.00
008         Considered doubtful         0.00         0.00           009         Less: Allowance for bad & doubtful advances         0.00         0.00           010         Sub-Total         398,483,897,94         412,786,943,63           011         Advances other than capital advances         0.00         0.00           012         Advances to Related parties         0.00         1,436,400.00           019         Advances to Contractors & Suppliers         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         1,346,625.00           040         Less: - Provision for current tax         0.00         0.00           041         Sub Total         2,447,428.10         1,374,625.00           042         Deferred Payroll Expenses (Secured)	006	Covered by Bank Guarantee	374,937,145.32	323,177,345.00
009         Less: Allowance for bad & doubtful advances         0.00         0.00           010         Sub-Total         398,483,897.94         412,786,943.68           011         Advances other than capital advances         0.00         0.00           012         Advances to Related parties         0.00         1,436,400.00           013         Security deposits         1,436,400.00         1,436,400.00           012         Advances to Related parties         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           040         Less: Provision for current tax         0.00         0.00           041         Less: Provision for current tax         0.00         0.00           042         Sub Total         2,447,428.10	007	Others	23,546,752.62	89,609,598.63
010         Sub-Total         398,483,897.94         412,786,943.63           011         Advances other than capital advances         0.00         0.00           012         Advances to Related parties         0.00         1,436,400.00           019         Advances to Related parties         0.00         0.00           020         Advances to Contractors & Suppliers         0.00         0.00           021         Unsecured         0.00         0.00           022         Considered Doubtful         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Cess: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           029         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less: Provision for current tax         0.00         0.00           041         Sub Total         2,447,428.10         1,374,625.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secur	800	Considered doubtful	0.00	0.00
011         Advances other than capital advances         0.00         0.00           012         Advances to Related parties         0.00         1,436,400.00           019         Advances to Related parties         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           040         Less: Provision for current tax         0.00         0.00           041         Less: Provision for current tax         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         1,7618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         1,7618,156.45         18,035,323.47           045         Sub Total </td <td>009</td> <td>Less: Allowance for bad &amp; doubtful advances</td> <td>0.00</td> <td>0.00</td>	009	Less: Allowance for bad & doubtful advances	0.00	0.00
012         Advances other than capital advances         0.00         0.00           013         Security deposits         1,436,400.00         1,436,400.00           019         Advances to Related parties         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           038         Receivable from MCP Escrow A/c         0.00         0.00           040         Less: Provision for current tax         0.00         0.00           041         Less: Provision for current tax         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total	010	Sub-Total	398,483,897.94	412,786,943.63
013         Security deposits         1,436,400.00         1,436,400.00           019         Advances to Related parties         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less:- Provision for current tax         0.00         0.00           041         Sub Total         2,447,428.10         1,374,625.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           045         Sub Total         2,244,428.10         1,374,625.00           046         Deferred Posigin Currency Fluctu	011		0.00	0.00
019         Advances to Related parties         0.00         0.00           022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           040         Less:- Provision for current tax         0.00         0.00           041         Less:- Provision for current tax         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048	012	Advances other than capital advances	0.00	0.00
022         Advances to Contractors & Suppliers         0.00         0.00           023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less: Provision for current tax         0.00         0.00           041         Less: Provision for current tax         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,232.47           044         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,232.47           045         Sub Total         22,804,881.98         23,878,006.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00 <tr< td=""><td>013</td><td>Security deposits</td><td>1,436,400.00</td><td>1,436,400.00</td></tr<>	013	Security deposits	1,436,400.00	1,436,400.00
023         Secured         0.00         0.00           024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           040         Less: Provision for current tax         0.00         0.00           041         Less: Provision for current tax         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,023.47           045         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,2804,881,808.02         2,510,570,969.29           049         O.         0.00         0.00           050	019	Advances to Related parties	0.00	0.00
024         Unsecured         0.00         0.00           025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,006.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         Advances include amount due from the following Private Companies in which Directors of the Companies in wh	022	Advances to Contractors & Suppliers	0.00	0.00
025         Considered Doubtful         0.00         0.00           026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         Advances include amount due from the following Private Companies in which Directors of the Companies in which Directors of the Companies in which Directors in such Companies         0.00         0.00	023	Secured	0.00	0.00
026         Less: Allowance for bad & doubtful advances         0.00         0.00           027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           046         Total         2,224,648,608.02         2,510,570,969.29           049         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065	024	Unsecured	0.00	0.00
027         Sub Total         1,436,400.00         1,436,400.00           028         Receivable from MCP Escrow A/c         0.00         0.00           039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.06           048         Total         2,224,648,608.02         2,510,570,969.29           049         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           066 <td< td=""><td>025</td><td>Considered Doubtful</td><td>0.00</td><td>0.00</td></td<>	025	Considered Doubtful	0.00	0.00
028         Receivable from MCP Escrow A/c         0.00         0.00           039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         Advances include amount due from the following Private Companies in which Directors of the Com	026	Less: Allowance for bad & doubtful advances	0.00	0.00
039         Advance tax & tax deducted at source         2,447,428.10         1,374,625.00           040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           051         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00	027	Sub Total	1,436,400.00	1,436,400.00
040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.33         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           051         Advances include amount due from the following Private Companies in which Directors of the Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         8.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00	028	Receivable from MCP Escrow A/c	0.00	0.00
040         Less:- Provision for current tax         0.00         0.00           041         0.00         0.00           042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.33         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           051         Advances include amount due from the following Private Companies in which Directors of the Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         8.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00	039	Advance tax & tax deducted at source	2,447,428.10	1,374,625.00
041         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           051         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         0.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           067         Aravali Power Company Private Ltd.         0.00         0.00           068         NTPC-SCCL Global Ventures Private Ltd.         0.00			·	
042         Sub Total         2,447,428.10         1,374,625.00           043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           061         Advances include amount due from the following Private Company are also Directors in such Companies         0.00         0.00           062         Advances include amount due from the following Private Company are also Directors in such Companies         0.00         0.00           063         Activate Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd. <td></td> <td></td> <td></td> <td></td>				
043         Deferred Payroll Expenses (Secured)         17,618,156.45         18,035,323.47           044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           050         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         0.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           067         Aravali Power Company Private Ltd.         0.00         0.00           068         NTPC-SCCL Global Ventures Private Ltd.         0.00         0.00           070         Meja Urja Nigam Private Limited         0.00         0.00 <td></td> <td>Sub Total</td> <td></td> <td></td>		Sub Total		
044         Deferred Payroll Expenses (Unsecured)         5,186,725.53         5,842,677.19           045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           061         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         0.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           067         Aravali Power Company Private Ltd.         0.00         0.00           068         NTPC-SCCL Global Ventures Private Ltd.         0.00         0.00           069         NTPC BHEL Power Projects Private Ltd.         0.00         0.00           070         Meja Urja Nigam Private Limited         0.00         0.				
045         Sub Total         22,804,881.98         23,878,000.66           046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           061         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         0.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           067         Aravali Power Company Private Ltd.         0.00         0.00           068         NTPC-SCCL Global Ventures Private Ltd.         0.00         0.00           069         NTPC BHEL Power Projects Private Ltd.         0.00         0.00           070         Meja Urja Nigam Private Limited         0.00         0.00           071         Nabinagar Power Generating Company Ltd.         0.00         0.00 </td <td></td> <td></td> <td></td> <td></td>				
046         Deferred Foreign Currency Fluctuation Asset         1,799,476,000.00         2,071,095,000.00           048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           061         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         0.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           067         Aravali Power Company Private Ltd.         0.00         0.00           068         NTPC-SCCL Global Ventures Private Ltd.         0.00         0.00           069         NTPC BHEL Power Projects Private Ltd.         0.00         0.00           070         Meja Urja Nigam Private Limited         0.00         0.00           071         Nabinagar Power Generating Company Ltd.         0.00         0.00           072         National High Power Test Labortory Private Ltd.         0.00		• • • • • • • • • • • • • • • • • • • •		
048         Total         2,224,648,608.02         2,510,570,969.29           049         0.00         0.00         0.00           050         0.00         0.00         0.00           061         Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies         0.00         0.00           063         0.00         0.00         0.00           064         NTPC GE Power Services Pvt.Ltd.         0.00         0.00           065         0.00         0.00         0.00           066         Ratnagiri Gas & Power Private Ltd.         0.00         0.00           067         Aravali Power Company Private Ltd.         0.00         0.00           068         NTPC-SCCL Global Ventures Private Ltd.         0.00         0.00           069         NTPC BHEL Power Projects Private Ltd.         0.00         0.00           070         Meja Urja Nigam Private Limited         0.00         0.00           071         Nabinagar Power Generating Company Ltd.         0.00         0.00           072         National High Power Test Labortory Private Ltd.         0.00         0.00           074         CIL NTPC Urja Private Ltd.         0.00         0.00				
049       0.00       0.00         050       0.00       0.00         061       Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies       0.00       0.00         063       0.00       0.00       0.00         064       NTPC GE Power Services Pvt.Ltd.       0.00       0.00         065       0.00       0.00         066       Ratnagiri Gas & Power Private Ltd.       0.00       0.00         067       Aravali Power Company Private Ltd.       0.00       0.00         068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00				
050       0.00       0.00         061       Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies       0.00         063       0.00       0.00         064       NTPC GE Power Services Pvt.Ltd.       0.00       0.00         065       0.00       0.00         066       Ratnagiri Gas & Power Private Ltd.       0.00       0.00         067       Aravali Power Company Private Ltd.       0.00       0.00         068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00				
061       Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies       0.00       0.00         063       0.00       0.00       0.00         064       NTPC GE Power Services Pvt.Ltd.       0.00       0.00         065       0.00       0.00       0.00         066       Ratnagiri Gas & Power Private Ltd.       0.00       0.00         067       Aravali Power Company Private Ltd.       0.00       0.00         068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00				
064       NTPC GE Power Services Pvt.Ltd.       0.00       0.00         065       0.00       0.00         066       Ratnagiri Gas & Power Private Ltd.       0.00       0.00         067       Aravali Power Company Private Ltd.       0.00       0.00         068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00		Private Companies in which Directors of the		
065       0.00       0.00         066       Ratnagiri Gas & Power Private Ltd.       0.00       0.00         067       Aravali Power Company Private Ltd.       0.00       0.00         068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00	063		0.00	0.00
066       Ratnagiri Gas & Power Private Ltd.       0.00       0.00         067       Aravali Power Company Private Ltd.       0.00       0.00         068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00	064	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
067       Aravali Power Company Private Ltd.       0.00       0.00         068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00	065		0.00	0.00
068       NTPC-SCCL Global Ventures Private Ltd.       0.00       0.00         069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00	066	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00	067	Aravali Power Company Private Ltd.	0.00	0.00
069       NTPC BHEL Power Projects Private Ltd.       0.00       0.00         070       Meja Urja Nigam Private Limited       0.00       0.00         071       Nabinagar Power Generating Company Ltd.       0.00       0.00         072       National High Power Test Labortory Private Ltd.       0.00       0.00         074       CIL NTPC Urja Private Ltd.       0.00       0.00		• •		
070Meja Urja Nigam Private Limited0.000.00071Nabinagar Power Generating Company Ltd.0.000.00072National High Power Test Labortory Private Ltd.0.000.00074CIL NTPC Urja Private Ltd.0.000.00	069	NTPC BHEL Power Projects Private Ltd.		
071Nabinagar Power Generating Company Ltd.0.000.00072National High Power Test Labortory Private Ltd.0.000.00074CIL NTPC Urja Private Ltd.0.000.00		•		
072National High Power Test Labortory Private Ltd.0.000.00074CIL NTPC Urja Private Ltd.0.000.00				
074 CIL NTPC Urja Private Ltd. 0.00 0.00				
,				

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

( Amount in ₹)

	As at	31.03.2021	31.03.2020
077	Related Party (Adv)	0.00	0.00
078	Key Management personel	0.00	0.00
079	Subsidiary companies	0.00	0.00
080	Joint Venture companies	0.00	0.00
081	Contractors	0.00	0.00
082	Others	0.00	0.00
084		0.00	0.00
085	Total	0.00	0.00

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NOT	NOTE NO. 12 TO THE FS-CA-INVENTORIES (Amount in ₹)			
	As at	31.03.2021	31.03.2020	
001	INVENTORIES	0.00	0.00	
002		0.00	0.00	
003	Coal	1,293,481,712.46	530,693,477.72	
004	Fuel oil	221,275,469.56	213,916,508.70	
005	Naphtha	0.00	0.00	
006	Stores and spares	2,434,045,104.96	2,507,691,473.02	
007	Chemicals & consumables	84,873,916.88	82,869,440.00	
800	Loose tools	1,320,987.78	1,481,824.88	
009	Steel Scrap	10,032,350.58	4,556,896.18	
010	Others*	578,527,487.01	618,290,642.20	
011	Sub Total	4,623,557,029.23	3,959,500,262.70	
012	Less: Provision for shortages	1,116,991.43	1,959,334.78	
013	Less: Provision for obsolete/ unservicable/dimunition in value of surplus inventory	22,832,831.53	22,832,831.53	
014		0.00	0.00	
015	Total	4,599,607,206.27	3,934,708,096.39	
016	Inventories include material in transit	0.00	0.00	
017	Coal	0.00	0.00	
018	Fuel oil	0.00	0.00	
019	Naphtha	0.00	0.00	
020	Stores and spares	14,287,641.72	24,889,533.24	
021	Chemicals & consumables	0.00	30,471.33	
022	Loose tools	0.00	0.00	
023	Others	0.00	527,190.00	
024		0.00	0.00	
025	Inventory items other than steel scrap have been valued considering Note 1.	0.00	0.00	

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#### NOTE NO. 13 TO THE FS-CA-INVESTMENTS

( Amount in ₹ )

	As at	No. of shares	Face value	31.03.2021	31.03.2020
1	CURRENT INVESTMENTS			0.00	0.00
2	(Valuation as per Note 1)			0.00	0.00
3				0.00	0.00
3	Investment in Mutual Funds (Details as under)			0.00	0.00
4	SBI-Magnum Insta Cash Fund-DDR			0.00	0.00
5	SBI Premier Liquid Fund Super-IP-DDR			0.00	0.00
6	SBI-SHF Ultra Short Term Fund-IP-DDR			0.00	0.00
7	UTI Money Market- IP-Direct-Growth			0.00	0.00
8	IDBI-Liquid plan- Direct-Growth			0.00	0.00
9	Canara Robeco Liquid Fund Super-IP-DDR			0.00	0.00
0	Canara Robeco Treasury Advantage Fund Super-IP-DDR			0.00	0.00
1	IDBI Liquid Fund-DDR			0.00	0.00
2	SBI Premier Liquid fund-Direct DDR (Ash Fund)			0.00	0.00
3	UTI Liquid CashPlan - IP - DDR (Ash Funds)			0.00	0.00
4	IDBI Liquid Fund - DDR - (Ash Funds)			0.00	0.00
5	Baroda Liquid Fund - Direct - Growth			0.00	0.00
6	Sub Total			0.00	0.00
7				0.00	0.00
2	Unquoted Investments			0.00	0.00
4				0.00	0.00
6	TOTAL			0.00	0.00
7				0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

( Amount in ₹)

			(7 mileant iii v)
	As at	31.03.2021	31.03.2020
001	TRADE RECEIVABLES (current)*	0.00	0.00
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004	Unsecured, considered good	15,464,355.69	0.00
005	Credit impaired	0.00	0.00
006	Sub-Total _	15,464,355.69	0.00
007	Total	15,464,355.69	0.00
800	Less: Allowance for credit impaired receivables	0.00	0.00
009	Total _	15,464,355.69	0.00
010	Less: Discom Clearing	0.00	0.00
012	Grand Total	15,464,355.69	0.00
013	* After adjustment for Unbilled Revenue	0.00	0.00
014	Long-term trade receivables	0.00	0.00
015	TCS Clearing	0.00	0.00
016	Discom Clearing	0.00	0.00

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435,387.81

#### RIHAND SUPER THERMAL POWER STATION

010 Total

NOTE NO. 15 TO THE FS-CA-CASH AND CASH EQUIVALENTS ( Amount in ₹) 31.03.2021 31.03.2020 **CASH & BANK BALANCES** 0.00 0.00 001 002 Cash & Cash Equivalents 0.00 0.00 435,387.81 003 Balances with Banks 240,123.40 150,000.00 004 Cheques & Drafts on hand 0.00 005 Cash on hand 0.00 0.00 006 Others (stamps in hand) 0.00 0.00 Bank deposits with original maturity upto three 007 0.00 0.00 months Balances with RBI 0.00 0.00 800 009 0.00 0.00

390,123.40

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	As at	31.03.2021	31.03.2020
001	Other Bank Balances	0.00	0.00
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	SubTotal	0.00	0.00
005	Interest accrued on deposits	0.00	0.00
006	· ·	0.00	0.00
007	Total	0.00	0.00
800		0.00	0.00
009	Earmarked balances with banks consist of :	0.00	0.00
010	Unpaid dividend account balance	0.00	0.00
011	Towards public deposit repayment reserve	0.00	0.00
012	Towards redemption of bonds due for repayment within one year	0.00	0.00
013	Security with Government/other authorities	0.00	0.00
014	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
015	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund	0.00	0.00
016	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
017	Deposits with original maturity upto three months as per court orders	0.00	0.00
018	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
020	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
021	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
022	Others	0.00	0.00
023		0.00	0.00
024		0.00	0.00
025		0.00	0.00
026	Sub-total	0.00	0.00
030	Total	0.00	0.00
031		0.00	0.00
032	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
033	Bank deposits with original maturity of more than three months but not more than twelve monthsother than earmarked	0.00	0.00
034	Earmarked bank balances (current account)	0.00	0.00

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As at		E NO. 17 TO THE FS-CA-LOANS		( Amount in ₹ )
001         Current financial assets - Loans         0.00         0.00           002         Loans (current)-including interest accrued         0.00         0.00           004         Related Parties         0.00         0.00           005         Secured         0.00         0.00           007         With significant increase in Credit Risk         0.00         0.00           008         Credit impaired         0.00         0.00           010         Secured         18.612,658.77         18,709,777.43           011         Secured         49,807,019.88         52,241,750.97           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Lean to State Government in settlement of dustrence subsecured         0.00         0.00           017         Credit impaired         0.00         0.00           018         Others         0.00         0.00           019         Secured         0.00         0.00           010         Unsecured         0.00         0.00           010<			31.03.2021	
0.04         Related Parties         0.00         0.00           0.05         Secured         0.00         0.00           0.06         Un-Secured         0.00         0.00           0.07         With significant increase in Credit Risk         0.00         0.00           0.09         Credit impaired         0.00         0.00           0.00         Employees         0.00         0.00           0.11         Secured         18,612,659,77         18,700,977.43           0.12         Unsecured         18,612,659,77         18,700,977.43           0.13         With significant increase in Credit Risk         0.00         0.00           0.14         Credit impaired         0.00         0.00           0.15         Less: Employee Loans Discounting         0.00         0.00           0.16         Class: Employee Loans Discounting         0.00         0.00           0.17         Class: Employee Loans Discounting         0.00         0.00 </td <td>001</td> <td></td> <td></td> <td></td>	001			
005         Secured         0.00         0.00           006         Un-Secured         0.00         0.00           07         With significant increase in Credit Risk         0.00         0.00           08         Credit impaired         0.00         0.00           010         Employees         0.00         0.00           011         Secured         18,612,569.77         18,700,977.43           12         Unsecured         49,807,019.88         52,241,750.99           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less : Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Others         0.00         0.00           019         Secured         0.00         0.00           019         Secured         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00 <td< td=""><td>002</td><td>Loans (current)-including interest accrued</td><td>0.00</td><td>0.00</td></td<>	002	Loans (current)-including interest accrued	0.00	0.00
006         Un-Secured         0.00         0.00           007         With significant increase in Credit Risk         0.00         0.00           008         Credit impaired         0.00         0.00           009         0.00         0.00         0.00           010         Employees         0.00         0.00           011         Secured         18.612,589,77         18,709,977,43           012         Unsecured         49.807,019.88         52,241,750.99           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         Coscured         0.00         0.00           018         Secured         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit im	004	Related Parties	0.00	0.00
007         With significant increase in Credit Risk         0.00         0.00           008         Credit impaired         0.00         0.00           009         0.00         0.00           010         Employees         0.00         0.00           011         Secured         18,612,569.77         18,700,977.43           12         Unsecured         49,807,019.88         52,241,750.99           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dus from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Unsecured         0.00         0.00           024         Less: Allowance for credit imp	005	Secured	0.00	0.00
008         Credit impaired         0.00         0.00           009         Employees         0.00         0.00           011         Secured         18,612,569.77         18,700,977.43           012         Unsecured         49,807,019.88         52,241,750.99           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Leas: Employee Loans Discounting         0.00         0.00           016         Loan State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         Credit impaired         0.00         0.00           018         Others         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Credit impaired loans         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42	006	Un-Secured	0.00	0.00
008         Credit impaired         0.00         0.00           009         Employees         0.00         0.00           011         Secured         18,612,569.77         18,700,977.43           012         Unsecured         49,807,019.88         52,241,750.99           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Leas: Employee Loans Discounting         0.00         0.00           016         Loan State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         Credit impaired         0.00         0.00           018         Others         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Credit impaired loans         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42	007	With significant increase in Credit Risk	0.00	0.00
009         Employees         0.00         0.00           011         Secured         18,612,569,77         18,700,977,43           012         Unsecured         49,807,019,88         52,241,750,99           013         With significant increase in Credit Risk         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           018         Others         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Credit impaired         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         Use from Directors and Officers of the Company         0.00         0.00           027         Due from Directors and Officers of the Companies	800		0.00	0.00
010         Employees         0.00         0.00           011         Secured         18,612,569,77         18,700,977,43           012         Unsecured         49,807,019,88         52,241,750,99           013         With significant increase in Credit Risk         0.00         0.00           014         Credit Impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Credit impaired         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,342,728.42           026         Directors         0.00         0.00 <td< td=""><td>009</td><td>·</td><td>0.00</td><td>0.00</td></td<>	009	·	0.00	0.00
011         Secured         18,612,569.77         18,700,977.43           012         Unsecured         49,807,019.88         52,241,750.99           013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           015         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Others         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         Less: Allowance for credit impaired loans         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         0.00         0.00	010	Employees	0.00	
012 Unsecured         49,807,019.88         52,241,750.99           013 With significant increase in Credit Risk         0.00         0.00           14 Credit impaired         0.00         0.00           015 Less : Employee Loans Discounting         0.00         0.00           016 Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017 Secured         0.00         0.00           018 Others         0.00         0.00           020 Unsecured         0.00         0.00           021 With significant increase in Credit Risk         0.00         0.00           022 Credit impaired         0.00         0.00           023 Credit impaired         0.00         0.00           024 Less: Allowance for credit impaired loans         0.00         0.00           025 Total (Loans)         68,419,589.65         70,942,728.42           026 Directors         0.00         0.00           027 Due from Directors and Officers of the Company         0.00         0.00           028 Directors         0.00         0.00           030 Fileres         0.00         0.00           031 Loans to related parties include:         0.00         0.00           032 Ji/Key management personel		• •		
013         With significant increase in Credit Risk         0.00         0.00           014         Credit impaired         0.00         0.00           15         Less: Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         0.00         0.00           026         Total (Loans)         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         Forest         0.00         0.00           031         Loans to related parties i	012	Unsecured		
014	013	With significant increase in Credit Risk		
015         Less : Employee Loans Discounting         0.00         0.00           016         Loan to State Government in settlement of dues from customers (Unsecured)         0.00         0.00           017         0.00         0.00           018         Secured         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         Due from Directors and Officers of the Company         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         Loans to related parties include:         0.00         0.00           031         Loans to				
016 both classification customers (Unsecured)         0.00 both classification customers (Unse	015	•	0.00	0.00
017         Others         0.00         0.00           018         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         jiKey management personel         0.00         0.00           033         jiKey management personel         0.00         0.00           034         KBUNL         0.00         0.00	016	Loan to State Government in settlement of	0.00	0.00
018         Others         0.00         0.00           019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         I)ficers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00	017	,	0.00	0.00
019         Secured         0.00         0.00           020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         RGPPL         0.00         0.00	018	Others		
020         Unsecured         0.00         0.00           021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         Due from Directors and Officers of the Company         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         jikey management personel         0.00         0.00           033         iijSubsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVN         0.00         0.00           037         iii)Joint Venture companie			0.00	
021         With significant increase in Credit Risk         0.00         0.00           022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00      <				
022         Credit impaired         0.00         0.00           023         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         Officers         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)Others         0.00         0.00           059         RPD         0.00         0.00           061         ii)Subsidiary compan				
023         Less: Allowance for credit impaired loans         0.00         0.00           024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00 <td></td> <td></td> <td></td> <td></td>				
024         Less: Allowance for credit impaired loans         0.00         0.00           025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           039         RPD         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary com				
025         Total (Loans)         68,419,589.65         70,942,728.42           026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies         0.00         0.00           062         iii)Joint Venture companies<		Less: Allowance for credit impaired loans		
026         0.00         0.00           027         Due from Directors and Officers of the Company         0.00         0.00           028         Directors         0.00         0.00           029         Officers         0.00         0.00           030         0.00         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies         0.00         0.00           062         iii)Joint Venture companies         0.00         0.00           063         iv)Others<				
027 Due from Directors and Officers of the Company         0.00         0.00           028 Directors         0.00         0.00           029 Officers         0.00         0.00           030 Loans to related parties include:         0.00         0.00           031 Loans to related parties include:         0.00         0.00           032 i)Key management personel         0.00         0.00           033 ii)Subsidiary companies         0.00         0.00           034 KBUNL         0.00         0.00           035 RGPPL         0.00         0.00           036 NVVN         0.00         0.00           037 iii)Joint Venture companies         0.00         0.00           038 iv)Others         0.00         0.00           059 RPD         0.00         0.00           060 i)Key management personel         0.00         0.00           061 ii)Subsidiary companies         0.00         0.00           062 iii)Joint Venture companies         0.00         0.00           063 iv)Others         0.00         0.00		( )		
028       Directors       0.00       0.00         029       Officers       0.00       0.00         030       0.00       0.00       0.00         031       Loans to related parties include:       0.00       0.00         032       i)Key management personel       0.00       0.00         033       ii)Subsidiary companies       0.00       0.00         034       KBUNL       0.00       0.00         035       RGPPL       0.00       0.00         036       NVVN       0.00       0.00         037       iii)Joint Venture companies       0.00       0.00         038       iv)others       0.00       0.00         059       RPD       0.00       0.00         060       i)Key management personel       0.00       0.00         061       ii)Subsidiary companies       0.00       0.00         062       iii)Joint Venture companies       0.00       0.00         063       iv)Others       0.00       0.00         064       0.00       0.00				
030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies         0.00         0.00           062         iii)Joint Venture companies         0.00         0.00           063         iv)Others         0.00         0.00           064         0.00         0.00	028		0.00	0.00
030         0.00         0.00           031         Loans to related parties include:         0.00         0.00           032         i)Key management personel         0.00         0.00           033         ii)Subsidiary companies         0.00         0.00           034         KBUNL         0.00         0.00           035         RGPPL         0.00         0.00           036         NVVN         0.00         0.00           037         iii)Joint Venture companies         0.00         0.00           038         iv)others         0.00         0.00           059         RPD         0.00         0.00           060         i)Key management personel         0.00         0.00           061         ii)Subsidiary companies         0.00         0.00           062         iii)Joint Venture companies         0.00         0.00           063         iv)Others         0.00         0.00           064         0.00         0.00	029	Officers	0.00	0.00
032 i)Key management personel       0.00       0.00         033 ii)Subsidiary companies       0.00       0.00         034 KBUNL       0.00       0.00         035 RGPPL       0.00       0.00         036 NVVN       0.00       0.00         037 iii)Joint Venture companies       0.00       0.00         038 iv)others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	030		0.00	0.00
032 i)Key management personel       0.00       0.00         033 ii)Subsidiary companies       0.00       0.00         034 KBUNL       0.00       0.00         035 RGPPL       0.00       0.00         036 NVVN       0.00       0.00         037 iii)Joint Venture companies       0.00       0.00         038 iv)others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	031	Loans to related parties include:	0.00	0.00
033       ii)Subsidiary companies       0.00       0.00         034       KBUNL       0.00       0.00         035       RGPPL       0.00       0.00         036       NVVN       0.00       0.00         037       iii)Joint Venture companies       0.00       0.00         038       iv)others       0.00       0.00         039       0.00       0.00       0.00         059       RPD       0.00       0.00         060       i)Key management personel       0.00       0.00         061       ii)Subsidiary companies       0.00       0.00         062       iii)Joint Venture companies       0.00       0.00         063       iv)Others       0.00       0.00         064       0.00       0.00		-	0.00	
035       RGPPL       0.00       0.00         036       NVVN       0.00       0.00         037       iii) Joint Venture companies       0.00       0.00         038       iv) others       0.00       0.00         039       0.00       0.00         059       RPD       0.00       0.00         060       i) Key management personel       0.00       0.00         061       ii) Subsidiary companies       0.00       0.00         062       iii) Joint Venture companies       0.00       0.00         063       iv) Others       0.00       0.00         064       0.00       0.00		· · · ·	0.00	
036       NVVN       0.00       0.00         037       iii) Joint Venture companies       0.00       0.00         038       iv) others       0.00       0.00         039       0.00       0.00       0.00         059       RPD       0.00       0.00         060       i) Key management personel       0.00       0.00         061       ii) Subsidiary companies       0.00       0.00         062       iii) Joint Venture companies       0.00       0.00         063       iv) Others       0.00       0.00         064       0.00       0.00	034	KBUNL	0.00	0.00
037 iii) Joint Venture companies       0.00       0.00         038 iv) others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i) Key management personel       0.00       0.00         061 ii) Subsidiary companies       0.00       0.00         062 iii) Joint Venture companies       0.00       0.00         063 iv) Others       0.00       0.00         064       0.00       0.00	035	RGPPL	0.00	0.00
038 iv)others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	036	NVVN	0.00	0.00
038 iv)others       0.00       0.00         039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	037	iii)Joint Venture companies	0.00	0.00
039       0.00       0.00         059 RPD       0.00       0.00         060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00		•		
059       RPD       0.00       0.00         060       i)Key management personel       0.00       0.00         061       ii)Subsidiary companies       0.00       0.00         062       iii)Joint Venture companies       0.00       0.00         063       iv)Others       0.00       0.00         064       0.00       0.00		, , , , , , , , , , , , , , , , , , ,		
060 i)Key management personel       0.00       0.00         061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00	059	RPD	0.00	
061 ii)Subsidiary companies       0.00       0.00         062 iii)Joint Venture companies       0.00       0.00         063 iv)Others       0.00       0.00         064       0.00       0.00				
062 iii) Joint Venture companies       0.00       0.00         063 iv) Others       0.00       0.00         064       0.00       0.00		· · · · · · · · · · · · · · · · · · ·		
063 iv)Others       0.00       0.00         064       0.00       0.00		· · · · · · · · · · · · · · · · · · ·		
0.00 0.00		·		
		,		
	065	Total	0.00	0.00

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#### RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

( Amount in ₹)

NOI	ENO. 10 TO THE FS-CA-OTHER FINANCIAL ASSETS		( Alliount in 🔻 )
	As at	31.03.2021	31.03.2020
001	Other Financial Assets (current)	0.00	0.00
002		0.00	0.00
003	ADVANCES	0.00	0.00
004		0.00	0.00
005	Related Parties	0.00	0.00
006	Secured	0.00	0.00
007	Un-Secured	75,433,495.80	583,008,854.62
308	Considered doubtful	0.00	0.00
009	Considered doubtful	0.00	0.00
010	Employees	0.00	0.00
	Unsecured		
012		2,693,948.65	3,465,523.87
013	Considered Doubtful	0.00	0.00
014		0.00	0.00
020	Others	0.00	0.00
021	Secured	0.00	0.00
022	Unsecured	0.00	0.00
023	Considered Doubtful	0.00	0.00
024		0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026		0.00	0.00
033	Total (Advances)	78,127,444.45	586,474,378.49
044		0.00	0.00
045	Claims Recoverable	0.00	0.00
046	Secured	0.00	0.00
047	Unsecured, considered good	3,413,667.00	95,503,503.01
048	Considered Doubtful	0.00	0.00
049	Less:- Allowance for doubtful claims	0.00	0.00
050	Others-Claims Recoverable	0.00	0.00
051	Others-Glaims (Vecoverable	0.00	0.00
	Habillad Davanus		
	Unbilled Revenue	0.00	0.00
053	Hedging cost recoverable from beneficiaries	0.00	0.00
054	Derivative MTM Asset	0.00	0.00
055	Finance Lease Receivable	0.00	0.00
056	Mine Closure Deposit	0.00	0.00
057	Other Accrued Income	0.00	0.00
058	Secured,Considered Good	0.00	0.00
059	Unsecured, considered good	84,093,847.15	6,200,899.09
060	Credit impaired	0.00	0.00
061	Sub-Total	84,093,847.15	6,200,899.09
062	Less: Allowance for credit impaired receivables	0.00	0.00
063	Total	0.00	0.00
064		0.00	0.00
065	Others*	0.00	0.00
066	Total	165,634,958.60	688,178,780.59
067	* Other include amount recoverable from	0.00	0.00
551	contractors and other parties towards hire charges,	0.00	0.00

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rent/electricity etc.





#### RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

( Amount in ₹)

NOI	E NO. 10 TO THE FS-CA-OTHER FINANCIAL ASSETS		( Amount in ( )
	As at	31.03.2021	31.03.2020
068	Advances to related parties include:	0.00	0.00
069	i)Key management personel	0.00	0.00
070	ii)Subsidiary companies	0.00	0.00
071	iii)Joint Venture companies	0.00	0.00
072	iv)Contractors	0.00	0.00
073	v)Others	0.00	0.00
074		0.00	0.00
075	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
076		0.00	0.00
077		0.00	0.00
078	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
079	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
080	Aravali Power Company Private Ltd.	0.00	0.00
081	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
082	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
083	Meja Urja Nigam Private Limited	0.00	0.00
084	Nabinagar Power Generating Company Ltd.	0.00	0.00
085	National High Power Test Labortory Private Ltd.	0.00	0.00
086	International Coal Ventures Private Ltd.	0.00	0.00
087	CIL NTPC Urja Private Ltd.	0.00	0.00
089	Bangladesh-India Friendship Power Co. Pvt.Ltd	0.00	0.00
090	TCS Clearing	0.00	0.00
091	Related Party (Adv)- Employee	0.00	0.00
092	Related Party (Adv)- Subsidiaries	0.00	0.00
093	Related Party (Adv)- Joint Ventures	0.00	0.00
094	Related Party (Adv)- Contractors	0.00	0.00
095	Related Party (Adv)- Others	75,433,495.80	583,008,854.62
096	· · ·	0.00	0.00
097		0.00	0.00
098		0.00	0.00
099		0.00	0.00
100	Total	75,433,495.80	583,008,854.62
		··	

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	E NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS		( Amount in ₹ )
NOI	As at	31.03.2021	31.03.2020
001	OTHER CURRENT ASSETS	0.00	0.00
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	900,636.00	191,392,850.00
004	ADVANCES	0.00	0.00
005	7.5 17 11 0 2 0	0.00	0.00
006	Related Parties	0.00	0.00
007	Secured	0.00	0.00
800	Un-Secured	19,099,073.00	22,267,172.00
009	Considered doubtful	0.00	0.00
010	00.000000000000000000000000000000000000	0.00	0.00
011	Employees(including imprest)	0.00	0.00
012	Secured	0.00	0.00
013	Unsecured	310,414.00	313,974.00
014	Considered Doubtful	0.00	0.00
015		0.00	0.00
016	Contractors & Suppliers	0.00	0.00
017	Secured	0.00	0.00
018	Unsecured	185,761,689.46	195,835,792.94
019	Considered Doubtful	0.00	0.00
020	Considered Bodbildi	0.00	0.00
021	Others**	0.00	0.00
022	Secured	0.00	0.00
023	Unsecured	24,275,748.00	12,449,859.00
024	Considered Doubtful	0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026	Receivable from MCP Escrow A/c	0.00	0.00
027	Deferred Payroll Expenses (Secured)	2,319,227.24	2,488,898.40
028	Deferred Payroll Expenses (Unsecured)	3,778,654.23	3,815,730.86
029	Sub-total	6,097,881.47	6,304,629.26
030	Interest accrued on :	0.00	0.00
031	Advances to contractors	0.00	0.00
032	, iditaliboo to communici	0.00	0.00
033	Claims Recoverable	0.00	0.00
034	Secured	0.00	0.00
035	Unsecured, considered good	227,947,046.81	207,959,344.25
036	Considered Doubtful	26,600,000.00	26,600,000.00
037	Less:- Allowance for doubtful claims	26,600,000.00	26,600,000.00
038	2000. Allowarios for addition diamic	0.00	0.00
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041	Assets Held for Disposal	42,084.39	197,831.40
041	Others	5,071,018.00	4,507,295.00
042	Culcio	0.00	4,507,295.00
043	Total (Other Current Assets)	469,505,591.13	641,228,747.85
044	**Include Prepaid Expenses	24,275,748.00	12,449,859.00
046	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	812,756.00	812,756.00
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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

( Amount in ₹)

NOI	E NO. 19 TO THE F3-CA-OTHER CORRENT ASSETS		( Alliount in \ )
	As at	31.03.2021	31.03.2020
047	*Includes deposited with courts	0.00	0.00
048	*Includes deposited with LIC for annuity payments	0.00	0.00
049	* Includes deposits with WRD / against BG in r/o finance lease	0.00	0.00
050	Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
052	Advances to related parties include:	0.00	0.00
053	i)Key management personel	0.00	0.00
054	ii)Subsidiary companies	0.00	0.00
055	iii)Joint Venture companies	0.00	0.00
056	Contractors	0.00	0.00
057	Others	0.00	0.00
058		0.00	0.00
059	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
060		0.00	0.00
061		0.00	0.00
062	Related Party (Adv)- Employee	0.00	0.00
063	Related Party (Adv)- Subsidiaries	0.00	0.00
064	Related Party (Adv)- Joint Venture	1,407,513.00	0.00
065	Related Party (Adv)- Contractors	17,340,591.00	21,706,489.00
066	Related Party (Adv)- Others	350,969.00	560,683.00
067	Total	19,099,073.00	22,267,172.00
068		0.00	0.00

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NOT	NOTE NO. 20 TO THE FSREGULATORY DEFERRAL ACCOUNT DEBIT BALANCES (Amount in ₹)				
	As at	31.03.2021	31.03.2020		
001	On account of Exchange Differences	-23,349,137.66	-15,205,072.81		
002	On account of employee benefit exp	381,915,581.00	381,915,581.00		
003	Regulatory deferred account - deferred	0.00	0.00		
004	Deferred asset for ash transportation	312,520,012.83	0.00		
005	Deferred asset for Arbitration Award	0.00	0.00		
006	Total	671,086,456.17	366,710,508.19		

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NOTE NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAPITAL ( Amount in ₹) 31.03.2021 31.03.2020 **SHARE CAPITAL** 0.00 001 0.00 002 0.00 0.00 **Equity Share Capital** 003 **Authorised** 0.00 0.00 004 10,000,000,000 equity shares of Rs.10/- each 0.00 0.00 (Previous year 10,000,000,000 eq shares of Rs.10/- each) Issued, Subscribed and fully Paid-up 005 0.00 0.00 9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 0.00 0.00 006 9,894,557,280 equity shares of Rs.10/- each) 007 0.00 0.00 800 0.00 Total 0.00 009 During FY 2018-19, the company has issued 0.00 0.00 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares 0.00 010 The holders of the equity shares are entitled to 0.00 receive dividends as declared from time to time. and are entitled to one vote per share at meetings of the company. 011 Details of shareholders holding more than 5% 0.00 0.00 shares in the company 012 - President of India 0.00 0.00 013 No. of Shares 0.00 0.00 014 % of holding 0.00 0.00 - Life Insurance Corporation of India/ICICI 015 0.00 0.00 Prudential Mutual Fund 016 No. of Shares 0.00 0.00 017 % of holding 0.00 0.00

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	AND SUPER THERMAL POWER STATION		11
NOT	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2021	31.03.2020
001	RESERVE AND SURPLUS	0.00	0.00
002		0.00	0.00
003	Capital Reserve	0.00	0.00
004	As per last financial statements	0.00	0.00
006	Add : Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
800	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	Sub-Total	0.00	0.00
011	Securities Premium Account	0.00	0.00
012	As per last financial statements	0.00	0.00
013	Add: Additions during the year/period	0.00	0.00
014	Less: Adjustments during the year/period	0.00	0.00
015	Sub-Total	0.00	0.00
016	Bonds Redemption Reserve	0.00	0.00
017	As per last financial statements	0.00	0.00
018	Add: Transfer from Surplus	0.00	0.00
019	Less: Transfer to surplus on redemption	0.00	0.00
020	Less: Adjustments during the year/ period	0.00	0.00
021	Sub-Total	0.00	0.00
022	Capital Redemption Reserve	0.00	0.00
023	As per last financial statements	0.00	0.00
024	Add: Transfer from Surplus	0.00	0.00
025	Less: Transfer to surplus on redemption	0.00	0.00
026	Less: Adjustments during the year/ period	0.00	0.00
027	Sub-Total	0.00	0.00
028	Share Application money Allotment	0.00	0.00
029	As per last financial statements	0.00	0.00
030	Add: Addition during the year	0.00	0.00
031	Less: Utlised for allotment during the year	0.00	0.00
	• •	0.00	0.00
032	Less: Adjustments during the year/ period  Sub-Total		
033		0.00	0.00
034	Fly-ash utilisation reserve Fund	0.00	0.00
035	As per last financial statements	8,220,860.44	0.00
036	Transferred to CC	0.00	0.00
037	Add:Transfer from revenue from operations	15,712,224.90	9,410,400.00
038	Add:Transfer from other income	0.00	0.00
039	Less: Utilised during the year	0.00	0.00
040	Tangible assets	0.00	0.00
041	Employee benefit expenses	0.00	0.00
042	Generation,admn. and other expenses	-23,933,085.34	-1,189,539.56
043	Tax Expenses	0.00	0.00
044	Sub-Total	0.00	8,220,860.44
045	Special allowance Reserve Fund	0.00	0.00
046	As per last financial statements	0.00	0.00
047	Add: Addition during the year	0.00	0.00

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NOT	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2021	31.03.2020
048	Less: Utlised for allotment during the year	0.00	0.00
049	Less: Adjustments during the year/ period	0.00	0.00
050	SUB-TOTAL	0.00	0.00
053	Corporate social responsibility (CSR) reserve	0.00	0.00
054	As per last financial statements	0.00	0.00
055	Add : Transfer from surplus	0.00	0.00
056	Less:-Write back during the year	0.00	0.00
057	Sub-Total	0.00	0.00
058	General Reserve	0.00	0.00
059	As per last financial statements	0.00	0.00
060	Add: Transfer from Surplus	0.00	0.00
061	Less: Transfer to Surplus	0.00	0.00
062	Less: Write back during the year /period	0.00	0.00
063	Less: Adjustments during the year /period	0.00	0.00
064	Sub-Total	0.00	0.00
065		0.00	0.00
066	Retained earnings	0.00	0.00
067	As per last financial statements	156,537,113,839.05	143,024,832,290.02
068	Add(Less):-Changes in accounting policy / prior period errors	0.00	0.00
069	Add(Less):-Profit (Loss) after tax for the year from Statement of Profit & Loss	11,119,632,362.03	13,512,281,549.03
070		0.00	0.00
071	Add: Write back from Bond Redemption Reserve	0.00	0.00
072	Add: Write back from Capital Reserve	0.00	0.00
073	Add: Write back from Foreign Project Reserve	0.00	0.00
074	Add: Write back from CSR Reserve	0.00	0.00
075	Add: Write back from General Reserve	0.00	0.00
076	Less: Transfer to Bonds Redemption Reserve	0.00	0.00
077	Less: Transfer to Special Allowance Reserve Fund	0.00	0.00
078	Less: Transfer to Foreign Project Reserve	0.00	0.00
080	Less:Transfer to Capital Reserve	0.00	0.00
081	Less:Transfer to CSR Reserve	0.00	0.00
082	Less:Transfer to General Reserve	0.00	0.00
083	Less:Interim Dividend Paid	0.00	0.00
084	Less:Tax on Interim Dividend Paid	0.00	0.00
085	Less:Final Dividend Paid	0.00	0.00
086	Less:Tax on Final Dividend Paid	0.00	0.00
087	Less: Issue of bonus debenture	0.00	0.00
880	Less: Tax on issue of bonus debenture	0.00	0.00
089	Sub-Total	167,656,746,201.08	156,537,113,839.05
090		0.00	0.00
091	Remeasurement of defined benefit plans	0.00	0.00
092	As per last financial statements	-172,809,279.53	-119,460,048.36
093	Add/(Less):- Actuarial Gains/loss through OCI	-24,061,329.38	-53,349,231.17
094	Sub-Total	-196,870,608.91	-172,809,279.53
095		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

( Amount in ₹)

	As at	31.03.2021	31.03.2020
096	FVTOCI Reserve	0.00	0.00
097	As per last financial statements	0.00	0.00
098	Add(Less):-Net gain/loss of equity instruments through OCI	0.00	0.00
099	Sub-Total	0.00	0.00
100		0.00	0.00
101	Total Other equity	167,459,875,592.17	156,372,525,419.96
102		0.00	0.00

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NOTE NO. 23 TO THE FS-NCL-BORROWINGS ( Amount in ₹) 31.03.2021 31.03.2020 001 LONG TERM BORROWINGS 0.00 0.00 002 Bonds 0.00 0.00 003 Secured 0.00 0.00 004 7.37 % Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A). 005 7.62 % Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B). 006 8.61% Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement) 007 8.66% Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds -2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3A) 008 8.91% Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds -2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3B) 009 7.37% Secured non-cumulative 0.00 0.00 non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement) 010 7.49% Secured non-cumulative 0.00 0.00 non-convertible redeemable taxable bonds Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement) 7.28 % Tax free secured non-cumulative 0.00 0.00 011 non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October

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2030 (Fifty Sixth Issue - Public Issue - Series





( Amount in ₹)

1401	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ( )
	As at	31.03.2021	31.03.2020
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 ( Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

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( Amount in ₹)

	As at	31.03.2021	31.03.2020
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)	31.00.2021	31.03.2020
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)	0.00	0.00
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/-each redeemable at par in full on 22nd September 2024 (53rd Issue - private placement).	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

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( Amount in ₹)

NOI	ENO. 23 TO THE FS-NCL-	BURRUWINGS		( Amount in 🔻 )
	As at		31.03.2021	31.03.2020
	par in full on 4th March (Fifty First Issue A - Priv			
028	8.41% Tax free sec non-convertible redeem 2013 of ₹ 1000/- each full on 16th December 2 Fiftieth Issue - Public Iss	nable bonds - redeemable at par in 2023 (	0.00	0.00
029	8.66% Tax free sec non-convertible redeem 2013 of ₹ 1000/- each full on 16th December 2 Fiftieth Issue - Public Iss	nable bonds - redeemable at par in 2023 (	0.00	0.00
030	9.25% Secured non-convertible redeer of ₹10,00,000/- each with transferable redeemabl principal parts (STRPP) the end of 11th year an annual installments the of 15th year respective commencing from 4th on 4th May 2027 (Forty issue - private placeme	five equal separately e redeemable at par at d in ereafter upto the end ly May 2023 and ending / fourth	0.00	0.00
031	8.48% Secured non-nonvertible redeer of ₹ 10,00,000/- each red on 1st May 2023 (Seventeenth issue - pr	eemable at par in full	0.00	0.00
032	8.80% Secured non-convertible redeer of ₹10,00,000/- each rede on 4th April 2023 (Forty ninth issue -private place	eemable at par in full	0.00	0.00
033	8.49% Secured non-convertible redeem paid-up bonus debenturedeemable at par in thannual installments of Rs. 5.00 at the end of 8 year, 9th year and 10th 2023, 25th March 2025 results are 10 the 10 t	res of Rs. 12.50 each ree Rs. 2.50, Rs. 5.00 and th n year on 25th March and pectively (Fifty Fourth	0.00	0.00
034	8.73% Secured	non-cumulative	0.00	0.00
			$\cap$	

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in 🔻 )
	As at	31.03.2021	31.03.2020
	non-convertible redeemable taxable bonds of		
	₹ 10,00,000/- each redeemable at par in full on 07th March 2023 ( Forty		
	eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively		
	commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III		
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII		
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)		
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (CTRRR) at the and of 5th year.	0.00	0.00
	(STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)		
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in	0.00	0.00
	full on 24th February 2021	SA	
1 1	-d- 00 04 0004 00-40-40	/ 1 9	

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2021	31.03.2020
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	₹ 10,00,000/- each redeemable at par in full		

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( Amount in ₹)

NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2021	31.03.2020
	on 12th January 2019 (Nineteenth issue - private placement)II		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)III	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)VII	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)VII	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)I	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)III	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

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( Amount in ₹)

As a	at	31.03.2021	31.03.2020
sep rede rede yea upto resp Dec Dec	₹ 15,00,000/- each with fifteen equal parately transferable eemable principal parts (STRPP) eemable at par at the end of 6th ar and in annual installments thereafter to the end of 20th year pectively commencing from 23rd cember 2017 and ending on 23rd cember 2031 (Forty first issue - private cement)III		
non of sep- rede rede yea upto resp 201	58% Secured non-cumulative n-convertible redeemable taxable bonds ₹ 15,00,000/- each with fifteen equal parately transferable eemable principal parts (STRPP) eemable at par at the end of 6th ar and in annual installments thereafter to the end of 20th year pectively commencing from 29th July 17 and ending on 29th July 181(Fourtieth issue-private placement)	0.00	0.00
non of sep- rede rede yea upto resp 201	896% Secured non-cumulative n-convertible redeemable taxable bonds ₹ 15,00,000/- each with fifteen equal parately transferable eemable principal parts (STRPP) eemable at par at the end of 6th ar and in annual installments thereafter to the end of 20th year pectively commencing from 9th June 17 and ending on 9th June 2031(Thirty ninth issue-private cement)III	0.00	0.00
of sep rede rede yea upto resp 201 203	7% Secured non-cumulative n-convertible redeemable taxable bonds  15,00,000/- each with fifteen equal parately transferable eemable principal parts (STRPP) eemable at par at the end of 6th ar and in annual installments thereafter to the end of 20th year pectively commencing from 22nd March 17 and ending on 22nd March 181(Thirty eighth issue-private cement)	0.00	0.00
059 8.80 non of sep	086% Secured non-cumulative n-convertible redeemable taxable bonds ₹ 15,00,000/- each with fifteen equal parately transferable eemable principal parts (STRPP) eemable at par at the end of 6th	0.00	0.00

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( Amount in ₹)

NOTE NO. 23 TO THE FS-NCL-BOR	ROWINGS		( Amount in ₹ )
As at		31.03.2021	31.03.2020
year and in annual install upto the end of 20th year respectively commencing December 2016 and ending December 2030 (Thirty sixty placement)	g from 15th on 15th		
060 8.785% Secured non-convertible redeemable of ₹ 15,00,000/- each wi separately transferable redeemable principal redeemable at par at the er year and in annual install upto the end of 20th year respectively commencing September 2016 and ending September 2030 (Thirty fift placement)III	parts (STRPP) and of 6th ments thereafter g from 15th g on 15th	0.00	0.00
061 8.71% Secured non-convertible redeemable of ₹ 15,00,000/- each with separately transferable redeemable principal redeemable at par at the er year and in annual install upto the end of 20th year respectively commencing 2016 and ending on 10th Ju (Thirty fourth issue - private	parts (STRPP) ad of 6th ments thereafter from 10th June ne 2030	0.00	0.00
062 8.8493% Secured non-convertible redeemable of ₹ 15,00,000/- each wis separately transferable redeemable principal redeemable at par at the enyear and in annual install upto the end of 20th year respectively commencing to 2016 and ending on 25th Mar 2030 (Thirty second is placement)III	parts (STRPP) and of 6th ments thereafter from 25th March arch	0.00	0.00
9.37% Secured non-convertible redeemable of ₹ 70,00,000/- each with for transferable redeemable principal parts (STRPP) resemi-annually commencing 4th June 2012 and ending 2018 (Twenty fifth issue -	urteen separately deemable at par from	0.00	0.00

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( Amount in ₹ )

NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		(Amount in ₹)
	As at	31.03.2021	31.03.2020
	private placement)III		
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)V	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00
		A -	

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( Amount in ₹ )

	As at	31.03.2021	31.03.2020
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
073		0.00	0.00
073		0.00	0.00
075		0.00	0.00
075		0.00	0.00
070	Sub Total	0.00	0.00
078	Unsecured	0.00	0.00
079	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth Issue - Private Placement)	0.00	0.00
080	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First Issue - Private Placement)	0.00	0.00
081	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second Issue - Private Placement)	0.00	0.00

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( Amount in ₹)

1401	E NO. 23 TO THE TO-NOE-BORNOWINGO		( Amount m v )
	As at	31.03.2021	31.03.2020
082	6.43% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 27 January 2031 (Seventy Third Issue - Private Placement)	0.00	0.00
083		0.00	0.00
084		0.00	0.00
085		0.00	0.00
086	Sub-total	0.00	0.00
087	Total	0.00	0.00
880	Foreign Currency Notes-Unsecured	0.00	0.00
089	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
090	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
091	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
092	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
093	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
094	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
095	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
096	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00
097	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
098		0.00	0.00
099		0.00	0.00
100		0.00	0.00
101		0.00	0.00
102	Sub Total	0.00	0.00
103	Long term maturities of Finance Lease Obligations (Secured) IX	0.00	0.00
104	Long term maturities of Finance Lease Obligations (Unsecured) X	0.00	0.00
105	Term Loans	0.00	0.00
106	From Banks	0.00	0.00
107	Secured	0.00	0.00
108	Rupee Loans	0.00	0.00
109	Unsecured	0.00	0.00
110	Foreign Currency Loans	0.00	0.00
111	Rupee Loans	0.00	0.00
112	From Others	0.00	0.00
113	Secured	0.00	0.00
114	Rupee Loans	0.00	0.00
		( )	

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NOTE NO. 23 TO THE FS-NCL-BORROWINGS ( Amount in ₹) 31.03.2021 31.03.2020 0.00 115 Foreign Currency loans (guaranteed by GOI) 0.00 0.00 0.00 116 Unsecured Foreign Currency loans (guaranteed by GOI) 0.00 0.00 117 Other Foreign currency loans 0.00 0.00 118 119 Rupee Loans 0.00 0.00 120 **Deposits** 0.00 0.00 121 Unsecured 0.00 0.00 122 **Fixed Deposits** 0.00 0.00 123 **Others** 0.00 0.00 0.00 0.00 124 **Unsecured** 125 **Bonds Application Money Pending Allotment** 0.00 0.00 126 **Sub-total** 0.00 0.00 127 Total 0.00 0.00 128 0.00 0.00 129 Less:- Interst accrued but not due on borrowings 0.00 0.00 Less:- Current maturities of long term borrowings 0.00 130 0.00 131 **Bonds-Secured** 0.00 0.00 132 **Fixed Rate Notes** 0.00 0.00 133 Foreign currency loans from Banks- unsecured 0.00 0.00 134 Rupee loans from banks- Secured 0.00 0.00 135 Rupee loans from banks- unsecured 0.00 0.00 136 Rupee Term Ioan from Others - Secured 0.00 0.00 137 Foreign currency loans from others- unsecured 0.00 0.00 (Guaranteed by GOI) 138 Other foreign currency loans from others-0.00 0.00 unsecured 139 Rupee loans from others- unsecured 0.00 0.00 140 Finance Lease obligations - secured 0.00 0.00

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200

Total

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Finance Lease obligations - unsecured



0.00

0.00

0.00

0.00



NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES ( Amount in ₹) 31.03.2021 31.03.2020 001 TRADE PAYABLES(NON CURRENT) 0.00 0.00 002 For Goods and Services 0.00 0.00 003 - Micro & Small Enterprises 16,336,269.21 15,622,396.62 004 - Others 6,373,476.89 5,712,598.82 005 0.00 0.00 22,709,746.10 21,334,995.44 006 Total

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#### NOTE NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES ( Amount in ₹) 31.03.2021 31.03.2020 **OTHER FINANCIAL LIABILITIES** 001 0.00 0.00 (NON-CURRENT) 002 Payable for Capital Expenditure 0.00 0.00 003 - Micro & Small Enterprises 100,024.63 36,951.05 681,641,329.62 34,267,850.68 004 - Others Others 005 0.00 0.00 006 Deposits from contractors and others 0.00 75,100.00 007 0.00 0.00 800 0.00 0.00 009 681,741,354.25 34,379,901.73 Total

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( Amount in ₹)

	As at	31.03.2021	31.03.2020
001	LONG TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
013		0.00	0.00
014	TOTAL	0.00	0.00

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NOT	NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET)				
	As at	Opening Balance on 01.04.2020	Addition	Closing Balance on 31.03.2021	
001	DEFERRED TAX LIABILITIES (NET)				
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00	
003	Less: Deferred tax assets				
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00	
005	Unabsorbed Depreciation	0.00	0.00	0.00	
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00	
007		0.00	0.00	0.00	
800		0.00	0.00	0.00	
009		0.00	0.00	0.00	
010		0.00	0.00	0.00	
011	MAT credit entitlement	0.00	0.00	0.00	
012		0.00	0.00	0.00	
013	Total	0.00	0.00	0.00	
014		0.00	0.00	0.00	
015	Total	0.00	0.00	0.00	
016	Breakup of deferred tax assets	0.00	0.00	0.00	
017	Provision	0.00	0.00	0.00	
018	Statutory dues	0.00	0.00	0.00	
019	Leave encashment	0.00	0.00	0.00	
020	Others	0.00	0.00	0.00	
021		0.00	0.00	0.00	
022		0.00	0.00	0.00	

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#### NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES

( Amount in ₹)

	As at	31.03.2021	31.03.2020
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
005	TOTAL	0.00	0.00

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( Amount in ₹ )

1401	L NO. 29 TO THE TO-CE-BORROWINGS		( Amount m \ )
	As at	31.03.2021	31.03.2020
001	Short Term Borrowings	0.00	0.00
002	Loans repayable on demand	0.00	0.00
003	From Banks	0.00	0.00
004	Secured	0.00	0.00
005	Cash Credit	0.00	0.00
006	Unsecured	0.00	0.00
007	Cash Credit	0.00	0.00
800	Other loans-unsecured	0.00	0.00
009	Commecial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	Sub-Total	0.00	0.00
012	TOTAL	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

( Amount in ₹)

	As at	31.03.2021	31.03.2020
001	TRADE PAYABLES	0.00	0.00
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	227,641,821.80	347,533,123.95
004	- Others	1,688,677,134.68	1,929,276,543.35
005		0.00	0.00
006	Total	1,916,318,956.48	2,276,809,667.30
007		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

( Amount in ₹ )

NOT	E <u>NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILI</u>	TIES	(Amount in ₹)
	As at	31.03.2021	31.03.2020
001	OTHER FINANCIAL LIABILITIES (CURRENT)	0.00	0.00
002	Current maturity of long term borrowings	0.00	0.00
003	Bonds-Secured	0.00	0.00
004	Foreign Currency Fixed Rate Notes	0.00	0.00
005	From Banks	0.00	0.00
006	Secured	0.00	0.00
007	Rupee Term Loan	0.00	0.00
800	Unsecured	0.00	0.00
009	Foreign currency loans	0.00	0.00
010	Rupee term loans	0.00	0.00
011	From Others	0.00	0.00
012	Secured	0.00	0.00
013	Rupee Term Loan	0.00	0.00
014	Unsecured	0.00	0.00
015	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
016	Other foreign currency loans	0.00	0.00
017	Rupee term loans	0.00	0.00
018	Fixed deposits	0.00	0.00
019	Sub Total	0.00	0.00
020	Current maturity of finance lease obligations (secured)	0.00	0.00
021	Current maturity of finance lease obligations (unsecured)	0.00	0.00
022	Interest accrued but not due on borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	Payable for Capital Expenditure	0.00	0.00
033	- Micro & Small Enterprises	114,779,286.53	118,466,640.74
034	- Others	1,769,755,357.39	1,851,731,237.95
035	Others Payables	0.00	0.00
036	Deposits from contractors and others	53,078,458.78	55,965,895.78
037	Gratuity Obligations	0.00	0.00
038	Payable to employees	10,896,978.39	21,909,288.36
039	Payable to holding company	0.00	0.00
040	Retention on A/c BG encashment (Solar)	0.00	0.00
041	Payable to Solar Payment Security Account	0.00	0.00
042	Others **	140,861,301.14	125,967,538.41
		( \	

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NOT	E <u>NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIE</u>	(Amount in ₹)	
	As at	31.03.2021	31.03.2020
043	Unspent CSR balance on ongoing Approved CSR projects	0.00	0.00
044	Total	2,089,371,382.23	2,174,040,601.24
045	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
046	** Include Payable to Hospital and other payable.	0.00	0.00

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NOT	NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES (Amount in ₹			
	As at	31.03.2021	31.03.2020	
001	OTHER CURRENT LIABILITIES	0.00	0.00	
002	Advances from customers and others	35,638,788.25	10,105,072.69	
003	Deferred discount on forward exchange contact	0.00	0.00	
004	Tax deducted at source and other statutory dues	59,989,614.61	87,940,416.32	
005	Others	0.00	0.00	
006	Total	95,628,402.86	98,045,489.01	

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NOT	E NO. 33 TO THE FS-CL-PROVISIONS		( Amount in ₹ )
	As at	31.03.2021	31.03.2020
001	SHORT TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
028	Provisions for Obligations Incidental to Land Acquisition	0.00	0.00
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	Closing Balance	0.00	0.00
035	Provision for Tariff Adjustment	0.00	0.00
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	Closing Balance	0.00	0.00
042	Provision for shortage in Fixed Assets Pending Investigation & Others	0.00	0.00
043	Opening balance	633,857.99	196,021.10
044	Additions during the year	0.00	437,836.89
045	Amounts adjusted during the year	54,258.29	0.00
046	Amounts reversed during the year	579,599.70	0.00
047	Closing Balance	0.00	633,857.99
048	Provision for Arbitration	0.00	0.00
049	Opening balance	7,846,960.00	7,428,608.00
050	Additions during the year	418,352.00	418,352.00
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	Closing Balance	8,265,312.00	7,846,960.00
054	Others	0.00	0.00
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	Closing Balance	0.00	0.00
102		0.00	0.00
103	Total	8,265,312.00	8,480,817.99

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NOTE NO. 34 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

( Amount in ₹)

	As at	31.03.2021	31.03.2020
001	Current liabilities - current tax liabilities (net)	0.00	0.00
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
006	Closing Balance	0.00	0.00

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NOTE NO. 35 TO THE FS--DEFERRED REVENUE ( Amount in ₹) 31.03.2021 31.03.2020 0.00 001 **Deferred Revenue** 0.00 002 0.00 On account of advance against depreciation 0.00 On account of income from foreign currency 003 1,550,313,000.00 1,990,729,000.00 fluctuation 004 0.00 Government grants 0.00 005 0.00 0.00 006 1,550,313,000.00 1,990,729,000.00 **TOTAL** 

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NOT	NOTE NO. 36 TO THE FSREGULATORY DEFERRAL ACCOUNT CREDIT BALANCES (Amount in ₹)				
	As at	31.03.2021	31.03.2020		
001	Regulatory deferral account credit balances	0.00	0.00		
002	Exchange Differences	0.00	0.00		
003		0.00	0.00		
004	Total	0.00	0.00		

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NOT	E NO. 37 TO THE FSREVENUE FROM OPERATIONS		( Amount in ₹ )
	For the Year ended	31.03.2021	31.03.2020
001	REVENUE FROM OPERATIONS	0.00	0.00
002	Sales	0.00	0.00
003	Energy Sales (including Electricity Duty)	52,226,950,763.00	52,789,447,080.00
004	Less: Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add: Exchange fluctuation receivable from customers	0.00	-78,857,000.00
007	Sale of energy through trading	0.00	0.00
800	Commission (NVVN)	0.00	0.00
009	Sub total	52,226,950,763.00	52,710,590,080.00
010	Less: Rebate to customers	792,896,443.92	240,351,050.12
011	Energy Sales (Total)	51,434,054,319.08	52,470,239,029.88
012	Consultancy, project management and supervision fees	0.00	41,420.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	Sub-total	0.00	0.00
018	Total - Sales	51,434,054,319.08	52,470,280,449.88
019	Sale of fly ash/ash products	15,712,224.90	9,410,400.00
020	Less: Transferred to fly ash utilisation reserve fund	-15,712,224.90	-9,410,400.00
021	Sub-total	0.00	0.00
022	Other Operating Income	0.00	0.00
023	Interest from customers	0.00	44,084,590.00
024	Energy Internally Consumed *	32,244,116.00	30,711,686.00
025	Interest income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	0.00	0.00
029	Income from E-Mobility Business & others	0.00	0.00
030		0.00	0.00
031	Total	51,466,298,435.08	52,545,076,725.88
040	<ul> <li>Valued at variable cost of generation and corresponding amount included in power charges ( Note No. 42)</li> </ul>	0.00	0.00
041	Excise duty on sale of flyash,cenospere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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	E NO. 38 TO THE FSOTHER INCOME		/ Amount in Fl
NOI	For the Year ended	31.03.2021	( Amount in ₹ ) 31.03.2020
001	OTHER INCOME	0.00	0.00
002	Interest from	0.00	0.00
004	Financial assets at amortised cost	0.00	0.00
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007		0.00	0.00
800	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortiation of premium	0.00	0.00
010	Sub Total	0.00	0.00
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	15,321,469.09	17,127,436.11
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	1,013,678.30	2,488,597.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
)20	Sub Total	0.00	0.00
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
)22	Less: transferred to flyash utilisation reserve fund	0.00	0.00
)23	Sub Total	0.00	0.00
)24	Deposits with banks- DDUGJY funds	0.00	0.00
)25	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
)27	Sub-total	0.00	0.00
030	Others	0.00	0.00
031	Clibio	0.00	0.00
032	Dividend from	0.00	0.00
033	Longterm investments in	0.00	0.00
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	Current Investments in	0.00	0.00
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
)39	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
)41	Lease Rent # Ash Brick Plant	0.00	0.00
)42	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	0.00	0.00
044	Profit on disposal of PPE	20,849.70	90,379.35
045	Profit on redemption of GOI securities	0.00	0.00
J-1J	Trail of recomplian of OOI secundes	0.00	0.00

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	END 30 TO THE ES OTHER INCOME		(Amount in ₹)
NOT	E NO. 38 TO THE FSOTHER INCOME	24.02.2024	( Amount in ₹)
0.40	For the Year ended	31.03.2021	31.03.2020
046	Net gain on sale of investments	0.00	0.00
047	Surcharge received from customers	2,124,147,852.00	2,550,077,957.00
048	Hire charges for equipment	151,491.00	67,561.00
049	Gain on option contract / Discount on F.ExchContract	0.00	0.00
050	Provision written back-others	4,648,573.24	6,148,851.93
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less : Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less: Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	399,678,154.90	459,475,589.49
057	Total	2,544,982,068.23	3,035,476,371.88
058	Less:Transferred to Development of Coal Mines- Note 43A	0.00	0.00
059	Less:Transferred to Expenditure during Construction period (net)- Note 43	73,452.78	0.00
061	Less: Others	0.00	0.00
062	Total	2,544,908,615.45	3,035,476,371.88
063		0.00	0.00
064	Details of Miscellaneous Income	0.00	0.00
065	Vehicle Hire Charges.	100,000.00	110,000.00
066	Sale of by products & residuals	0.00	0.00
067	Township recoveries(exl. Hospital Recoveries).	26,531,613.68	22,749,254.28
068	Depreciation written back	0.00	0.00
069	Sale of Scrap.	146,790,506.41	39,568,148.02
070	Receipt under loss of profit policy.	0.00	0.00
071	Receipts under MBD/Fire Policy.	105,876,803.99	315,144,938.00
072	Management development programme.	0.00	0.00
073	Management Fee - Misc (NVVN)	0.00	0.00
074	Others	120,379,230.82	81,903,249.19
075		0.00	0.00
076	Total (Miscellaneous Income)	399,678,154.90	459,475,589.49
077		0.00	0.00
078	Details of Provision written back others	0.00	0.00
079	Doubtful debts	0.00	0.00
080	Doubtful Loans, Advances and Claims	0.00	42,405.00
081	Doubtful Construction Advances	0.00	0.00
082	Shortage in Construction Stores	3,069,811.99	3,559,179.34
083	Shortage in Stores	999,161.55	2,545,110.36
084	Obsolescence in Stores	0.00	2,157.23
085	Unserviceable capital works	0.00	0.00
086	Other Obligation including Arbitration	0.00	0.00
087	Shortage in Fixed Assets	579,599.70	0.00
50,		Q. 5,500.7 5	5.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 38 TO THE FS--OTHER INCOME

( Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
880	Diminution in value of Investment	0.00	0.00

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( Amount in ₹)

0.00

#### **RIHAND SUPER THERMAL POWER STATION**

NOTE NO. 38A TO THE FS--FUEL COST

010

For the Year ended 31.03.2021 31.03.2020 001 FUEL COST 0.00 0.00

002	Coal	0.00	0.00
003	Captive	0.00	0.00
004	Other than captive	30,976,987,392.52	30,178,971,766.14
005	Gas	0.00	0.00
006	Naptha	0.00	0.00
007	Oil	247,723,305.71	239,573,779.54
800	Total	31,224,710,698.23	30,418,545,545.68
009		0.00	0.00

0.00

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#### NOTE NO. 39 TO THE FS--EMPLOYEE BENEFITS EXPENSE ( Amount in ₹ ) For the Year ended 31.03.2021 31.03.2020 **EMPLOYEE BENEFITS EXPENSE** 001 0.00 0.00 002 Salaries and wages 1,515,897,759.31 1,650,643,540.59 003 Contribution to provident and other funds 192,912,222.56 173,843,153.43 004 Unwinding of deferred payroll expense 10,267,426.36 11,718,520.61 005 170,031,632.85 177,064,793.44 Staff welfare expenses 006 Less: Expenses transferred to Consultancy group 0.00 0.00 007 0.00 0.00 800 **Sub Total** 1,889,109,041.08 2,013,270,008.07 121,440,512.65 152,386,279.55 009 Less: Employee benefits expense allocated to fuel inventory Less: Transferred/Allocated to development of 010 0.00 0.00 coal mines 011 Less: Others 0.00 0.00 0.00 0.00 012 Less: Transferred to fly ash utilisation reserve fund 013 Less: Transferred to CSR Expenses 0.00 0.00 014 Reimbursements for employees on secondment 2,735,946.17 1.632.87 015 Less: Transferred to expenditure during 19,394,829.87 6,752,468.23 construction period (net)- Note 43 016 **TOTAL** 1,745,537,752.39 1,854,129,627.42 Managerial Remuneration paid/ payable to 017 0.00 0.00 **Directors included above (except for Directors** fee which is included in Note 42) 018 Salaries and wages 0.00 0.00 Contribution to provident and other funds 0.00 0.00 019 0.00 0.00 020 Staff welfare expenses 021 Directors fee 0.00 0.00 022 0.00 0.00

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0.00

0.00



NOT	E NO. 40 TO THE FSFINANCE COSTS		( Amount in ₹ )
	For the Year ended	31.03.2021	31.03.2020
001	FINANCE COSTS	0.00	0.00
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	585,552,890.58	516,674,205.82
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	19,316,822.83	34,538,576.20
006	Rupee term loans	690,539,220.00	940,580,407.00
007	Public deposits	0.00	0.00
800	Foreign currency bonds/notes	642,399,406.03	625,074,179.63
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	13,871,577.85	6,650,468.54
011	Commercial Papers	0.00	0.00
012	Sub Total	1,951,679,917.29	2,123,517,837.19
013	Interest on non financial items	0.00	0.00
014	Other Borrowing Costs	0.00	0.00
015	Bonds servicing & public deposit exp.	717,948.54	768,686.21
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	0.00	0.00
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others _	0.00	0.00
026	Sub Total (Other Borrowing cost)	717,948.54	768,686.21
027		0.00	0.00
028	Exchange differences regarded as an adjustment to borrowing costs	-16,523.48	13,092,857.00
029	Sub Total	1,952,381,342.35	2,137,379,380.40
030	Less: Transferred to Expenditure during construction period (net) - Note 43	22,905,000.49	6,944,586.19
031	Less: Transferred to development of coal mines- Note 43A	0.00	0.00
032		0.00	0.00
033	Total	1,929,476,341.86	2,130,434,794.21

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NOT	E NO. 41 TO THE FSDEPRECIATION AND AMORTIZA	ATION EXPENSES	( Amount in ₹ )
	For the Year ended	31.03.2021	31.03.2020
001	Depreciation and amortization expenses	0.00	0.00
002	On property, plant and equipment- Note 2	4,601,404,034.44	4,377,618,570.90
003	On intangible assets- Note 4	4,317.78	115,063.13
004	Sub-total	4,601,408,352.22	4,377,733,634.03
005	Less:	0.00	0.00
006	Allocated to fuel inventory	361,624,623.95	345,650,636.39
007	Transferred to Expenditure during Construction Period (net)- Note 43	0.00	0.00
800		0.00	0.00
009	Transferred/Allocated to development of coal mines	0.00	0.00
010	Adjustment with deferred revenue from deferred foreign currency fluctuation	168,797,000.00	117,252,000.00
011		0.00	0.00
012		4,070,986,728.27	3,914,830,997.64

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	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2021	31.03.2020
001	OTHER EXPENSES	0.00	0.00
002	Power charges	32,244,116.00	30,711,686.00
003	Less: Recovered from contractors & employees	10,218,976.19	10,254,267.44
004	Sub-Total(Power Charges)	22,025,139.81	20,457,418.56
005	Water charges	139,871,225.00	139,871,221.00
006	Stores consumed	30,362,577.69	25,535,090.39
007	Rent	0.00	0.00
800	Less:Recoveries	0.00	0.00
009	Sub-Total (Rent)	0.00	0.00
010	Cost of captive coal produced	0.00	0.00
011	Repairs & maintenance	0.00	0.00
012	Buildings	157,598,147.58	155,238,832.21
013	Plant & machinery	0.00	0.00
014	Power stations	2,012,457,618.12	1,971,478,736.27
015	Construction equipment	0.00	0.00
016	Others	71,233,169.46	83,615,119.59
017	Sub-total (Repairs & maintenance)	2,241,288,935.16	2,210,332,688.07
019	Load Dispatch Center Charges	16,378,065.00	31,162,794.00
021	Insurance	135,670,380.27	89,337,957.77
022	Interest to beneficiaries	0.00	0.00
023	Rates and taxes	14,719,674.88	15,456,955.21
023	Water cess & environment protection cess	0.00	0.00
025	Training & recruitment expenses	2,517,189.00	3,118,705.45
026	Less: Receipts	0.00	0.00
020	Sub-total (Training and recruitment expenses)	2,517,189.00	3,118,705.45
027	Communication expenses	20,286,959.05	22,862,791.41
029	Inland Travel	60,029,239.63	82,463,633.67
030	Foreign Travel	0.00	
030	-	0.00	120,940.46 0.00
031	Tender expenses  Less: Receipt from sale of tenders	0.00	0.00
032		0.00	
034	Sub-total (Tender expenses)  Payment to auditors	0.00	<b>0.00</b> 0.00
	Audit fee	0.00	0.00
035	Tax audit fee	0.00	0.00
036 037	Other services	0.00	0.00
038	Reimbursement of expenses		
	·	0.00	0.00
039	Sub-total (Payment to Auditors)	0.00	0.00
040	Advertisement and publicity	657,415.36	1,212,507.00
041	Electricity duty	0.00	0.00
042	Security expenses	460,687,189.93	373,349,148.40
043	Entertainment expenses	26,655,551.12	28,763,376.25
044	Expenses for guest house	17,271,947.40	17,150,884.00
045	Less:Recoveries	0.00	0.00
046	Sub-Total (Guest house expenses)	17,271,947.40	17,150,884.00
047	Education expenses	79,480,752.00	55,250,389.00
049	Donations	0.00	0.00

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	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2021	31.03.2020
050	Ash utilisation & marketing expenses	432,245,428.81	125,414,779.59
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	3,302,664.23	3,982,140.37
054	Legal expenses	15,480,086.00	15,785,425.50
055	EDP hire and other charges	1,336,546.59	2,894,018.79
056	Printing and stationery	1,376,617.64	3,525,595.39
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	20,600,619.14	31,158,224.74
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062		0.00	0.00
063	Cost of Hedging	166,468.00	0.00
064	Derivatives MTM loss/gain (Net)	0.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	-11,861,227.40	42,094,396.89
066	Transport Vehicle running expenses	936,937.36	912,881.50
067	Horticulture Expenses	59,411,651.45	59,606,958.76
068	Hire charges- helicopter/aircraft.	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	21,346,532.03	24,023,844.61
074	Loss on disposal/write-off of PPE	231,316,192.66	16,538,459.84
075	Sub-Total	4,043,560,757.81	3,442,383,226.62
076	Less: Other expenses allocated to fuel inventory	567,027,646.89	507,661,972.36
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	119,725,415.98	125,414,779.59
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	0.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	71,755,551.00	47,896,790.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 43	5,629,081.66	805,829.61
083	Net (Generation, Administration and Other expenses)	3,279,423,062.28	2,760,603,855.06
084	Corporate Social Responsibility Expenses	117,469,384.87	102,505,554.21
085	Less: Grants-in-aid	0.00	0.00
086	Sub-total (Corporate Social Responsibility Expenses)	117,469,384.87	102,505,554.21
087	Provisions	0.00	0.00
880	Doubtful Debts	0.00	0.00
089	Doubtful loans, advances and claims	0.00	0.00
090	Doubtful Construction Advances	0.00	0.00
091	Shortage in stores	156,818.20	467,794.99
092	Obsolete/Dimunition in the value of surplus stores	0.00	467,405.55
093	Shortage in construction stores	6,233,763.36	4,086,971.23
094 Lock	Dimunition in value of long term investments ed: 26.04.2021 - 20:19:32	0.00	0.00
_		Addl. General Manager (Commercial)	593

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NOT	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2021	31.03.2020
095	Shortage in Fixed assets	0.00	437,836.89
096	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
097	Unserviceable capital works	0.00	0.00
098	Tariff Adjustment	97,702,000.00	31,997,000.00
099	Others:	0.00	0.00
100	(i) Provision for arbitration cases	418,352.00	418,352.00
101	(ii) Other provisions	0.00	0.00
102	Total (Provisions)	104,510,933.56	37,875,360.66
103		0.00	0.00
104	Total	3,501,403,380.71	2,900,984,769.93
105		0.00	0.00
106	Breakup of miscellaneous expenses.	0.00	0.00
109	Hire charges of office equipment	1,215,364.67	71,228.00
111	Operating expenses of construction equipment	0.00	0.00
112	Operating expenses of D.G. sets	0.00	0.00
113	Furnishing expenses	0.00	2,160,679.12
114	Subscription to trade and other associations.	0.00	0.00
116	Visa and entry permit charges	0.00	0.00
117	Tree plantation expNTPC Land	0.00	0.00
118	Research & development expenses.	0.00	0.00
119	Less : Grants received for Research & develoment expenses.	0.00	0.00
120	Sub-total (Research & development expenses)	0.00	0.00
121	Bank charges	141,681.42	244,632.08
122	Business Development Expenditure	0.00	0.00
123	Surcharge (NVVN)	0.00	0.00
124	Power Trading Expenses	6,458,871.00	1,343,810.00
125	Brokerage & commission	1,951,671.00	998,531.00
129	Books and periodicals	88,572.00	214,497.55
130	Claims/advances written off	0.00	0.00
131	Stores written off	0.00	0.00
132	Survey &Investigation expenses written off	0.00	0.00
133	Others	11,490,371.94	18,990,466.86
134	Total	21,346,532.03	24,023,844.61
135		0.00	0.00
136		0.00	0.00
137		0.00	0.00

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NOT	E NO. 43 TO THE FSEXPENDITURE DURING CONST	RUCTION PERIOD (NET)	( Amount in ₹ )
	For the Year ended	31.03.2021	31.03.2020
001	EXPENDITURE DURING CONSTRUCTION PERIOD (NET)	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	16,690,366.44	5,979,041.61
004	Contribution to provident and other funds	1,990,589.37	534,992.53
005	Unwinding of deffered payroll expenses	-9,214.56	-3,973.41
006	Staff welfare expenses	723,088.62	242,407.50
007	Total (A)	19,394,829.87	6,752,468.23
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	991,703.48	0.00
011	Foreign currency term loans	202,998.16	0.00
012	Rupee term loans	12,796,466.00	3,403,287.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	8,870,269.79	456,585.19
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	2,651,489.00
026	Others	476,690.72	0.00
027	Exchange differences regarded as adjustment to interest cost	-433,127.66	433,225.00
028	Total (B)	22,905,000.49	6,944,586.19
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	2,653,635.00	239,312.00
033	Less: Recovered from contractors & employees	18,237.39	0.00
034	Sub-total(Net power charges)	2,635,397.61	239,312.00
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	161,732.04	0.00
041	, and a	0.00	0.00
042	Insurance	0.00	0.00
· · <u>~</u>		0.00	0.00

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	NOTE NO. 43 TO THE FSEXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)				
	For the Year ended	31.03.2021	31.03.2020		
043	Rates and taxes	0.00	0.00		
044	Communication expenses	202,309.00	46,289.00		
045	Travelling expenses	1,061,207.26	489,962.71		
046	Tender expenses	0.00	0.00		
047	Less: Income from sale of tenders	0.00	0.00		
048	Sub-total (Net tender expenses)	0.00	0.00		
049	Advertisement and publicity	0.00	0.00		
050	Security expenses	0.00	0.00		
051	Entertainment expenses	96,997.19	29,187.94		
052	Guest house expenses	0.00	0.00		
053	Less: Receipt from guest house	0.00	0.00		
054	Sub-total (Net Guest House Expenses)	0.00	0.00		
055	Education expenses	0.00	0.00		
056	Brokerage & Commission	0.00	0.00		
057	Books and periodicals	0.00	0.00		
058	Community development expenses	0.00	0.00		
059	Professional charges and consultancy fee	0.00	0.00		
060	Legal expenses	0.00	0.00		
061	EDP Hire and other charges	0.00	0.00		
062	Printing and stationery	0.00	0.00		
063	Miscellaneous expenses	1,471,438.56	1,077.96		
064	Total (D)	5,629,081.66	805,829.61		
065	Total (A+B+C+D)	47,928,912.02	14,502,884.03		
066	E. Less: Other Income	0.00	0.00		
067	Interest from	0.00	0.00		
068	Indian banks	0.00	0.00		
069	Foreign banks	0.00	0.00		
070	Others	0.00	0.00		
071	Contractors	0.00	0.00		
072	Hire charges	0.00	0.00		
073	Sale of scrap	0.00	0.00		
074	Exchange Differences	0.00	0.00		
075	Miscellaneous income	73,452.78	0.00		
076	TOTAL (E)	73,452.78	0.00		
077	F. Net actuarial gain/loss OCI	201,530.19	0.00		
078		0.00	0.00		
079	GRAND TOTAL (A+B+C+D-E+F)	48,056,989.43	14,502,884.03		
080		0.00	0.00		
081	* Balance carried to Capital Work-in-progress - (Note 3)	48,056,989.43	14,502,884.03		

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BAL	ANCE SHEET			( Amount in ? )
	As at	Note	31.03.2022	31.03.2021
01	ASSETS		0.00	0.00
02			0.00	0.00
103	NON-CURRENT ASSETS		0.00	0.00
104	PROPERTY, PLANT & EQUIPMENT	2	60,524,636,213,05	53,619,450,765,67
105	CAPITAL-WORK-IN-PROGRESS	3	6,758,466,834.90	3,031,095,010.70
00	INTANGIBLE ASSETS	4	15,262.40	15,262.40
107	INTANGIBLE ASSETS UNDER DEVELOPMENT		0.00	0.00
08	FINANCIAL ASSETS		0.00	0.00
109	I) INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES		0.00	0.00
10	II) INVESTMENTS	7	0.00	0.00
111	III) TRADE RECEIVABLES		0.00	0.00
12	IV) LOANS	9	114,504,593,97	105,360,479.31
113	V) OTHER FINANCIAL ASSETS	10	0.00	0.00
15	OTHER NON-CURRENT ASSETS	11	1,021,604,064,56	2,224,648,668.02
110	TOTAL NON-CURRENT ASSETS		58,419,228,968,88	58,980,570,126,10
17			0.00	0.00
18	CURRENT ASSETS		8.00	0.00
119	INVENTORIES	12	6.407.743.216.55	4,599,807,206.27
20	FINANCIAL ASSETS		0.00	0.00
21	I) INVESTMENTS	13	0.00	0.00
22	II) TRADE RECEIVABLES	-14	1,733,597.09	15,464,355.60
23	III) CASH AND CASH EQUIVALENTS	15	0.00	390,123.40
24	IV) BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS	16	0.00	0.00
25	V) LOANS	17	75.812.587.65	68,814,626.95
216	VI) OTHER FINANCIAL ASSETS	18	149.290,961.93	158,476,059.43
27	CURRENT TAX ASSETS (NET)		0.00	0.00
28			0.00	0.00
29	OTHER CURRENT ASSETS	19	455,009,517,62	469,505,591,13
30			0.00	0.00
131	TOTAL CURRENT ASSETS		7,089,589,680.84	5,322,257,962.87
132	REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES	20	1,151,297,074.19	671,086,456,17
34	TOTAL ASSETS		66,660,115,723.91	64,973,914,545.14
35	EQUITY AND LIABILITIES		8.00	0.00
36	EQUITY		0.90	0.00
137	EQUITY SHARE CAPITAL	21	0.00	0.00
38	OTHER EQUITY	22	177,939,235,212.48	166,407,994,973.17
41	TOTAL EQUITY	-	177,939,235,212.48	166,407,994,973.17
42	WESTERN.		0.00	0.00
143	LIABILITIES		0.00	0.00
44	NON-CURRENT LIABILITIES		0.00	0.00
45	FINANCIAL LIABILITIES		0.00	0.00
46	i) BORROWINGS	23	0.00	0.00
47	III LEASE LIABILITIES	23A	0.00	0.00
48	III) TRADE PAYABLES	635	0.00	0.00

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वापर महाप्रधानवक (दाणिविद्यक) Add. General Manager (Commercial) एन में से में क्रिकेट आपानक



( Amount in ₹)

#### RIHAND SUPER THERMAL POWER STATION

BALANCE SHEET

BAL	ANCE SHEET			( Amount in < )
	As at	Note	31.03.2022	31.03.2021
049	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	24	7,830,370.14	16,336,269.21
050	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	24	11,108,650.81	8,373,476.89
051	(V) OTHER FINANCIAL LIABILITIES	25	213,937,434.72	681,741,354.25
052	PROVISIONS	26	0.00	0.00
053	DEPERRED TAX LIABILITIES (NET)	27	0.00	0.00
054	OTHER NON-CURRENT LIABILITIES	28	0.00	0.00
055			0.00	0.00
058	TOTAL NON-CURRENT LIABILITIES		232,876,455.67	794,451,106.35
057			0.00	0.00
058	CURRENT LIABILITIES		0.00	0.00
050	FINANCIAL LIABILITIES		0.00	0.00
060	I) BORROWINGS	29	0.00	0.00
061	II) LEASE LIABILITIES	29A	0.00	0.00
062	II) Trade Payables		0.00	0.00
063	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	30	220,046,789.16	227,641,821.80
064	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	30	3,104,879,539,52	1,688,677,134.68
065	III) OTHER FINANCIAL LIABILITIES	31	3,800,418,199.66	2,089,371,382.23
006	OTHER CURRENT LIABILITIES	32	150,807,894.34	95,628,402.86
087	PROVISIONS	33	8,683,664.00	8,265,312.00
880	CURRENT TAX LIABILITIES (NET)	34	0.00	0.00
069	The state of the s		0.00	0.00
070	TOTAL CURRENT LIABILITIES		7,284,835,996.68	4,109,584,053.57
071			0.00	0.00
072	DEFERRED REVENUE	35	1,521,099,000.00	1,550,313,000.00
073	REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES	36	0.00	0.00
074	INTER UNIT ACCOUNTS		-120,317,930,940,92	-107,798,428,581,95
075			0.00	0.00
076	TOTAL EQUITY AND LIABILITIES		66,660,115,723.91	64,973,914,545,14
077	Significant Accounting Policies as per Note 1		9.00	0.00
078			0.00	0.00
079	The accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.90
080			0.00	0.00

( Auditor Initial & Stamp )

NARENDER CHATRATH (Head of Finance )

( Head of Unit )

देवज्ञत पॉल/DEBABRATA PAUL मुख्य महाप्रवेदक/Chief General Manager

हमटीचीसी तिमिटेत/NTPC Ltd. रिडंड सुपर धर्मल पावर प्रोजेक्ट/RhSTPP रिडंडनमर सोनम्प्र/स्थानतंत्रक Samblada 231223

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STA	TEMENT OF PROFIT AND LOSS			( Amount in ? )
	For the Year ended	Note	31.03.2022	31.03.2021
001	Revenue		0.00	6.00
003	Revenue from operations	37	52,147,559,605.11	50,204,678,917.91
003	Other income	38	1,201,322,056.93	2,757,468,614.45
005	Total Income		53,345,881,662,04	52,962,167,532,36
700	Expenses		0.00	0.00
000	Fuel including cost of captive coal	36A	30,643,588,568 19	31,227,551,799,06
009	Employee benefits expense	39	1,807,965,286.44	1,745,537,752.39
010	Electricity purchased for trading		0.00	0.00
011	Prance costs	40	1,466,105,749.86	1,929,476,341.86
012	Depreciation and emortization expenses	41	4,182,729,674.91	4,070,986,726.27
013			0.00	0.00
014	Other expenses	42	3,380,456,005.46	3,501,403,380.71
015	CC expenses charge to revenue		807,260,921,12	723,835,736.02
016	Less: Unit expenses transferred to CC		0.00	0.00
017	Total expenses		42,288,126,406.00	43,198,791,737.31
020	Profit before exceptional Items & tex	4	11,040,755,256.04	9,763,375,795,05
021	Exceptional tems		0.00	0.00
024	Profit before tax		11,990,755,256.04	9,763,375,796.06
027	Tax expense:		0.00	0.00
028	Current tox		0.00	0.00
031	Deferred tax		9.09	0.00
034			0.00	0.00
036	Total Tex expense		0.06	0.00
036	Profit for the period before regulatory defarral ecount balances	444	11,060,765,256.04	9,763,375,795.05
037	Movement in regulatory deferral account balances		0.00	0.00
038	Regulatory deferred account - deferred		0.00	0.00
039	Others		480,210,618.02	304,375,947.98
040	Tax impect on Regulatory deferral account balances		0.00	0,00
041	Movement in Regulatory deferrall account balances (Not of Tax)		480,219,618.92	304,375,947.96
042	Profit for the period/ year		11,540,965,674.06	10,067,751,743.03
043	Other comprehensive income		0.00	0.00
044	(A) items that will not be reclassified to profit or loss		0.00	0.00
045	<ul> <li>Nat gains/(losses) on feir value of equity instruments through other comprehensive income</li> </ul>		0.00	0.00
046	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
047	- Net acturial gains/(losses) on defined benefit plans		-8.725.634.75	-24.001.329.30
348	income tax on above that will not be reclassified to profit or loss		0.00	0.00
052		43	0.00	0.00
053	Other comprehensive income for the year, net of income tax		-9,725,634.75	-24,061,329,38
054			0.00	0.00
065	Total Comprehensive Income for the year		11,531,240,239.31	10,043,690,413.65
069	ACCUPATION REPRESENTATION OF THE PROPERTY.		0.00	0.00

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अपए महासम्बद्ध (वाणिविक्क) Add. Conent Manager (Commercial) एन में के के लिक्टिन (AMER) Page 1 of 2



STATEMENT OF PROFIT AND LOSS

( Amount in ₹)

-	Children of the contract of th			
	For the Year ended	Note	31.03.2022	31.03.2021
070	Earnings per equity share:		0.00	0.00
071	Basic & Diluted		0.00	0.00
072	Significent Accounting Policies		0.00	0.00
073	Expenditure during construction period (NetlyDe cost mines (net) 43 /43A	w. of	0.00	0.00
074	The accompanying noise 1 to 44 form an integral these financial statements.	the part	0.00	0.00

NARENDER Supervision (I) MARENDER EUMAR DIATESTA (I) CHATRATH (II) SALIR +60'30'

( Head of Finance )

(Auditor Initial & Stamp)

( Head of Unit )

देवज्ञत पॉल/DEBABRATA PAU मुख्य महाप्रशंपक/Chief General Manager एनटीपीली किमिटेर/WTPC Ltd

रिहंद सुपर धर्मल पाउर प्रोजेक्ट/शाका**PF** सिहंदनगर सीनगद्दा/Rihandhager Sonethuora 23125

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OTH	ER COMPREHENSIVE INCOME		( Amount in ₹)
	For the Year ended	31.03.2022	31.03.2021
001	24	0.00	0.00
002	Other comprehensive income	0.00	0.00
003	(A) Items that will not be reclassified to profit or loss	0.00	0.00
004	- Net gains/(losses) on fair value of equity instruments through other comprehensive income	0.00	0.00
005	Income tax on above that will not be reclassified to profit or loss	0.00	0.00
006	- Net acturial gains/(losses) on defined benefit plans	-9,725,634.75	-24,061,329.38
007	Income tax on above that will not be reclassified to profit or loss	0.00	0.00
008		0.00	0.00
009	(B) Items that will be reclassified to profit or loss	0.00	0.00
010	Income tax relating to above items that will be reclassified to profit or loss	0.00	0.00
011		0.00	0.00
012	Other comprehensive income for the year, net of income tax	-9,725,634.75	-24,061,329.38
013		0.00	0.00
014	Total comprehensive income for the year (A+B)	-9,725,634.75	-24,061,329.38

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अपर महासम्बद्ध (वाणिरियक) Add. General Manager (Commercial) एन दें भी केलिक्ट Americ

Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	355016843.25	0.00	0.00	355016843.25	0.00	0.00	0.00	0.00	355016843.25	355016843.25
4 Right of Use	312564894.63	0.00	0.00	312564894.63	75199268.84	10281521.39	0.00	85480790.23	227084104.40	237365625.79
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of use - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	636606867.94	(269253.24)	0.00	636337614.70	133087366.86	23512878.36	0.00	156600245.22	479737369.48	503519501.08
8 Building :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	1852956664.03	0.00	0.00	1852956664.03	375720477.77	62828072.55	0.00	438548550.32	1414408113.71	1477236186.26
11 Others	2548970049.68	12664437.15	0.00	2561634486.83	483509018.08	94762460.79	0.00	578271478.87	1983363007.96	2065461031.60
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	231168.13	0.00	0.00	231168.13	231168.13	0.00	0.00	231168.13	0.00	0.00
14 Water Supply, drainage & sewerage system	546047713.55	174330.49	0.00	546222044.04	122630859.19	24515723.17	0.00	147146582.36	399075461.68	423416854.36
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	1354372126.56	(593252.00)	0.00	1353778874.56	353590079.10	72484055.87	0.00	426074134.97	927704739.59	1000782047.46
17 Railway siding	1528212.48	0.00	0.00	1528212.48	647947.27	64482.46	0.00	712429.73	815782.75	880265.21
18 Earth dam reservoir	1456921.40	0.00	0.00	1456921.40	0.00	0.00	0.00	0.00	1456921.40	1456921.40
19 Plant and machinery(including associated civil works) Owned Asset	73454969525.57	1419281937.84	(709636889.90)	74164614573.51	26464731965.27	4360969561.58	(891144942.35)	29934556584.50	44230057989.01	46990237560.30



Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
20 Plant and machinery(including associated civil works) -Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Furniture and fixtures	174736234.40	328989.06	(100504.92)	174964718.54	65711646.15	12929549.78	(46237.44)	78594958.49	96369760.05	109024588.25
22 Assets under 5 Km Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Vehicles including speedboats / helicopter- Owned	6558165.35	639950.00	0.00	7198115.35	2606042.68	601648.03	0.00	3207690.71	3990424.64	3952122.67
24 Vehicles including speedboats / helicopter - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Office equipment	98040349.95	4307450.36	(2030608.41)	100317191.90	49456082.48	11847049.85	(1608611.96)	59694520.37	40622671.53	48584267.47
26 EDP, WP machines and satcom equipment	91240904.66	2416725.00	(12113429.83)	81544199.83	72829119.51	5817477.91	(12113429.83)	66533167.59	15011032.24	18411785.15
27 Construction equipments	65110895.86	0.00	0.00	65110895.86	27046537.19	2027521.74	0.00	29074058.93	36036836.93	38064358.67
28 Electrical Installations	331082244.94	0.00	(4203.95)	331078040.99	118467469.81	21541198.64	(928.05)	140007740.40	191070300.59	212614775.13
29 Communication equipments	31934747.30	21600.00	0.00	31956347.30	23821990.01	782560.36	0.00	24604550.37	7351796.93	8112757.29
30 Hospital equipments	30920925.67	4058616.65	(40145.34)	34939396.98	7684258.47	9759155.28	(12511.80)	17430901.95	17508495.03	23236667.20
31 Laboratory and workshop equipments	145735570.77	3673430.05	0.00	149409000.82	43658963.64	7793475.30	0.00	51452438.94	97956561.88	102076607.13
32 Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Assets of Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 (Less):-Adjusted from fly ash utilisation reserve fund	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	82040081026.12	1446704961.36	(723925782.35)	82762860205.13	28420630260.45	4722518393.06	(904926661.43)	32238221992.08	50524638213.05	53619450765.67
Grand Total Prev Year (Tangible)	80674819862.02	1773251621.02	(407990456.92)	82040081026.12	23946318351.92	4601404034.44	(127092125.91)	28420630260.45	53619450765.67	56728501510.10

Details of Adjustmen	Details of Adjustments of Gross Block and Depreciation/Amortization									
Particulars	Gross	Block	Depreciation/Amortization							
	Tangible As At: 31.03.2022	Tangible As At: 31.03.2021	Tangible As At: 31.03.2022	Tangible As At: 31.03.2021						
Disposal of assets	(352672.50)	(2046638.78)	(352672.50)	(2032443.32)						
Retirement of assets	(995236466.75)	(360826985.21)	(926400049.04)	(129619476.73)						
Cost adjustments	154890055.40	(61206706.58)	0.00	0.00						
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00						
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00						
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00						
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00						
Transfer in /out because of Inter Unit transfers	116773301.50	16089873.65	21826060.11	4559794.14						
Others	0.00	0.00	0.00	0.00						
TOTAL	(723925782.35)	(407990456.92)	(904926661.43)	(127092125.91)						

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

#### Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2021	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2022
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads		369117.82	(369117.82)		
4	Piling and foundation					
5	Buildings:					
6	Main plant					
7	Others	30484260.95	69392323.59	(6172504.26)	9794375.87	83909704.41
8	Temporary erection					
9	Water supply, drainage and sewerage system	983235.00	174330.49	(174330.49)	983235.00	
10	Hydraulic works, barrages, dams, tunnels and power channel					
11	MGR track and signalling system					
12	Railway siding					
13	Earth dam reservoir					
14	Plant and equipment	2517433025.87	4706070908.49	(53446737.16)	864768104.75	6305289092.45
15	Furniture and fixtures	24645.15	14449.15	(0.30)	39094.00	
16	Vehicles					
17	Office equipment	35588.00			35588.00	
18	EDP/WP machines & satcom equipment					
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments	256888.29		(0.29)	256888.00	
23	Laboratory and workshop equipments					
24	Assets under 5Km Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey,Investigation,Consultancy & Supervision Cha	2987667.50	(2987667.50)			
28	Difference in exchange on foreign currency loans					

Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2021	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2022
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commissioning expenses (net)					
31	ExpPendAlloca-oth ex attribut Project					
32	Expenditure During Construction Period (net)*		120562893.48	(658525.44)		119904368.04
33	LESS : Allocated to related works		119904368.04			119904368.04
34	LESS : Provision for Unservicable works					
35	Construction stores (At Cost)					
36	Steel	30232834.59		(27684050.92)		2548783.67
37	Cement	2028131.88		(133175.58)		1894956.30
38	Others	453879656.07	35319846.24	(122905473.69)		366294028.62
39	Sub-total	486140622.54	35319846.24	(150722700.19)		370737768.59
40	LESS : Provision for shortages	7250922.60		(5781192.05)		1469730.55
41	Sub-total	478889699.94	35319846.24	(144941508.14)		369268038.04
42	Total CWIP	3031095010.70	4809011833.72	(205762723.90)	875877285.62	6758466834.90
43						
44						
45	PREVIOUS YEAR TOTAL	823654175.83	2730008295.62	(461315487.17)	463240206.90	3031095010.70

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) :

0.00

Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 -Software	4773867.26	0.00	0.00	4773867.26	4758604.86	0.00	0.00	4758604.86	15262.40	15262.40
Grand Total (Intangible)	4773867.26	0.00	0.00	4773867.26	4758604.86	0.00	0.00	4758604.86	15262.40	15262.40
Grand Total Prev Year (Intangible)	4773867.26	0.00	0.00	4773867.26	4754287.08	4317.78	0.00	4758604.86	15262.40	19580.18

Details of Adjustments of Gross Block and Depreciation/Amortization									
Particulars	Gross	Block	Depreciation	n/Amortization					
	InTangible As At: 31.03.2022	InTangible As At: 31.03.2021	InTangible As At: 31.03.2022	InTangible As At: 31.03.2021					
Disposal of assets	0.00	0.00	0.00	0.00					
Retirement of assets	0.00	0.00	0.00	0.00					
Cost adjustments	0.00	0.00	0.00	0.00					
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00					
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00					
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00					
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00					
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00					
Others	0.00	0.00	0.00	0.00					
TOTAL	0.00	0.00	0.00	0.00					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet Note 5: Intangible Assets under Development Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2021	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2022
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Others					
4	Exploration and Evaluation Expentiture - Coal Mini					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) :

0.00



#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2022	31.03.2021
001	NON CURRENT INVESTMENTS- INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES			0.00	0.00
12	EQUITY INSTRUMENTS - UNQUOTED-(FULLY PAID UP UNLESS OTHERWISE STATED, AT COST)			0.00	0.00
13	SUBSIDIARY COMPANIES			0.00	0.00
14	PATRATU VIDYUT UTPADAN NIGAM LTD.			0.00	0.00
15	NTPC ELECTRIC SUPPLY COMPANY LTD.			0.00	0.00
)16	NTPC VIDYUT VYAPAR NIGAM LTD.			0.00	0.00
)17	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
18	KANTI BIJLEE UTPADAN NIGAM LTD.			0.00	0.00
19	BHARTIYA RAIL BIJLEE COMPANY LTD.			0.00	0.00
20	NTPC MINING LTD (NML)			0.00	0.00
21	THDC INDIA LTD.			0.00	0.00
22	NEEPCO LTD.			0.00	0.00
23	NTPC EDMC Waste Solutions Pvt Ltd			0.00	0.00
24	NTPC Renewables Energy Ltd			0.00	0.00
25	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
)26				0.00	0.00
27				0.00	0.00
28				0.00	0.00
29				0.00	0.00
30	SUB TOTAL			0.00	0.00
55	JOINT VENTURE COMPANIES			0.00	0.00
56	Utility Powertech Ltd.			0.00	0.00
57	NTPC GE Power Services Pvt.Ltd.			0.00	0.00
58	NTPC-SAIL Power Company Ltd.			0.00	0.00
)59	NTPC-Tamil Nadu Energy Company Ltd.			0.00	0.00

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#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹ )

	As at	No. of shares	Face value	31.03.2022	31.03.2021
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL	)		0.00	0.00
061	ARAVALI POWER COMPANY PRIVATE			0.00	0.00
062				0.00	0.00
063	NTPC BHEL POWER PROJECTS PRIVATE	:		0.00	0.00
064	MEJA URJA NIGAM PRIVATE LIMITED			0.00	0.00
065	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
066				0.00	0.00
067	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
068	TRANSFORMER AND ELECTRICAL KERALA LTD.			0.00	0.00
069	NATIONAL HIGH POWER TEST			0.00	0.00
070	LABORTORY PRIVATE LTD.			0.00	0.00
071	CIL NTPC URJA PRIVATE LTD.			0.00	0.00
072	ANUSHAKTI VIDHYUT NIGAM LTD.			0.00	0.00
073	ENERGY EFFICIENCY SERVICES LTD.			0.00	0.00
074				0.00	0.00
075	TRINCOMALEE POWER COMPANY LTD.			0.00	0.00
076	BANGLADESH-INDIA FRIENDSHIP POWER COMPANY (PVT.) LTD.			0.00	0.00
077	HINDUSTAN URVARAK & RASAYAN LIMITED			0.00	0.00
078	KONKAN LNG LTD			0.00	0.00
081	SUB TOTAL			0.00	0.00
109	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
110	TOTAL (NET OF IMPAIRMENT) OF JV			0.00	0.00
111	Gross Total of Investments			0.00	0.00
134	Total			0.00	0.00
135	Details of Investments			0.00	0.00
136	Aggregate amount of Unquoted Investments			0.00	0.00

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#### NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

( Amount in ₹ )

As at	No. of shares	Face value	31.03.2022	31.03.2021
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
Valuation of Investments as per Note 1.			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00

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### NOTE NO. 7 TO THE FS-NCA-INVESTMENTS

( Amount in ₹ )

	As at	No. of shares	Face value	31.03.2022	31.03.2021
001	Non-current financial assets (investments)			0.00	0.00
006	Long Term - Trade			0.00	0.00
007	Equity Instruments (fully paid up-unless otherwise stated)			0.00	0.00
800	Quoted			0.00	0.00
009	JOINT VENTURE COMPANIES			0.00	0.00
010	PTC India Ltd.			0.00	0.00
070	INTERNATIONAL COAL VENTURES PRIVATE LTD.			0.00	0.00
075	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
098				0.00	0.00
110	COOPERATIVE SOCIETIES			0.00	0.00
111	SUB TOTAL			0.00	0.00
112	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
115	TOTAL			0.00	0.00
120				0.00	0.00
146	NTPC EMPLOYEES CONSUMERS AND THRIFT CO-OPERATIVE SOCIETY LTD. KORBA			0.00	0.00
147	NTPC EMPLOYEES CONSUMERS AND THRIFT COOPERATIVE SOCIETY LTD. RSTPP			0.00	0.00
148	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. FARAKKA			0.00	0.00
149	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. VINDHYACHAL			0.00	0.00
150	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. ANTA			0.00	0.00
151	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. KAWAS			0.00	0.00
152	NTPC Employees Consumers Cooperative Society Ltd. Kaniha	е		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 8 TO THE FS-NCA-TRADE RECEIVABLES

( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Non-current financial assets - Trade receivables	0.00	0.00
002	UNSECURED, CONSIDERED GOOD	0.00	0.00
003	CREDIT IMPAIRED	0.00	0.00
004		0.00	0.00
005		0.00	0.00
006	Total	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 9 TO THE FS-NCA-LOANS

( Amount in ₹)

NOI	E NO. 9 TO THE FS-NCA-LOANS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	LOANS (NON CURRENT)	0.00	0.00
004	RELATED PARTIES	0.00	0.00
005	SECURED	0.00	0.00
006	UN-SECURED	0.00	0.00
007	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
800	CREDIT IMPAIRED	0.00	0.00
009		0.00	0.00
010	EMPLOYEES(INCLUDING ACCRUED INTEREST)	0.00	0.00
011	SECURED	87,385,641.00	81,563,013.15
012	UNSECURED	55,663,708.67	53,273,361.38
013	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
014	CREDIT IMPAIRED	0.00	0.00
015	LESS: EMPLOYEE LOANS DISCOUNTING	0.00	0.00
016	SECURED	21,476,411.67	22,067,890.23
017	UNSECURED	7,068,344.03	7,408,004.99
018	LOAN TO STATE GOVERNMENT IN SETTLEMENT OF DUES FROM CUSTOMERS (UNSECURED)	0.00	0.00
019	OTHERS	0.00	0.00
020	SECURED	0.00	0.00
021	UNSECURED	0.00	0.00
022	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
023	CREDIT IMPAIRED	0.00	0.00
024	LESS: ALLOWANCE FOR CREDIT IMPAIRED LOANS	0.00	0.00
025	SUB TOTAL	114,504,593.97	105,360,479.31
026		0.00	0.00
027	TOTAL	114,504,593.97	105,360,479.31
028		0.00	0.00
029		0.00	0.00
030	Due from Directors and Officers of the Company	0.00	0.00
031	Directors	0.00	0.00
032	Officers	0.00	0.00
033		0.00	0.00
034	Loans to related parties include:	0.00	0.00
035	i)Key management personel	0.00	0.00
036	ii)Subsidiary companies	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)Others	0.00	0.00
039		0.00	0.00
054	Other loans represent loans given to	0.00	0.00
055	a) APIIC	0.00	0.00
060		0.00	0.00
061	RPD	0.00	0.00
062	i)Key management personel	0.00	0.00
	, ,	5.55	3.00

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NOTE NO. 9 TO THE FS-NCA-LOANS

( Amount in ₹)

	As at	31.03.2022	31.03.2021
063	ii)Subsidiary companies	0.00	0.00
064	iii)Joint Venture companies	0.00	0.00
065	iv)Others	0.00	0.00
066	Total	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS

( Amount in ₹)

NOIE	NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS		( Amount in ? )
-	As at	31.03.2022	31.03.2021
001	Other Financial Assets (non current)	0.00	0.00
002		0.00	0.00
	Share application money pending allotment in (Subsidiary Companies) :	0.00	0.00
004 1	NTPC Electric Supply Company Ltd.	0.00	0.00
005 1	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
1 800	Nabinagar Power Generating Company Ltd.	0.00	0.00
007 ł	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
800 B	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009 F	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012 1	NEEPCO Ltd	0.00	0.00
013		0.00	0.00
014	Total	0.00	0.00
	Share application money pending allotment (Joint Venture)	0.00	0.00
016 l	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018 1	NTPC-SAIL Power Company Ltd.	0.00	0.00
019 1	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020 F	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021 /	Aravali Power Company Private Ltd.	0.00	0.00
022		0.00	0.00
023 1	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024 ľ	Meja Urja Nigam Private Limited	0.00	0.00
025 E	BF-NTPC Energy Systems Ltd.	0.00	0.00
026 <i>A</i>	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
028 E	Energy Efficiency Services Ltd.	0.00	0.00
029 1	National High Power Test Labortory Private Ltd.	0.00	0.00
030		0.00	0.00
031 (	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033 l	Hindustan Urvarak & Rasayan Limited	0.00	0.00
	Bangladesh-India Friendship Power Company Private Ltd	0.00	0.00
035	Sub Total	0.00	0.00
036		0.00	0.00
037 (	Claims Recoverable	0.00	0.00
038 F	Finance Lease Recoverable	0.00	0.00
039 1	Mine Closure Deposit	0.00	0.00
041	Total	0.00	0.00

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As at 31.03.2022 31.03.2021

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

( Amount in ₹)

NOT	E NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASS	ETS	(Amount in ₹)
	As at	31.03.2022	31.03.2021
001	Other Non-current Assets	0.00	0.00
002		0.00	0.00
003	CAPITAL ADVANCES	0.00	0.00
004	SECURED	0.00	0.00
005	Unsecured	0.00	0.00
006	COVERED BY BANK GUARANTEE	194,789,674.00	374,937,145.32
007	OTHERS	53,588,917.11	23,546,752.62
800	CONSIDERED DOUBTFUL	0.00	0.00
009	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	0.00	0.00
010	Sub-Total	248,378,591.11	398,483,897.94
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	SECURITY DEPOSITS	87,880.00	1,436,400.00
019	Advances to Related parties	0.00	0.00
022	Advances to Contractors & Suppliers	0.00	0.00
023	SECURED	0.00	0.00
024	UNSECURED	0.00	0.00
025	CONSIDERED DOUBTFUL	0.00	0.00
026	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	0.00	0.00
027	Sub Total	87,880.00	1,436,400.00
028	RECEIVABLE FROM MCP ESCROW A/C	0.00	0.00
039	ADVANCE TAX & TAX DEDUCTED AT SOURCE	7,544,241.17	2,447,428.10
040	LESS:- PROVISION FOR CURRENT TAX	0.00	0.00
041		0.00	0.00
042	Sub Total	7,544,241.17	2,447,428.10
043	DEFERRED PAYROLL EXPENSES (SECURED)	16,323,225.74	17,618,156.45
044	DEFERRED PAYROLL EXPENSES (UNSECURED)	4,860,126.54	5,186,725.53
045	Sub Total	21,183,352.28	22,804,881.98
046	DEFERRED FOREIGN CURRENCY FLUCTUATION ASSET	744,410,000.00	1,799,476,000.00
048	Total	1,021,604,064.56	2,224,648,608.02
049		0.00	0.00
050		0.00	0.00
061	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
063		0.00	0.00
064	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
065		0.00	0.00
066	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
067	Aravali Power Company Private Ltd.	0.00	0.00
068	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
069	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
070	Meja Urja Nigam Private Limited	0.00	0.00
J. U	oja olja riigam riirato Emilioa	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

( Amount in ₹)

	As at	31.03.2022	31.03.2021
071	Nabinagar Power Generating Company Ltd.	0.00	0.00
072	National High Power Test Labortory Private Ltd.	0.00	0.00
074	CIL NTPC Urja Private Ltd.	0.00	0.00
076		0.00	0.00
077	Related Party (Adv)	0.00	0.00
078	Key Management personel	0.00	0.00
079	Subsidiary companies	0.00	0.00
080	Joint Venture companies	0.00	0.00
081	Contractors	0.00	0.00
082	Others	0.00	0.00
084		0.00	0.00
085	Total	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 12 TO THE FS-CA-INVENTORIES

( Amount in ₹)

1401	L NO. 12 TO THE TO-CA-INVENTORIES		( Alliount iii \ )
	As at	31.03.2022	31.03.2021
001	INVENTORIES	0.00	0.00
002		0.00	0.00
003	Coal	2,703,905,576.35	1,293,481,712.46
004	Fuel oil	331,140,312.31	221,275,469.56
005	Naphtha	0.00	0.00
006	Stores and spares	2,663,630,801.56	2,434,045,104.96
007	Chemicals & consumables	65,606,636.51	84,873,916.88
800	Loose tools	1,308,727.02	1,320,987.78
009	Steel Scrap	6,531,859.28	10,032,350.58
010	Others	670,976,891.13	578,527,487.01
011	Sub Total	6,443,100,804.16	4,623,557,029.23
012	Less: Provision for shortages	1,655,918.65	1,116,991.43
013	Less: Provision for obsolete/ unservicable/dimunition in value of surplus inventory	33,701,668.96	22,832,831.53
014		0.00	0.00
015	Total	6,407,743,216.55	4,599,607,206.27
016	Inventories include material in transit	0.00	0.00
017	Coal	0.00	0.00
018	Fuel oil	0.00	0.00
019	Naphtha	0.00	0.00
020	Stores and spares	7,409,492.60	14,287,641.72
021	Chemicals & consumables	8,269,466.13	0.00
022	Loose tools	0.00	0.00
023	Others	12,040,077.62	0.00
024		0.00	0.00
025	Inventory items other than steel scrap have been valued considering Note 1.	0.00	0.00

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### NOTE NO. 13 TO THE FS-CA-INVESTMENTS

( Amount in ₹ )

As at	No. of shares	Face value	31.03.2022	31.03.2021
CURRENT INVESTMENTS			0.00	0.00
(Valuation as per Note 1)			0.00	0.00
			0.00	0.00
Investment in Mutual Funds (Details as under)			0.00	0.00
SBI-Magnum Insta Cash Fund-DDR			0.00	0.00
SBI Premier Liquid Fund Super-IP-DDR			0.00	0.00
SBI-SHF Ultra Short Term Fund-IP-DDR			0.00	0.00
UTI Money Market- IP-Direct-Growth			0.00	0.00
IDBI-Liquid plan- Direct-Growth			0.00	0.00
Canara Robeco Liquid Fund Super-IP-DDR			0.00	0.00
Canara Robeco Treasury Advantage Fund Super-IP-DDR			0.00	0.00
IDBI Liquid Fund-DDR			0.00	0.00
SBI Premier Liquid fund-Direct DDR (Ash Fund)			0.00	0.00
UTI Liquid CashPlan - IP - DDR (Ash Funds)			0.00	0.00
IDBI Liquid Fund - DDR - (Ash Funds)			0.00	0.00
Baroda Liquid Fund - Direct - Growth			0.00	0.00
Sub Total			0.00	0.00
			0.00	0.00
Unquoted Investments			0.00	0.00
			0.00	0.00
TOTAL			0.00	0.00
			0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

( Amount in ₹)

-	NO. 14 TO THE FS-CA-TRADE RECEIVABLES		( Amount in ₹ )
<u> </u>	As at	31.03.2022	31.03.2021
001 7	FRADE RECEIVABLES (current)*	0.00	0.00
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004 l	Jnsecured , considered good	1,733,397.09	15,464,355.69
005 (	Credit impaired	0.00	0.00
006 l	Jnbilled Revenue	0.00	0.00
007	Sub-Total _	1,733,397.09	15,464,355.69
008 1	Total _	1,733,397.09	15,464,355.69
009 L	_ess: Allowance for credit impaired receivables	0.00	0.00
010 7	Total _	1,733,397.09	15,464,355.69
012 L	Less: Discom Clearing	0.00	0.00
013 (	Grand Total	1,733,397.09	15,464,355.69
014 *	After adjustment for Unbilled Revenue	0.00	0.00
015 L	ong-term trade receivables	0.00	0.00
016 7	rcs Clearing	0.00	0.00
017 [	Discom Clearing	0.00	0.00
228 1	Frade Receivable	0.00	0.00
230 N	Not due	0.00	0.00
	Due	0.00	0.00
232 (	i) Undisputed Trade receivables # considered	1,733,397.09	15,464,355.69
233 (	ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
234 (	iii) Undisputed Trade Receivables # credit mpaired	0.00	0.00
	iv) Disputed Trade Receivables#considered good	0.00	0.00
236 (	(v) Disputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
	vi) Disputed Trade Receivables # credit impaired	0.00	0.00
,	Jnbilled	0.00	0.00
	- Fotal	1,733,397.09	15,464,355.69
240		0.00	0.00
241 <b>(</b>	i) Undisputed Trade receivables # considered	0.00	0.00
	Less than 6 months	1,733,397.09	15,464,355.69
	6 months -1 year	0.00	0.00
	1-2 years	0.00	0.00
	2-3 years	0.00	0.00
	More than 3 years	0.00	0.00
	Sub Total (I)	1,733,397.09	15,464,355.69
	ii) Undisputed Trade Receivables # which have	0.00	0.00
\$	significant increase in credit risk		
	Less than 6 months	0.00	0.00
	6 months -1 year	0.00	0.00
	1-2 years	0.00	0.00
	2-3 years	0.00	0.00
253 N	More than 3 years	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

( Amount in ₹)

	E NO. 14 TO THE TO OA TRADE RECEIVABLES		( Amount m x )
	As at	31.03.2022	31.03.2021
254	Sub Total (II)	0.00	0.00
255	(iv) Disputed Trade Receivables#considered good	0.00	0.00
256	Less than 6 months	0.00	0.00
257	6 months -1 year	0.00	0.00
258	1-2 years	0.00	0.00
259	2-3 years	0.00	0.00
260	More than 3 years	0.00	0.00
261	Sub Total (IV)	0.00	0.00
262	(v) Disputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
263	Less than 6 months	0.00	0.00
264	6 months -1 year	0.00	0.00
265	1-2 years	0.00	0.00
266	2-3 years	0.00	0.00
267	More than 3 years	0.00	0.00
268	Sub Total (V)	0.00	0.00
269	(vi) Disputed Trade Receivables # credit impaired	0.00	0.00
270	Less than 6 months	0.00	0.00
271	6 months -1 year	0.00	0.00
272	1-2 years	0.00	0.00
273	2-3 years	0.00	0.00
274	More than 3 years	0.00	0.00
275	Sub Total (VI)	0.00	0.00
276	Total	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 15 TO THE FS-CA-CASH AND CASH EQUIVALENTS

( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	CASH & BANK BALANCES	0.00	0.00
002	Cash & Cash Equivalents	0.00	0.00
003	Balances with Banks	0.00	240,123.40
004	Cheques & Drafts on hand	0.00	150,000.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	0.00	0.00
007	Bank deposits with original maturity upto three months	0.00	0.00
800	Balances with RBI	0.00	0.00
009		0.00	0.00
010	Total	0.00	390,123.40

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#### NOTE NO. 16 TO THE FS-CA-BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS ( Amount in ₹) 31.03.2022 31.03.2021 001 **Other Bank Balances** 0.00 0.00 002 Deposits with original maturity of more than three 0.00 0.00 months but not more than twelve months 003 Earmarked balances with banks\* 0.00 0.00 004 **SubTotal** 0.00 0.00 005 Interest accrued on deposits 0.00 0.00 006 0.00 0.00 007 **Total** 0.00 0.00 800 0.00 0.00 009 Earmarked balances with banks consist of : 0.00 0.00 010 Unpaid dividend account balance 0.00 0.00 011 Towards public deposit repayment reserve 0.00 0.00 Towards redemption of bonds due for repayment 012 0.00 0.00 within one year 0.00 0.00 013 Security with Government/other authorities 014 Unpaid refund/interest account balance - Tax free 0.00 0.00 bonds/ Bonus Debentures 015 Earmarked for RGGVY/DDUGJY/SAUBHAGYA 0.00 0.00 Fund 0.00 0.00 016 Earmarked for Flyash Utilisation Reserve Fund 0.00 017 Deposits with original maturity upto three months 0.00 as per court orders 018 Payment Security Scheme of MNRE NSM (NTPC) 0.00 0.00 Payment Security Scheme of MNRE NSM 019 0.00 0.00

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other than earmarked

(NVVN)

Others

Sub-total

Total

Margin Money

Enforcement Directorate of Solar Plant(NVVN)

Bank deposits with original maturity of less than

Bank deposits with original maturity of more than

three months but not more than twelve months-

three months- other than earmarked

034 Earmarked bank balances (current account)

Bank guarantee Fund of MNRE (NVVN)

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 17 TO THE FS-CA-LOANS

( Amount in ₹)

NOT	E NO. 17 TO THE FS-CA-LOANS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	Current financial assets - Loans	0.00	0.00
002	Loans (current)-including interest accrued	0.00	0.00
004	Related Parties	0.00	0.00
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
800	Credit impaired	0.00	0.00
009		0.00	0.00
010	Employees	0.00	0.00
011	Secured	19,369,168.43	18,592,501.77
012	Unsecured	56,443,419.22	50,222,125.18
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	Loan to State Government in settlement of dues from customers (Unsecured)	0.00	0.00
017	· ·	0.00	0.00
018	Others	0.00	0.00
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		0.00	0.00
024	Less: Allowance for credit impaired loans	0.00	0.00
025	Total (Loans)	75,812,587.65	68,814,626.95
026		0.00	0.00
027	Due from Directors and Officers of the	0.00	0.00
·	Company		5.60
028	Directors	0.00	0.00
029	Officers	0.00	0.00
030		0.00	0.00
031	Loans to related parties include:	0.00	0.00
032	i)Key management personel	0.00	0.00
033	ii)Subsidiary companies	0.00	0.00
034	KBUNL	0.00	0.00
035	RGPPL	0.00	0.00
036	NVVN	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)others	0.00	0.00
039	TV/Others	0.00	0.00
059	RPD	0.00	0.00
060	i)Key management personel	0.00	0.00
061	ii)Subsidiary companies	0.00	0.00
062	iii)Joint Venture companies	0.00	0.00
	·	0.00	
063 064	iv)Others	0.00	0.00
	Total		0.00
065	Total _	0.00	0.00

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#### RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

( Amount in ₹)

NOI	E NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	Other Financial Assets (current)	0.00	0.00
02		0.00	0.00
03	ADVANCES	0.00	0.00
04		0.00	0.00
05	Related Parties	0.00	0.00
06	Secured	0.00	0.00
07	Un-Secured	75,281,568.77	75,433,495.80
80	Considered doubtful	0.00	0.00
09		0.00	0.00
10	Employees	0.00	0.00
12	Unsecured	4,837,250.36	2,693,948.65
13	Considered Doubtful	0.00	0.00
14		0.00	0.00
20	Others	0.00	0.00
21	Secured	0.00	0.00
22	Unsecured	0.00	0.00
23	Considered Doubtful	0.00	0.00
24	Contraction Deadling.	0.00	0.00
25	Less: Allowance for bad & doubtful advances	0.00	0.00
26	Less. Allowance for bad & doubtful advances	0.00	0.00
33	Total (Advances)	80,118,819.13	78,127,444.45
44		0.00	0.00
4 <del>5</del>	Claims Recoverable	0.00	0.00
46	Secured	0.00	0.00
40 47	Unsecured, considered good		
47 48	Considered Doubtful	2,233,059.02 0.00	3,413,667.00
			0.00
49 50	Less:- Allowance for doubtful claims	0.00	0.00
50	Others-Claims Recoverable	0.00	0.00
51	Octobro Associa Process	0.00	0.00
	Contract Asset- Revenue	2,841,100.83	2,841,100.83
53	Hedging cost recoverable from beneficiaries	0.00	0.00
54	Derivative MTM Asset	0.00	0.00
55	Finance Lease Receivable	0.00	0.00
56	Mine Closure Deposit	0.00	0.00
58	Other Accrued Income	0.00	0.00
59	Secured,Considered Good	0.00	0.00
60	Unsecured, considered good	64,097,982.95	84,093,847.15
61	Credit impaired	0.00	0.00
62	Sub-Total	64,097,982.95	84,093,847.15
63	Less: Allowance for credit impaired receivables	0.00	0.00
64	Total	64,097,982.95	84,093,847.15
65		0.00	0.00
66	Others*	0.00	0.00
67	Total	149,290,961.93	168,476,059.43
89	* Other include amount recoverable from contractors and other parties towards hire charges,	0.00	0.00
	rent/electricity etc.		

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

( Amount in ₹)

	As at	31.03.2022	31.03.2021
069	Advances to related parties include:	0.00	0.00
070	i)Key management personel	0.00	0.00
071	ii)Subsidiary companies	0.00	0.00
072	iii)Joint Venture companies	0.00	0.00
073	iv)Contractors	0.00	0.00
074	v)Others	0.00	0.00
075		0.00	0.00
076	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
077		0.00	0.00
078	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
079	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
080	Aravali Power Company Private Ltd.	0.00	0.00
081	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
082	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
083	Meja Urja Nigam Private Limited	0.00	0.00
084	Nabinagar Power Generating Company Ltd.	0.00	0.00
085	National High Power Test Labortory Private Ltd.	0.00	0.00
086	International Coal Ventures Private Ltd.	0.00	0.00
087	CIL NTPC Urja Private Ltd.	0.00	0.00
089	Bangladesh-India Friendship Power Co. Pvt.Ltd	0.00	0.00
090	TCS Clearing	0.00	0.00
091	Related Party (Adv)- Employee	0.00	0.00
092	Related Party (Adv)- Subsidiaries	0.00	0.00
093	Related Party (Adv)- Joint Ventures	0.00	0.00
094	Related Party (Adv)- Contractors	0.00	0.00
095	Related Party (Adv)- Others	75,281,568.77	75,433,495.80
096		0.00	0.00
097		0.00	0.00
098		0.00	0.00
099		0.00	0.00
100	Total	75,281,568.77	75,433,495.80

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

( Amount in ₹)

NOTE NO.	19 TO THE FS-CA-OTHER CURRENT ASSETS		( Amount in ₹ )
As a	t	31.03.2022	31.03.2021
001 <b>OTH</b>	ER CURRENT ASSETS	0.00	0.00
002 Secu	urity Deposits (Unsecured)	0.00	0.00
003 Depo	osit with Customs, port trust & others*	2,249,156.00	900,636.00
004 <b>ADV</b>	ANCES	0.00	0.00
005		0.00	0.00
006 <b>Rela</b>	ted Parties	0.00	0.00
007 Secu	ured	0.00	0.00
008 Un-S	Secured	1,407,513.00	1,407,513.00
009 Cons	sidered doubtful	0.00	0.00
010		0.00	0.00
011 <b>Emp</b>	oloyees(including imprest)	0.00	0.00
)12 Secu		0.00	0.00
	ecured	355,986.00	310,414.00
	sidered Doubtful	0.00	0.00
)15	3.33.33.	0.00	0.00
	tractors & Suppliers	0.00	0.00
017 Secu	• •	0.00	0.00
	ecured	136,271,338.36	203,102,280.46
	sidered Doubtful	0.00	0.00
020	Sidered Doubtidi	0.00	0.00
)20 )21 <b>Othe</b>	\re**	0.00	0.00
)21 Secu		0.00	0.00
	ecured		
		18,584,624.00	24,626,717.00
	sidered Doubtful	0.00	0.00
	:: Allowance for bad & doubtful advances	0.00	0.00
	eivable from MCP Escrow A/c	0.00	0.00
	erred Payroll Expenses (Secured)	2,129,056.99	2,319,227.24
	erred Payroll Expenses (Unsecured)	3,686,929.13	3,778,654.23
	-total	5,815,986.12	6,097,881.47
	rest accrued on :	0.00	0.00
	ances to contractors	0.00	0.00
)32		0.00	0.00
	ms Recoverable	0.00	0.00
034 Secu	ıred	0.00	0.00
035 Unse	ecured, considered good	286,458,564.02	227,947,046.81
036 Cons	sidered Doubtful	26,600,000.00	26,600,000.00
037 Less	:- Allowance for doubtful claims	26,600,000.00	26,600,000.00
)38		0.00	0.00
	rred premium on forward exchange contract/ on Assets	0.00	0.00
041 Asse	ets Held for Disposal	42,084.39	42,084.39
042 Othe	ers	3,824,265.73	5,071,018.00
043		0.00	0.00
)44 <b>Tota</b>	Il (Other Current Assets)	455,009,517.62	469,505,591.13
	Elude Prepaid Expenses	17,926,405.00	24,275,748.00
046 *Incl	udes sales tax/Entry tax/VAT deposited under	812,756.00	812,756.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

( Amount in ₹)

	A a at	24 02 2022	24.02.2024
o 4=	As at	31.03.2022	31.03.2021
047	*Includes deposited with courts	0.00	0.00
048	*Includes deposited with LIC for annuity payments	0.00	0.00
049	* Includes deposits with WRD / against BG in r/o finance lease	0.00	0.00
050	Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
052	Advances to related parties include:	0.00	0.00
053	i)Key management personel	0.00	0.00
054	ii)Subsidiary companies	0.00	0.00
055	iii)Joint Venture companies	0.00	0.00
056	Contractors	0.00	0.00
057	Others	0.00	0.00
058		0.00	0.00
059	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
060		0.00	0.00
061		0.00	0.00
062	Related Party (Adv)- Employee	0.00	0.00
063	Related Party (Adv)- Subsidiaries	0.00	0.00
064	Related Party (Adv)- Joint Venture	1,407,513.00	1,407,513.00
065		0.00	0.00
066		0.00	0.00
067	Total	1,407,513.00	1,407,513.00
068		0.00	0.00

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	A manaratia company	
NO. 20 TO THE FSREGULATORY DEFERRAL A	( Amount in ₹ )	
As at	31.03.2022	31.03.2021
On account of Exchange Differences	-138,738,090.16	-23,349,137.66
On account of employee benefit exp	254,610,387.33	381,915,581.00
Regulatory deferred account - deferred	0.00	0.00
Deferred asset for ash transportation	1,035,424,777.02	312,520,012.83
Deferred asset for Arbitration Award	0.00	0.00
Total	1,151,297,074.19	671,086,456.17
	As at On account of Exchange Differences On account of employee benefit exp Regulatory deferred account - deferred Deferred asset for ash transportation Deferred asset for Arbitration Award	On account of Exchange Differences -138,738,090.16 On account of employee benefit exp 254,610,387.33 Regulatory deferred account - deferred 0.00 Deferred asset for ash transportation 1,035,424,777.02 Deferred asset for Arbitration Award 0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

( Amount in ₹)

	<u> </u>		( Amount in x )
	As at	31.03.2022	31.03.2021
001	SHARE CAPITAL	0.00	0.00
002	Equity Share Capital	0.00	0.00
003	Authorised	0.00	0.00
004	10,000,000,000 equity shares of Rs.10/- each (Previous year 10,000,000,000 eq shares of Rs.10/- each)	0.00	0.00
005	Issued,Subscribed and fully Paid-up	0.00	0.00
006	9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 9,894,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		0.00	0.00
800	Total	0.00	0.00
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holding	0.00	0.00
015	<ul> <li>Life Insurance Corporation of India/ICICI</li> <li>Prudential Mutual Fund</li> </ul>	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

( Amount in ₹)

NOT	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	RESERVE AND SURPLUS	0.00	0.00
002		0.00	0.00
003	Capital Reserve	0.00	0.00
004	As per last financial statements	0.00	0.00
006	Add: Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
800	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	SUB-TOTAL	0.00	0.00
011		0.00	0.00
017		0.00	0.00
018	SECURITIES PREMIUM ACCOUNT	0.00	0.00
019	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
020	ADD: ADDITIONS DURING THE YEAR/PERIOD	0.00	0.00
021	LESS: ADJUSTMENTS DURING THE YEAR/PERIOD	0.00	0.00
022	SUB-TOTAL	0.00	0.00
023	BONDS REDEMPTION RESERVE	0.00	0.00
024	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
025	ADD: TRANSFER FROM SURPLUS	0.00	0.00
026	LESS: TRANSFER TO SURPLUS ON REDEMPTION	0.00	0.00
027	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
028	SUB-TOTAL	0.00	0.00
029	CAPITAL REDEMPTION RESERVE	0.00	0.00
030	As per last financial statements	0.00	0.00
031	Add: Transfer from Surplus	0.00	0.00
032	Less: Transfer to surplus on redemption	0.00	0.00
033	Less: Adjustments during the year/ period	0.00	0.00
034	Sub-Total	0.00	0.00
035	Share Application money pending Allotment	0.00	0.00
036	As per last financial statements	0.00	0.00
037	Add: Addition during the year	0.00	0.00
038	Less: Utlised for allotment during the year	0.00	0.00
039	Less: Adjustments during the year/ period	0.00	0.00
040	SUB-TOTAL	0.00	0.00
046	FLY-ASH UTILISATION RESERVE FUND	0.00	0.00
047	AS PER LAST FINANCIAL STATEMENTS	0.00	8,220,860.44
048	TRANSFERRED TO CC	0.00	0.00
049	ADD:TRANSFER FROM REVENUE FROM OPERATIONS	0.00	15,712,224.90
050	ADD:TRANSFER FROM OTHER INCOME	0.00	0.00
051	LESS: UTILISED DURING THE YEAR	0.00	0.00
052	TANGIBLE ASSETS	0.00	0.00
053	EMPLOYEE BENEFIT EXPENSES	0.00	0.00
054	GENERATION, ADMN. AND OTHER EXPENSES	0.00	23,933,085.34

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

( Amount in ₹)

NOT	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
055	TAX EXPENSES	0.00	0.00
056	SUB-TOTAL	0.00	0.00
057	Self Insurance Reserve	0.00	0.00
058	As per last financial statements	0.00	0.00
059	Add: Addition during the year	0.00	0.00
060	Less: Utlised for allotment during the year	0.00	0.00
061	Less: Adjustments during the year/ period	0.00	0.00
062	SUB-TOTAL	0.00	0.00
063	SPECIAL ALLOWANCE RESERVE FUND	0.00	0.00
064	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
065	ADD: ADDITION DURING THE YEAR	0.00	0.00
066	LESS: UTLISED FOR ALLOTMENT DURING THE YEAR	0.00	0.00
067	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
068	SUB-TOTAL	0.00	0.00
069	CORPORATE SOCIAL RESPONSIBILITY (CSR) RESERVE	0.00	0.00
070	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
071	ADD : TRANSFER FROM SURPLUS	0.00	0.00
072	LESS:-WRITE BACK DURING THE YEAR	0.00	0.00
073	SUB-TOTAL	0.00	0.00
074	GENERAL RESERVE	0.00	0.00
075	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
076	ADD: TRANSFER FROM SURPLUS	0.00	0.00
077	LESS: TRANSFER TO SURPLUS	0.00	0.00
078	LESS: WRITE BACK DURING THE YEAR /PERIOD	0.00	0.00
079	LESS: ADJUSTMENTS DURING THE YEAR /PERIOD	0.00	0.00
080	SUB-TOTAL	0.00	0.00
081		0.00	0.00
082	RETAINED EARNINGS	0.00	0.00
083	AS PER LAST FINANCIAL STATEMENTS	166,604,865,582.08	156,537,113,839.05
084	ADD(LESS):-CHANGES IN ACCOUNTING POLICY / PRIOR PERIOD ERRORS	0.00	0.00
085	ADD(LESS):-PROFIT (LOSS) AFTER TAX FOR THE YEAR FROM STATEMENT OF PROFIT & LOSS	11,540,965,874.06	10,067,751,743.03
087	ADD: WRITE BACK FROM BOND REDEMPTION RESERVE	0.00	0.00
880	ADD: WRITE BACK FROM CAPITAL RESERVE	0.00	0.00
089	ADD: WRITE BACK FROM FOREIGN PROJECT RESERVE	0.00	0.00
090	ADD: WRITE BACK FROM CSR RESERVE	0.00	0.00
091	ADD: WRITE BACK FROM GENERAL RESERVE	0.00	0.00
093	LESS: TRANSFER TO BONDS REDEMPTION RESERVE	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

( Amount in ₹)

NOI	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in $\langle$ )
	As at	31.03.2022	31.03.2021
094	LESS: TRANSFER TO SPECIAL ALLOWANCE RESERVE FUND	0.00	0.00
095	LESS: TRANSFER TO FOREIGN PROJECT RESERVE	0.00	0.00
096	LESS:TRANSFER TO CAPITAL RESERVE	0.00	0.00
097	LESS:TRANSFER TO CSR RESERVE	0.00	0.00
098	LESS:TRANSFER TO GENERAL RESERVE	0.00	0.00
099	LESS:INTERIM DIVIDEND PAID	0.00	0.00
100	LESS:TAX ON INTERIM DIVIDEND PAID	0.00	0.00
101	LESS:FINAL DIVIDEND PAID	0.00	0.00
102	LESS:TAX ON FINAL DIVIDEND PAID	0.00	0.00
103	LESS: ISSUE OF BONUS DEBENTURE	0.00	0.00
104	LESS: TAX ON ISSUE OF BONUS DEBENTURE _	0.00	0.00
105	SUB-TOTAL	178,145,831,456.14	166,604,865,582.08
110		0.00	0.00
111	REMEASUREMENT OF DEFINED BENEFIT PLANS	0.00	0.00
112	AS PER LAST FINANCIAL STATEMENTS	-196,870,608.91	-172,809,279.53
113	ADD/(LESS):- ACTUARIAL GAINS/LOSS THROUGH OCI	-9,725,634.75	-24,061,329.38
114	SUB-TOTAL	-206,596,243.66	-196,870,608.91
115		0.00	0.00
116	FVTOCI Reserve	0.00	0.00
117	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
118	ADD(LESS):-NET GAIN/LOSS OF EQUITY INSTRUMENTS THROUGH OCI	0.00	0.00
119	Sub-Total	0.00	0.00
120		0.00	0.00
121	Total Other equity	177,939,235,212.48	166,407,994,973.17
122		0.00	0.00
123		0.00	0.00
124		0.00	0.00
125		0.00	0.00
126		0.00	0.00
127		0.00	0.00
128		0.00	0.00

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As at 31.03.2022 31.03.2021

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	LONG TERM BORROWINGS	0.00	0.00
002	Bonds	0.00	0.00
003	Secured	0.00	0.00
004	7.37 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
800	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)	0.00	0.00
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

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( Amount in ₹)

NOTI	E NO. 23 TO THE FS-NCL-BORROWINGS		(Amount in ₹)
	As at	31.03.2022	31.03.2021
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)		
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)		
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025	0.00	0.00
	(Fifty Seventh Issue - Private Placement)		
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/-each redeemable at par in full on 22nd September 2024 (53rd Issue - private placement).	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

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( Amount in ₹ )

NOI	ENO. 23 TO THE FS-NCL	-BURKUWINGS		( Amount in ? )
	As at		31.03.2022	31.03.2021
	par in full on 4th Marc (Fifty First Issue A - Pri			
028	non-convertible redee	redeemable at par in 2023 (	0.00	0.00
029	non-convertible redee	redeemable at par in 2023 (	0.00	0.00
030	of ₹10,00,000/- each with transferable redeemal principal parts (STRPP the end of 11th year a annual installments the of 15th year respective	emable taxable bonds  In five equal separately ble In redeemable at par at and in the nereafter upto the endular ely Indian May 2023 and ending ty fourth	0.00	0.00
031	of	emable taxable bonds deemable at par in full	0.00	0.00
032	of	emable taxable bonds leemable at par in full ty	0.00	0.00
033	redeemable at par in t annual installments of Rs. 5.00 at the end of year, 9th year and 10 2023, 25th March 202	ures of Rs. 12.50 each three Rs. 2.50, Rs. 5.00 and 8th th year on 25th March 4 and spectively (Fifty Fourth	0.00	0.00
034	8.73% Secured	non-cumulative	0.00	0.00
			$\cap$	

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अपर मस्तप्रचन्यक (वाणित्यक) Add. General Manager (Commercial) न दी वी बी लिपिटेंग/NTPC LIMITED



( Amount in ₹)

	As at	31.03.2022	31.03.2021
	non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 07th March 2023 ( Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00
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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	₹ 10,00,000/- each redeemable at par in full		

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( Amount in ₹)

1401	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in $\langle$ )
	As at	31.03.2022	31.03.2021
	on 12th January 2019 (Nineteenth issue - private placement)II		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)III	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)VII	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)VII	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)I	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)III	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

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मर ग्रहाप्रयन्थक (चाणिक्वक) I. General Manager (Commercial) । वी वी लिन्टिंग/MIPC LIMITED



( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ( )
	As at	31.03.2022	31.03.2021
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)III		
056	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)III	0.00	0.00
057	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)III	0.00	0.00
058	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)III	0.00	0.00
059	8.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00
		( N	

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( Amount in ₹)

NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
	year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th December 2016 and ending on 15th December 2030 (Thirty sixth issue - private placement)III		
060	8.785% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th September 2016 and ending on 15th September 2030 (Thirty fifth issue - private placement)III	0.00	0.00
061	8.71% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 10th June 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)III	0.00	0.00
062	8.8493% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 25th March 2016 and ending on 25th March 2030 (Thirty second issue - private placement)III	0.00	0.00
063	9.37% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty fifth issue -	0.00	0.00

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( Amount in ₹)

_	As at	31.03.2022	31.03.2021
	private placement)III	0110012022	01100.2021
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)V	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

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( Amount in ₹)

NOT	E NO. 23 TO THE FS-NCL-BURKUWINGS		( Amount in $\langle \cdot \rangle$
	As at	31.03.2022	31.03.2021
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
075		0.00	0.00
076		0.00	0.00
077	Sub Total	0.00	0.00
078	Unsecured	0.00	0.00
079	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth Issue - Private Placement)	0.00	0.00
080	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First Issue - Private Placement)	0.00	0.00
081	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second Issue - Private Placement)	0.00	0.00
082	6.43% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in	0.00	0.00
	- 1, 07 04 0000 40, 40, 50	>A_	

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( Amount in ₹)

NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		(Amount in ₹)
	As at	31.03.2022	31.03.2021
	full on 27 January 2031 (Seventy Third Issue - Private Placement)		
083	6.87% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21 April 2036 (Seventy Fourth Issue - Private Placement)	0.00	0.00
084	6.69% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 13 September 2031 (Seventy Fifth Issue - Private Placement)	0.00	0.00
085	6.74% Unsecured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 14 April 2032 (Seventy Sixth Issue - Private Placement)	0.00	0.00
086		0.00	0.00
087		0.00	0.00
880		0.00	0.00
089	Sub-total	0.00	0.00
090	Total	0.00	0.00
091	Foreign Currency Notes-Unsecured	0.00	0.00
092	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
093	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
094	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
095	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
096	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
097	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
098	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
099	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00
100	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
101		0.00	0.00
102		0.00	0.00
103		0.00	0.00
104	Sub Total	0.00	0.00
105	Term Loans	0.00	0.00
106	From Banks	0.00	0.00
107	Secured	0.00	0.00
108	Rupee Loans	0.00	0.00

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( Amount in ₹)

NOTE NO. 23 TO THE	FS-NCL-BORROWINGS		( Amount in ₹ )
As at		31.03.2022	31.03.2021
109 Unsecured		0.00	0.00
110 Foreign Currency	Loans	0.00	0.00
111 Rupee Loans		0.00	0.00
112 From Others		0.00	0.00
113 Secured		0.00	0.00
114 Rupee Loans		0.00	0.00
115 Foreign Currency	loans (guaranteed by GOI)	0.00	0.00
116 Unsecured		0.00	0.00
117 Foreign Currency	loans (guaranteed by GOI)	0.00	0.00
118 Other Foreign cu	rrency loans	0.00	0.00
120 Rupee Loans		0.00	0.00
121 Deposits		0.00	0.00
122 Unsecured		0.00	0.00
123 Fixed Deposits		0.00	0.00
124 Others		0.00	0.00
125 Unsecured		0.00	0.00
126 Bonds Applicatio	n Money Pending Allotment	0.00	0.00
127 Sub-total	<u></u>	0.00	0.00
128 <b>Total</b>		0.00	0.00
129 Less:- Interst acc borrowings	rued but not due on secured	0.00	0.00
130 Less:- Interst acc	rued but not due on unsecured	0.00	0.00
131 Less:- Current m	aturities of long term borrowings	0.00	0.00
132 Bonds-Secured		0.00	0.00
133 Fixed Rate Notes	3	0.00	0.00
135 Foreign currency	loans from Banks- unsecured	0.00	0.00
136 Rupee loans from	n banks- Secured	0.00	0.00
137 Rupee loans fron	n banks- unsecured	0.00	0.00
138 Rupee Term loar	from Others - Secured	0.00	0.00
139 Foreign currency (Guaranteed by 0	loans from others- unsecured GOI)	0.00	0.00
140 Other foreign cur unsecured	rency loans from others-	0.00	0.00
141 Rupee loans fron	n others- unsecured	0.00	0.00
142		0.00	0.00
143		0.00	0.00
144		0.00	0.00
145		0.00	0.00
146		0.00	0.00
147		0.00	0.00
148		0.00	0.00
149		0.00	0.00
150		0.00	0.00
151		0.00	0.00
200 Total		0.00	0.00

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( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Non-current financial liabilities - Lease liabilities	0.00	0.00
002	Lease liabilities	0.00	0.00
003	Long term maturities of Finance Lease Liabilities (Secured) IX	0.00	0.00
004	Long term maturities of Finance Lease Liabilites (Unsecured) X	0.00	0.00
005	Sub-Total	0.00	0.00
006	Less: current maturities of lease liabilities	0.00	0.00
007	Finance Lease obligations - secured	0.00	0.00
800	Finance Lease obligations - unsecured	0.00	0.00
009	Sub-Total	0.00	0.00
010	Total	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES

( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	TRADE PAYABLES(NON CURRENT)	0.00	0.00
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	7,830,370.14	16,336,269.21
004	- Others	11,108,650.81	6,373,476.89
005		0.00	0.00
006	Total	18,939,020.95	22,709,746.10

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES

( Amount in ₹)

_			, , ,
	As at	31.03.2022	31.03.2021
001	OTHER FINANCIAL LIABILITIES (NON-CURRENT)	0.00	0.00
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	3,022,575.28	100,024.63
004	- Others	210,903,859.44	681,641,329.62
005	Others	0.00	0.00
006	Deposits from contractors and others	11,000.00	0.00
007		0.00	0.00
800		0.00	0.00
009	Total	213,937,434.72	681,741,354.25

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( Amount in ₹)

	- 1101 20 10 1112 10 NO2 1 NO 11010 NO		(7tilloulle iii v)
	As at	31.03.2022	31.03.2021
001	LONG TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
006		0.00	0.00
007	Others	0.00	0.00
800	i) Mine Closure Provision	0.00	0.00
009	Opening Balance	0.00	0.00
010	Additions during the year	0.00	0.00
011	Amounts adjusted during the year	0.00	0.00
012	Amounts reversed during the year	0.00	0.00
013	Closing Balance	0.00	0.00
014		0.00	0.00
015	ii) Stripping Activity Adjustments	0.00	0.00
016	Opening Balance	0.00	0.00
017	Additions during the year	0.00	0.00
018	Amounts adjusted during the year	0.00	0.00
019	Amounts reversed during the year	0.00	0.00
020	Closing Balance	0.00	0.00
021		0.00	0.00
024		0.00	0.00
025	TOTAL	0.00	0.00
021 024		0.00 0.00	

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NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET)

( Amount in ₹) **Open Balance** Addition **Closing Balance** As at on 01.04.2021 on 31.03.2022 001 **DEFERRED TAX LIABILITIES (NET)** 002 Difference of book depreciation and 0.00 0.00 0.00 tax depreciation 003 Less: Deferred tax assets 004 Provisions & Other disallowances for 0.00 0.00 0.00 tax purposes 005 **Unabsorbed Depreciation** 0.00 0.00 0.00 006 Disallowances u/s 43B of the Income 0.00 0.00 0.00 Tax Act, 1961 0.00 0.00 0.00 007 Others 800 **Opening Balance** 0.00 0.00 0.00 0.00 0.00 0.00 009 Additions during the year 0.00 0.00 0.00 010 Amounts adjusted during the year 0.00 011 Amounts reversed during the year 0.00 0.00 012 0.00 Closing Balance 0.00 0.00 013 MAT credit entitlement 0.00 0.00 0.00 014 Total 0.00 0.00 0.00 015 Total 0.00 0.00 0.00 016 Breakup of deferred tax assets 0.00 0.00 0.00 0.00 017 Provision 0.00 0.00 0.00 0.00 018 Statutory dues 0.00 019 Leave encashment 0.00 0.00 0.00 020 Others 0.00 0.00 0.00

0.00

0.00

0.00

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0.00

0.00



# RIHAND SUPER THERMAL POWER STATION NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES

( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
005	TOTAL	0.00	0.00

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( Amount in ₹)

	NO. 23 TO THE TO BE BOTTINGS		(Amount in V)
<u>.</u>	As at	31.03.2022	31.03.2021
001	Short Term Borrowings	0.00	0.00
002 I	Loans repayable on demand	0.00	0.00
003	From Banks	0.00	0.00
004	Secured	0.00	0.00
005	Cash Credit	0.00	0.00
006	Unsecured	0.00	0.00
007	Cash Credit	0.00	0.00
800	Other loans-unsecured	0.00	0.00
009	Commercial Papers	0.00	0.00
	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	Sub-Total	0.00	0.00
012	Current maturity of long term borrowings	0.00	0.00
013 I	Bonds-Secured	0.00	0.00
014 I	Foreign Currency Fixed Rate Notes	0.00	0.00
015 I	From Banks	0.00	0.00
016	Secured	0.00	0.00
017 I	Rupee Term Loan	0.00	0.00
018 I	Foreign currency loans	0.00	0.00
019	Unsecured	0.00	0.00
020 I	Foreign currency loans	0.00	0.00
021 I	Rupee term loans	0.00	0.00
022 I	From Others	0.00	0.00
023	Secured	0.00	0.00
024 I	Rupee Term Loan	0.00	0.00
025	Unsecured	0.00	0.00
	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
027	Other foreign currency loans	0.00	0.00
028 I	Rupee term loans	0.00	0.00
029 I	Fixed deposits	0.00	0.00
031	Sub Total	0.00	0.00
032	TOTAL	0.00	0.00

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( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Current financial liabilities - Lease liabilities	0.00	0.00
002	Current maturity of finance lease obligations (secured)	0.00	0.00
003	Current maturity of finance lease obligations (unsecured)	0.00	0.00
004	Total	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

( Amount in ₹)

NOT	E NO. 30 TO THE FS-CL-TRADE PAYABLES		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	TRADE PAYABLES	0.00	0.00
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	220,046,789.16	227,641,821.80
004	- Others	3,104,879,539.52	1,688,677,134.68
005		0.00	0.00
006	Total	3,324,926,328.68	1,916,318,956.48
007		0.00	0.00
172	Trade payable	0.00	0.00
173	MSME	0.00	0.00
174	Unbilled	75,353,748.01	87,950,700.89
175	Not due	111,869,021.20	117,462,296.91
176	Due	32,824,020.00	22,228,824.00
177	Disputed	0.00	0.00
178	Undisputed	32,824,020.00	22,228,824.00
179		0.00	0.00
180	Sub-total (A)	220,046,789.21	227,641,821.80
181		0.00	0.00
182	Others	0.00	0.00
183	Unbilled	512,665,789.10	375,565,004.14
184	Not due	210,843,363.50	88,840,101.54
185	Due	2,381,370,387.00	1,224,272,029.00
186	Disputed	0.00	0.00
187	Undisputed	2,381,370,387.00	1,224,272,029.00
188		0.00	0.00
189	Sub-total (B)	3,104,879,539.60	1,688,677,134.68
190	- Call 30301. (E)	0.00	0.00
191	Total	3,324,926,328.81	1,916,318,956.48
192		0.00	0.00
193	Ageing	0.00	0.00
194	MSME	0.00	0.00
195	Disputed	0.00	0.00
196	Less than 1 year	0.00	0.00
197	1-2 years	0.00	0.00
198	2-3 years	0.00	0.00
199	More than 3 years	0.00	0.00
200	Sub Total (I)	0.00	0.00
201	oub rotal (i)	0.00	0.00
202	Undisputed	0.00	0.00
202	·	32,824,020.00	22,228,824.00
	Less than 1 year		
204	1-2 years	0.00	0.00
205	2-3 years	0.00	0.00
206	More than 3 years	0.00	0.00
207	Sub Total (II)	32,824,020.00	22,228,824.00
208		0.00	0.00
209	Total MSME (III)	32,824,020.00	22,228,824.00
210		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

( Amount in ₹)

			(11111111111111111111111111111111111111
	As at	31.03.2022	31.03.2021
211	Others	0.00	0.00
212	Disputed	0.00	0.00
213	Less than 1 year	0.00	0.00
214	1-2 years	0.00	0.00
215	2-3 years	0.00	0.00
216	More than 3 years	0.00	0.00
217	Sub Total (IV)	0.00	0.00
218		0.00	0.00
219	Undisputed	0.00	0.00
220	Less than 1 year	1,676,015,685.00	730,603,504.30
221	1-2 years	85,164,135.00	430,819,121.70
222	2-3 years	193,027,381.00	1,186,607.00
223	More than 3 years	427,163,186.00	61,662,796.00
224	Sub Total (V)	2,381,370,387.00	1,224,272,029.00
225		0.00	0.00
226	Total Others (VI)	2,381,370,387.00	1,224,272,029.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	OTHER FINANCIAL LIABILITIES (CURRENT)	0.00	0.00
020		0.00	0.00
021	Interest accrued but not due on secured borrowings	0.00	0.00
022	Interest accrued but not due on unsecured borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	Payable for Capital Expenditure	0.00	0.00
033	- Micro & Small Enterprises	113,167,223.51	114,779,286.53
034	- Others	3,485,636,092.15	1,769,755,357.39
035	Others Payables	0.00	0.00
036	Deposits from contractors and others	85,251,588.78	53,078,458.78
037	Gratuity Obligations	0.00	0.00
038	Payable to employees	19,782,024.00	10,896,978.39
039	Payable to holding company	0.00	0.00
040	Retention on A/c BG encashment (Solar)	0.00	0.00
041	Payable to Solar Payment Security Account	0.00	0.00
042	Others **	96,581,271.22	140,861,301.14
043	Unspent CSR balance on ongoing Approved CSR projects	0.00	0.00
044	Total	3,800,418,199.66	2,089,371,382.23
045	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
046	** Include Payable to Hospital and other payable.	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES

( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	OTHER CURRENT LIABILITIES	0.00	0.00
002	Advances from customers and others	66,809,931.25	35,638,788.25
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	83,997,873.09	59,989,614.61
005	Deposits from contractors and others	0.00	0.00
006	Government grants	0.00	0.00
007	Others	0.00	0.00
800	Total	150,807,804.34	95,628,402.86

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( Amount in ₹)

NUI	E NO. 33 TO THE FS-CL-PROVISIONS	04.00.0000	( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	SHORT TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
028	Provisions for Obligations Incidental to Land Acquisition	0.00	0.00
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	Closing Balance	0.00	0.00
035	Provision for Tariff Adjustment	0.00	0.00
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	Closing Balance	0.00	0.00
042	Provision for shortage in Fixed Assets Pending Investigation & Others	0.00	0.00
043	Opening balance	0.00	633,857.99
044	Additions during the year	0.00	0.00
045	Amounts adjusted during the year	0.00	54,258.29
046	Amounts reversed during the year	0.00	579,599.70
047	Closing Balance	0.00	0.00
048	Provision for Arbitration	0.00	0.00
049	Opening balance	8,265,312.00	7,846,960.00
050	Additions during the year	418,352.00	418,352.00
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	Closing Balance	8,683,664.00	8,265,312.00
054	Others	0.00	0.00
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	Closing Balance	0.00	0.00
102		0.00	0.00
103	Total	8,683,664.00	8,265,312.00
			· · · · · · · · · · · · · · · · · · ·

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 34 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

( Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Current liabilities - current tax liabilities (net)	0.00	0.00
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
006	Closing Balance	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 35 TO THE FS--DEFERRED REVENUE

( Amount in ₹)

31.03.2022	31.03.2021
0.00	0.00
0.00	0.00
1,521,099,000.00	1,550,313,000.00
0.00	0.00
1,521,099,000.00	1,550,313,000.00
	0.00 0.00 1,521,099,000.00 0.00

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### RIHAND SUPER THERMAL POWER STATION

NOI	NOTE NO. 36 TO THE FSREGULATORY DEFERRAL ACCOUNT CREDIT BALANCES			
	As at	31.03.2022	31.03.2021	
001	Regulatory deferral account credit balances	0.00	0.00	
002	Eychange Differences	0.00	0.00	

 001 Regulatory deferral account credit balances
 0.00
 0.00

 002 Exchange Differences
 0.00
 0.00

 003
 0.00
 0.00

 004 Total
 0.00
 0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 37 TO THE FS--REVENUE FROM OPERATIONS

( Amount in ₹)

NOI	E NO. 37 TO THE FSREVENUE FROM OPERATIONS		( Amount in < )
	For the Year ended	31.03.2022	31.03.2021
001	REVENUE FROM OPERATIONS	0.00	0.00
002	Sales	0.00	0.00
003	Energy Sales (including Electricity Duty)	53,443,276,351.00	50,965,331,245.83
004	Less: Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add: Exchange fluctuation receivable from customers	-1,191,045,000.00	0.00
007	Sale of energy through trading	0.00	0.00
800	Commission (NVVN)	0.00	0.00
009	Sub total	52,252,231,351.00	50,965,331,245.83
010	Less: Rebate to customers	244,496,889.89	792,896,443.92
011	Energy Sales (Total)	52,007,734,461.11	50,172,434,801.91
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	Sub-total	0.00	0.00
018	Total - Sales	52,007,734,461.11	50,172,434,801.91
019	Sale of fly ash/ash products	0.00	15,712,224.90
020	Less: Transferred to fly ash utilisation reserve fund	0.00	-15,712,224.90
021	Sub-total	0.00	0.00
022	Other Operating Income	0.00	0.00
023	Interest from customers	107,849,212.00	0.00
024	Energy Internally Consumed *	31,975,932.00	32,244,116.00
025	Interest income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	0.00	0.00
029	Income from E-Mobility Business & others	0.00	0.00
030	Others	0.00	0.00
031	Total	52,147,559,605.11	50,204,678,917.91
040	<ul> <li>Valued at variable cost of generation and corresponding amount included in power charges ( Note No. 42)</li> </ul>	0.00	0.00
041	Excise duty on sale of flyash,cenospere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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### **RIHAND SUPER THERMAL POWER STATION**

NOTE NO. 38 TO THE FS--OTHER INCOME

( Amount in ₹)

NOT	E NO. 38 TO THE FSOTHER INCOME		( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
001	OTHER INCOME	0.00	0.00
002	Interest from	0.00	0.00
004	Financial assets at amortised cost	0.00	0.00
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007		0.00	0.00
800	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortziation of premium	0.00	0.00
010	Sub Total	0.00	0.00
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	15,984,260.52	15,321,469.09
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	915,881.70	1,013,678.30
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	Sub Total	0.00	0.00
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	Sub Total	0.00	0.00
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	1,179,995.49	0.00
031		0.00	0.00
032	Dividend from	0.00	0.00
033	Longterm investments in	0.00	0.00
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	Current Investments in	0.00	0.00
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
041	Lease Rent # Ash Brick Plant	0.00	0.00
042	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	0.00	0.00
044	Profit on disposal of PPE	3,591.10	20,849.70
045	Profit on redemption of GOI securities	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 38 TO THE FS--OTHER INCOME

( Amount in ₹ )

NOT	E NO. 38 TO THE FSOTHER INCOME		(Amount in ₹)
	For the Year ended	31.03.2022	31.03.2021
046	Net gain on sale of investments	0.00	0.00
047	Surcharge received from customers	890,083,371.00	2,336,727,851.00
048	Hire charges for equipment	0.00	151,491.00
049	Gain on option contract / Discount on F.ExchContract	27,567,170.36	0.00
050	Provision written back-others	8,667,761.36	4,648,573.24
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less: Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less: Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	257,016,760.40	399,678,154.90
057	Total	1,201,418,791.93	2,757,562,067.23
058	Less:Transferred to Development of Coal Mines- Note 43A	0.00	0.00
059	Less:Transferred to Expenditure during Construction period (net)- Note 43	96,735.00	73,452.78
060	Less: Others	0.00	0.00
062	Total	1,201,322,056.93	2,757,488,614.45
063		0.00	0.00
064	Details of Miscellaneous Income	0.00	0.00
065	Vehicle Hire Charges.	118,000.00	100,000.00
066	Sale of by products & residuals	0.00	0.00
067	Township recoveries(exl. Hospital Recoveries).	22,530,387.46	26,531,613.68
068	Depreciation written back	0.00	0.00
069	Sale of Scrap.	118,949,651.93	146,790,506.41
070	Receipt under loss of profit policy.	0.00	0.00
071	Receipts under MBD/Fire Policy.	0.00	105,876,803.99
072	Management development programme.	0.00	0.00
073	Management Fee - Misc (NVVN)	0.00	0.00
074	Others	115,418,721.01	120,379,230.82
075		0.00	0.00
076	Total (Miscellaneous Income)	257,016,760.40	399,678,154.90
077		0.00	0.00
078	Details of Provision written back others	0.00	0.00
079	Doubtful debts	0.00	0.00
080	Doubtful Loans, Advances and Claims	0.00	0.00
081	Doubtful Construction Advances	0.00	0.00
082	Shortage in Construction Stores	548,546.87	3,069,811.99
083	Shortage in Stores	6,867,724.99	999,161.55
084	Obsolescence in Stores	1,251,489.50	0.00
085	Unserviceable capital works	0.00	0.00
086	Other Obligation including Arbitration	0.00	0.00
087	Shortage in Fixed Assets	0.00	579,599.70

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### **RIHAND SUPER THERMAL POWER STATION** NOTE NO. 38 TO THE FS--OTHER INCOME

31.03.2021 For the Year ended 31.03.2022

088 Diminution in value of Investment 0.00 0.00

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### RIHAND SUPER THERMAL POWER STATION

NOTE NO. 38A TO THE FS--FUEL COST

( Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
001	FUEL COST	0.00	0.00
002	Coal	0.00	0.00
003	Captive	0.00	0.00
004	Other than captive	30,357,469,404.43	30,979,828,493.35
005	Gas	0.00	0.00
006	Naptha	0.00	0.00
007	Oil	286,119,163.76	247,723,305.71
800	Biomass Pellets	0.00	0.00
009	Total	30,643,588,568.19	31,227,551,799.06
010		0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION

### NOTE NO. 39 TO THE FS--EMPLOYEE BENEFITS EXPENSE

( Amount in ₹)

IVOI	L NO. 39 TO THE TO-LIMITED TEE BENEFITS EXPENSE		( Amount in \ )
	For the Year ended	31.03.2022	31.03.2021
001	EMPLOYEE BENEFITS EXPENSE	0.00	0.00
002	Salaries and wages	1,545,790,249.09	1,515,897,759.31
003	Contribution to provident and other funds	204,663,720.58	192,912,222.56
004	Unwinding of deferred payroll expense	10,256,372.76	10,267,426.36
005	Staff welfare expenses	188,061,328.44	170,031,632.85
006	Less: Expenses transferred to Consultancy group	0.00	0.00
007		0.00	0.00
800	Sub Total	1,948,771,670.87	1,889,109,041.08
009	Less: Employee benefits expense allocated to fuel inventory	112,502,448.72	121,440,512.65
)10	Less: Transferred/Allocated to development of coal mines	0.00	0.00
)11	Less: Others	0.00	0.00
)12	Less: Transferred to fly ash utilisation reserve fund	0.00	0.00
)13	Less: Transferred to CSR Expenses	0.00	0.00
)14	Reimbursements for employees on secondment	3,377,875.77	2,735,946.17
15	Less: Transferred to expenditure during construction period (net)- Note 43	24,926,059.94	19,394,829.87
)16	TOTAL	1,807,965,286.44	1,745,537,752.39
)17	Managerial Remuneration paid/ payable to Directors included above (except for Directors fee which is included in Note 42)	0.00	0.00
018	Salaries and wages	0.00	0.00
019	Contribution to provident and other funds	0.00	0.00
020	Staff welfare expenses	0.00	0.00
)21	Directors fee	0.00	0.00
)22		0.00	0.00
023		0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 40 TO THE FS--FINANCE COSTS

( Amount in ₹)

NOI	E NO. 40 TO THE FSFINANCE COSTS		( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
001	FINANCE COSTS	0.00	0.00
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	710,804,516.35	585,552,890.58
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	19,995,984.52	19,316,822.83
006	Rupee term loans	438,724,318.00	690,539,220.00
007	Public deposits	0.00	0.00
800	Foreign currency bonds/notes	316,443,493.96	642,399,406.03
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	79,228,121.55	13,871,577.85
011	Commercial Papers	0.00	0.00
012	Sub Total	1,565,196,434.38	1,951,679,917.29
013	Interest on non financial items	0.00	0.00
014	Other Borrowing Costs	0.00	0.00
015	Bonds servicing & public deposit exp.	863,783.14	717,948.54
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	1,126,265.00	0.00
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	Sub Total (Other Borrowing cost)	1,990,048.14	717,948.54
027		0.00	0.00
028	Exchange differences regarded as an adjustment to borrowing costs	-2,773,694.67	-16,523.48
029	Sub Total	1,564,412,787.85	1,952,381,342.35
030	Less: Transferred to Expenditure during construction period (net) - Note 43	98,307,037.97	22,905,000.49
031	Less: Transferred to development of coal mines- Note 43A	0.00	0.00
032		0.00	0.00
033	Total	1,466,105,749.88	1,929,476,341.86

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4,070,986,728.27

#### **RIHAND SUPER THERMAL POWER STATION**

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Total

#### NOTE NO. 41 TO THE FS--DEPRECIATION AND AMORTIZATION EXPENSES ( Amount in ₹) For the Year ended 31.03.2022 31.03.2021 001 Depreciation and amortization expenses 0.00 0.00 002 On property, plant and equipment- Note 2 4,601,404,034.44 4,722,518,393.06 003 On intangible assets- Note 4 0.00 4,317.78 004 Sub-total 4,722,518,393.06 4,601,408,352.22 005 Less: 0.00 0.00 006 Allocated to fuel inventory 374,595,518.15 361,624,623.95 007 Transferred to Expenditure during Construction 0.00 0.00 Period (net)- Note 43 800 0.00 0.00 009 Transferred/Allocated to development of coal 0.00 0.00 010 Adjustment with deferred revenue from deferred 165,193,000.00 168,797,000.00 foreign currency fluctuation 011 0.00 0.00

4,182,729,874.91

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### RIHAND SUPER THERMAL POWER STATION

NOTE NO. 42 TO THE FS--OTHER EXPENSE (Amount in ₹)

NOI	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
001	OTHER EXPENSES	0.00	0.00
002	Power charges	31,976,053.83	32,244,116.00
003	Less: Recovered from contractors & employees	18,059,198.89	10,218,976.19
004	Sub-Total(Power Charges)	13,916,854.94	22,025,139.81
005	Water charges	139,871,225.00	139,871,225.00
006	Stores consumed	52,633,011.12	30,362,577.69
007	Rent	0.00	0.00
800	Less:Recoveries	0.00	0.00
009	Sub-Total (Rent)	0.00	0.00
010	Cost of captive coal produced	0.00	0.00
011	Repairs & maintenance	0.00	0.00
012	Buildings	129,376,643.93	157,598,147.58
013	Plant & machinery	0.00	0.00
014	Power stations	1,746,499,355.61	2,012,457,618.12
015	Construction equipment	0.00	0.00
016	Others		
		106,882,579.98	71,233,169.46
017	Sub-total (Repairs & maintenance)	1,982,758,579.52	2,241,288,935.16
019	Load Dispatch Center Charges	25,361,760.00	16,378,065.00
021	Insurance	141,466,994.50	135,670,380.27
022	Interest to beneficiaries	0.00	0.00
023	Rates and taxes	14,847,960.99	14,719,674.88
024	Water cess & environment protection cess	0.00	0.00
025	Training & recruitment expenses	688,607.70	2,517,189.00
026	Less: Receipts	0.00	0.00
027	Sub-total (Training and recruitment expenses)	688,607.70	2,517,189.00
028	Communication expenses	21,264,678.98	20,286,959.05
029	Inland Travel	66,788,667.74	60,029,239.63
030	Foreign Travel	0.00	0.00
031	Tender expenses	0.00	0.00
032	Less: Receipt from sale of tenders	0.00	0.00
033	Sub-total (Tender expenses)	0.00	0.00
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	0.00	0.00
039	Sub-total (Payment to Auditors)	0.00	0.00
040	Advertisement and publicity	1,007,008.21	657,415.36
041	Electricity duty	0.00	0.00
042	Security expenses	375,343,967.09	460,687,189.93
043	Entertainment expenses	25,139,954.44	26,655,551.12
044	Expenses for guest house	18,821,757.77	17,271,947.40
045	Less:Recoveries	2,432,785.40	0.00
045	Sub-Total (Guest house expenses)	16,388,972.37	17,271,947.40
040	Education expenses	58,099,926.00	79,480,752.00
047	·		0.00
049	Donations	0.00	

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 42 TO THE FS--OTHER EXPENSE

NOT	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
050	Ash utilisation & marketing expenses	796,403,425.57	432,245,428.81
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	2,058,930.20	3,302,664.23
)54	Legal expenses	15,869,702.68	15,480,086.00
055	EDP hire and other charges	778,677.16	1,336,546.59
056	Printing and stationery	1,845,738.55	1,376,617.64
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	25,296,051.88	20,600,619.14
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062		0.00	0.00
063	Cost of Hedging	0.00	166,468.00
064	Derivatives MTM loss/gain (Net)	0.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	-89,322,683.55	-11,861,227.40
066	Transport Vehicle running expenses	1,160,422.83	936,937.36
067	Horticulture Expenses	63,583,840.61	59,411,651.45
068	Hire charges- helicopter/aircraft.	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	55,867,107.84	21,346,532.03
074	Loss on disposal/write-off of PPE	68,736,584.56	231,316,192.66
075	Sub-Total _	3,877,855,966.93	4,043,560,757.81
076	Less: Other expenses allocated to fuel inventory	588,057,845.97	567,027,646.89
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	73,498,661.01	119,725,415.98
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	0.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	58,647,288.00	71,755,551.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 43	-2,659,409.99	5,629,081.66
083	Net (Generation, Administration and Other expenses)	3,160,311,581.94	3,279,423,062.28
084	Corporate Social Responsibility Expenses	98,681,095.39	117,469,384.87
085	Less: Grants-in-aid	0.00	0.00
086	Sub-total (Corporate Social Responsibility Expenses)	98,681,095.39	117,469,384.87
087	Provisions	0.00	0.00
880	Doubtful Debts	0.00	0.00
089	Doubtful loans, advances and claims	0.00	0.00
090	Doubtful Construction Advances	0.00	0.00
091	Shortage in stores	1,655,918.65	156,818.20
092	Obsolete/Dimunition in the value of surplus stores	12,120,326.93	0.00
093	Shortage in construction stores	1,469,730.55	6,233,763.36
094 Lock	Dimunition in value of long term investments ed: 27.04.2022 - 18:42:45	0.00	0.00
	on: 27.04.2022 - 18:57:18 Version: 0	वारण महाराज्यकर (वाशिक्तक) AAC Commission (वाशिक्तक) एन दें के के लिपेरेड/MIPC LIMITED	<sup>677</sup> Page 2 of 3



# RIHAND SUPER THERMAL POWER STATION NOTE NO. 42 TO THE FS--OTHER EXPENSE

( Amount in ₹)

NOI	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in $\langle$ )
	For the Year ended	31.03.2022	31.03.2021
095	Shortage in Fixed assets	0.00	0.00
096	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
097	Unserviceable capital works	0.00	0.00
098	Tariff Adjustment	105,799,000.00	97,702,000.00
099	Others:	0.00	0.00
100	(i) Provision for arbitration cases	418,352.00	418,352.00
101	(ii) Other provisions	0.00	0.00
102	Total (Provisions)	121,463,328.13	104,510,933.56
103		0.00	0.00
104	Total	3,380,456,005.46	3,501,403,380.71
105		0.00	0.00
106	Breakup of miscellaneous expenses.	0.00	0.00
109	Hire charges of office equipment	1,714,504.43	1,215,364.67
111	Operating expenses of construction equipment	0.00	0.00
112	Operating expenses of D.G. sets	0.00	0.00
113	Furnishing expenses	111,933.41	0.00
114	Subscription to trade and other associations.	0.00	0.00
116	Visa and entry permit charges	0.00	0.00
117	Tree plantation expNTPC Land	0.00	0.00
118	Research & development expenses.	0.00	0.00
119	Less : Grants received for Research & develoment expenses.	0.00	0.00
120	Sub-total (Research & development expenses)	0.00	0.00
121	Bank charges	57,713.83	141,681.42
122	Business Development Expenditure	0.00	0.00
123	Surcharge (NVVN)	0.00	0.00
124	Power Trading Expenses	23,017,240.00	6,458,871.00
125	Brokerage & commission	8,510,225.90	1,951,671.00
129	Books and periodicals	61,430.00	88,572.00
130	Claims/advances written off	0.00	0.00
131	Stores written off	0.00	0.00
132	Survey &Investigation expenses written off	2,987,667.50	0.00
133	Others	19,406,392.77	11,490,371.94
134	Total	55,867,107.84	21,346,532.03
135		0.00	0.00
136		0.00	0.00
137		0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION

NOT	E NO. 43 TO THE FSEXPENDITURE DURING CONST	RUCTION PERIOD (NET)	( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
001	EXPENDITURE DURING CONSTRUCTION PERIOD (NET)	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	21,286,958.63	16,690,366.44
004	Contribution to provident and other funds	2,431,771.71	1,990,589.37
005	Unwinding of deffered payroll expenses	0.00	-9,214.56
006	Staff welfare expenses	1,207,329.60	723,088.62
007	Total (A)	24,926,059.94	19,394,829.87
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	5,668,439.23	991,703.48
011	Foreign currency term loans	3,847,461.50	202,998.16
012	Rupee term loans	12,081,882.00	12,796,466.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	74,018,223.04	8,870,269.79
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	1,126,265.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	1,564,768.20	476,690.72
027	Exchange differences regarded as adjustment to interest cost	-1.00	-433,127.66
028	Total (B)	98,307,037.97	22,905,000.49
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	872,302.00	2,653,635.00
033	Less: Recovered from contractors & employees	6,316,951.40	18,237.39
034	Sub-total(Net power charges)	-5,444,649.40	2,635,397.61
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	161,732.04
041		0.00	0.00
042	Insurance	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION

NOT	E NO. 43 TO THE FSEXPENDITURE DURING CONSTR	UCTION PERIOD (NET)	( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
043	Rates and taxes	93.60	0.00
044	Communication expenses	194,837.00	202,309.00
045	Travelling expenses	863,550.68	1,061,207.26
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	Sub-total (Net tender expenses)	0.00	0.00
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	82,552.00	96,997.19
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	Sub-total (Net Guest House Expenses)	0.00	0.00
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	1,644,206.13	1,471,438.56
064	Total (D)	-2,659,409.99	5,629,081.66
065	Total (A+B+C+D)	120,573,687.92	47,928,912.02
066	E. Less: Other Income	0.00	0.00
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	96,735.00	73,452.78
076	TOTAL (E)	96,735.00	73,452.78
077	F. Net actuarial gain/loss OCI	85,940.56	201,530.19
078		0.00	0.00
079	GRAND TOTAL (A+B+C+D-E+F)	120,562,893.48	48,056,989.43
080		0.00	0.00
081	* Balance carried to Capital Work-in-progress - (Note 3)	120,562,893.48	48,056,989.43

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 43A TO THE FS--EDC- COAL MINING

( Amount in ₹)

_	E NO. 43A TO THE FSEDC- COAL MINING		(Amount in ₹)
	For the Year ended	31.03.2022	31.03.2021
001	EDC- Coal Mining	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	Total (A)	0.00	0.00
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	Total (B)	0.00	0.00
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	Sub-total(Net power charges)	0.00	0.00
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	0.00
042	Insurance	0.00	0.00
043	Rates and taxes	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 43A TO THE FS--EDC- COAL MINING

( Amount in ₹)

NOI	E NO. 43A TO THE FSEDC- COAL MINING		( Amount in $\langle$ )
	For the Year ended	31.03.2022	31.03.2021
044	Communication expenses	0.00	0.00
045	Travelling expenses	0.00	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	Sub-total (Net tender expenses)	0.00	0.00
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	0.00	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	Sub-total (Net Guest House Expenses)	0.00	0.00
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	0.00	0.00
064	Total (D)	0.00	0.00
065	Total (A+B+C+D)	0.00	0.00
066	E. Less: Other Income	0.00	0.00
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	0.00	0.00
076	TOTAL (E)	0.00	0.00
077	F. Net actuarial gain/loss OCI	0.00	0.00
078	_	0.00	0.00
079	GRAND TOTAL (A+B+C+D-E+F)	0.00	0.00
080		0.00	0.00
081	* Balance carried to Capital Work-in-progress - (Note 3)	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

( Amount in ₹)

NOI	ENO. 44-A TO THE FINANCIAL STATEMENTS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	1,277.87	1,277.87
004	(b) value (in rs)	50,838,469.84	50,838,469.84
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	1,966.04	1,966.04
007	(b) value (in rs)	312,091,923.56	312,091,923.56
800	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possesession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	Land not in possession of the company	0.00	0.00
014	(a) area (in acres)	0.00	0.00
015	-Freehold	786.37	786.37
016	-Right of Use	0.00	72.47
017	(b) value (in rs)	0.00	0.00
018	-Freehold	14,409,326.78	14,409,326.78
019	-Right of Use	0.00	31,000,000.00
020	Right-of-use buildings pending completion of legal fomalities - value (in rs.)	0.00	0.00
021	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
022	Property, plant & equipment	17,845,234,843.44	13,007,728,593.40
023	Intangible assets	0.00	0.00
024	Details of precommissioning expenditure	0.00	0.00
025	(a) precommissioning expenses	0.00	0.00
026	(b) precommissioning income	0.00	0.00
027	(c) net precommissioning expenditure	0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	-92,096,377.22	-15,064,742.92
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	154,890,055.40	-258,283,111.07
064	Short Term Leases	0.00	0.00
065	A) Rent	0.00	0.00
066	Company lease accomodation - executives	0.00	0.00
067	Company lease accomodation - directors	0.00	0.00
068	Others	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

( Amount in ₹)

NOI	E NO. 44-A TO THE FINANCIAL STATEMENTS		( Amount in ₹ )
	As at	31.03.2022	31.03.2021
069	Total	0.00	0.00
101	Borrowing cost capitalised during the year	24,288,814.93	22,905,000.49
102	Revenue grants recognized during the year	0.00	0.00
103	Revenue expenditure on research and development	0.00	0.00
104	Capital expenditure on research and development.	0.00	0.00
105	Expenditure on sustainibility development - capital	0.00	0.00
106	Expenditure on csr- capital	0.00	0.00
107	Opening balance - CSR Liability	39,305,330.19	12,146,990.00
108	Paid/Adjusted during the Year out of Opening above	-36,690,803.19	-11,111,558.00
109	Amount yet to be paid against Cr Year CSR Exp	3,179,626.00	38,269,898.19
110	Closing Balance CSR- Liability (110)	5,794,153.00	39,305,330.19
111		0.00	0.00
112		0.00	0.00
113		0.00	0.00
114		0.00	0.00
115	Disclosure under msmed act 2006.	0.00	0.00
116	(i) (a) the principal amount remaining unpaid as at year end	344,066,958.09	358,855,306.17
117	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
118	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
119	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
120	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
121	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
122	Amount of inventories recognized as an expense (including fuel)	31,594,433,719.35	32,450,425,492.54
123	Amount of inventories capitalised as overhauling assets out of 122 above	138,605,728.72	211,306,876.17
124	Amount capitalised as edc out of 122 above	0.00	0.00
133	Value of Imported Material Consumed during the Year	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	0.00	0.00
138	(ii)Land compensation cases	35,769,736.80	36,846,334.60
139	(iii)Others by state authorities towards:-	0.00	0.00
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

( Amount in ₹ )

·S	(Amount in ₹)
31.03.2022	31.03.2021
257,912,490.57	213,444,000.00
0.00	0.00
rty 521,176,520.00	674,113,356.00
911,712,917.66	911,712,917.66
0.00	0.00
291,000,980.00	288,553,832.00
0.00	0.00
0.00	0.00
3,691,823.00	3,691,823.00
145,060,360.00	144,606,592.00
4,080,007.53	3,934,244.13
0.00	0.00
240,865,291.85	244,114,529.58
2,411,270,127.41	2,521,017,628.97
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
1,723,890,417.66	1,874,380,105.66
0.00	0.00
148,752,183.00	147,399,897.00
118,267,099.00	124,237,101.00
1,990,909,699.66	2,146,017,103.66
TED 812,756.00	812,756.00
0.00	0.00
ar 0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
6,758,466,834.90	3,031,095,010.70
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
4,445,877,958.44	2,464,027,384.05
1,791,003,583.98	275,380,547.60
268,220,634.24	47,112,066.26
253,364,658.24	244,575,012.79
	<b>3,031,095,010.70</b>
	<b>6,758,466,834.90</b> 0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

( Amount in ₹)

	As at	31.03.2022	31.03.2021
290	Projects temporarily suspended	0.00	0.00
291	Less than 1 year	0.00	0.00
292	1-2 years	0.00	0.00
293	2-3 years	0.00	0.00
294	More than 3 years	0.00	0.00
295	Sub Total (II)	0.00	0.00
296		0.00	0.00
380	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

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NOT	E NO. 44-B TO THE FSRPD DISCLOSURE- TRANSAC	CTIONS DURING THE PERIOD	( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
001	1) Transactions during the year- subsidiaries	0.00	0.00
002	Purchase of equipment, supply & erection services	0.00	0.00
003	Purchase of spares	0.00	0.00
004	Maintenance services	0.00	0.00
005	Contracts for works/services for services provided by the company	0.00	0.00
006	Deputation of employees	0.00	0.00
007	Sales of goods	0.00	0.00
800	Sales of property and other assets	0.00	0.00
009	Sub-total	0.00	0.00
010		0.00	0.00
011	Dvidend received	0.00	0.00
012	Equity contributions made	0.00	0.00
013	Share application money pending allotment	0.00	0.00
014	Loans granted	0.00	0.00
015	Interest on Loan	0.00	0.00
016	Guarantees received	0.00	0.00
017	Guarantees provided	0.00	0.00
018	Sub-total	0.00	0.00
019		0.00	0.00
020	Transactions during the year- jvs	0.00	0.00
021	Purchase of equipment, supply & erection services	5,024,657.17	-1,682,896.23
022	Purchase of spares	0.00	0.00
023	Maintenance services	859,040,089.80	997,681,580.70
024	Contracts for works/services for services provided by the company	0.00	1,329,798.62
025	Deputation of employees	0.00	0.00
026	Sales of goods	0.00	0.00
027	Sales of property and other assets	0.00	0.00
028	Sub-total	864,064,746.97	997,328,483.09
029		0.00	0.00
030	Dividend received	0.00	0.00
031	Equity contributions made	0.00	0.00
032	Share application money pending allotment	0.00	0.00
033	Loans granted	0.00	0.00
034	Guarantees received	0.00	0.00
035	Guarantees provided	0.00	0.00
036	Sub-total	0.00	0.00
037	Total	864,064,746.97	997,328,483.09
038	Transactions with post employment benefit plans	0.00	0.00
039	Contributions made during the year	0.00	0.00
040	Compensation to key management personnel	0.00	0.00
041	Short term employee benefits	0.00	0.00
042	Post employment benefits	0.00	0.00
043	Other long term benefits	0.00	0.00
044	Termination benefits	0.00	0.00

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	NID SOI EN THENMALT OWEN STATION		A Manaratna Company
NOT	E NO. 44-B TO THE FSRPD DISCLOSURE- TRANSA	CTIONS DURING THE PERIOD	( Amount in ₹ )
	For the Year ended	31.03.2022	31.03.2021
045	Sitting Fee	0.00	0.00
046	Share based payments	0.00	0.00
047	Sub-total	0.00	0.00
048	Transactions with the related parties under the control of the same government:	0.00	0.00
049	Coal india ltd And its subsidiaries- purchase of coal	29,254,471,598.00	29,065,603,324.00
050	Singareni coalfields ltd- purchase of coal	0.00	0.00
051	Bhel Itd.	0.00	0.00
052	Purchase of equipment, supply & erection services	83,658,474.64	242,365,356.74
053	Purchase of spares	132,241,476.97	108,328,927.92
054	Maintenance services	255,496,685.48	221,583,436.88
055	Sub-total	471,396,637.09	572,277,721.54
056	Gail (i) ltd. Supply of natural gas	0.00	0.00
057	locl supply of oil products	757,980,356.02	576,989,518.01
058	Bpcl-supply of natural gas and oil	54,520,164.69	36,610,626.00
059	Sail-supply of steel and iron products	218,133,550.53	191,925,531.94
060	Other entities	0.00	0.00
061	Purchase of equipments & erection services	2,578,991.04	558,043.00
062	Purchase of spares	29,830,616.57	43,435,715.81
063	Maintenance services	116,741,621.33	134,637,356.67
064		0.00	0.00
065	Total	30,905,653,535.27	30,622,037,836.97
066	Transaction with other	0.00	0.00
067	Transaction with ntpc education and research society and ntpc foundation	0.00	0.00
068	- transactions during the year	0.00	0.00
069	ADDITIONAL TRANSACTIONS WITH RELATED PARTIES FOR PSU	0.00	0.00
070	Additional Transactions with GAIL	0.00	0.00
071	Additional Transactions with subsidiaries	0.00	0.00
072	Additional Transactions with joint ventures	0.00	0.00
073		0.00	0.00
074		0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 44-C TO THE FS--RPD DISCLOSURE- OUTSTANDING BALANCES

( Amount in ₹)

	2 1101 44 0 10 1112 10 111 D DIOGEOGRE 0010	JITANUE BALLANIOLO	(7tillount III x )
	As at	31.03.2022	31.03.2021
001	Outstanding balance	0.00	0.00
002	Amount recoverable towards loans	0.00	0.00
003	- From Subsidiaries	0.00	0.00
004	- From JVC	0.00	0.00
005	- From KMP	0.00	0.00
006	- From Others	0.00	0.00
007	Sub-total Sub-total	0.00	0.00
800	Amount recoverable other than loan	0.00	0.00
009	- from subsidiaries	0.00	0.00
010	- from joint ventures	0.00	35,658.00
011	- from key managerial personnel	0.00	0.00
012	- from post employment benfit plans	0.00	0.00
013	- from others	0.00	0.00
014	Sub-total	0.00	35,658.00
015	Amount payable	0.00	0.00
016	- from subsidiaries	0.00	0.00
017	- from joint ventures	102,917,865.18	115,175,286.78
018	- from key managerial personnel	0.00	0.00
019	- from post employment benfit plans	0.00	0.00
020	- from others	0.00	0.00
021	Sub-total	102,917,865.18	115,175,286.78
022		0.00	0.00

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#### RIHAND SUPER THERMAL POWER STATION BALANCE SHEET

( Amount in ₹ ) 31.03.2023 Note 31.03.2022 As at 001 ASSETS 0.00 002 0.00 0.00 NON-CURRENT ASSETS 003 0.00 0.60 PROPERTY, PLANT & EQUIPMENT 004 49:521.309.183.69 50,524,638,213.05 CAPITAL-WORK-IN-PROGRESS 005 8,960,205,455.82 3 6.758.466.834.90 DDB INVESTMENT PROPERTY 0.00 0.00 INTANGIBLE ASSETS 007 4 79.793.85 15,262.40 INTANGIBLE ASSETS UNDER DEVELOPMENT DOS 5 0.00 0.00 009 FINANCIAL ASSETS 0.00 0.00 I) EQUITY INVESTMENTS IN SUBSIDIARIES AND 010 ŭ 0.00 0.00 JOINT VENTURES III OTHER INVESTMENTS 011 7 0.00 0.00 012 III) TRADE RECEIVABLES × 0.00 0.00 013 MILDANS 4 111,577,788.06 114,504,593.97 054 V) OTHER FINANCIAL ASSETS 10 0.00 0.00 OTHER NON-CURRENT ASSETS 070 11. 686,673,872.57 1,023,040,464.56 TOTAL NON-CURRENT ASSETS 617 59,379,845,893.79 58,420,665,368.88 018 0.00 0.00 **CURRENT ASSETS** 019 0.00 0.00 INVENTORIES. 13 7,344,113,893.60 620 6,407,743,216.55 FINANCIAL ASSETS 804 0.00 I) OTHER INVESTMENTS 622 13 0.00 0.00 629 II) TRADE RECEIVABLES 14 1,737,334.04 1,733.397.09 III) CASH AND CASH EQUIVALENTS 624 15 0.00 0.00 635 IV) BANK BALANCES OTHER THAN CASH AND 18 0.00 0.00 CASH EQUIVALENTS 026 V) LOANS 12 69,609,653.92 75,812,587.65 027 VIS OTHER FINANCIAL ASSETS 18 126,649,551.86 149,290,961,93 028 CURRENT TAX ASSETS (NET) 0.00 0.00 029 0.00 0.00 030 OTHER CURRENT ASSETS 19 582,394,358.11 453,531,033,23 035 0.00 0.00 032 TOTAL CURRENT ASSECTS 8,224,504,791.53 7,088,111,196.45 033 ASSETS CLASSIFIED AS HELD FOR SALE 6,037,344.90 42,084.39 036 REGULATORY DEFERRAL ACCOUNT DEBIT 20 -43,260,292.59 881,102,021.19 BALANCES 037 TOTAL ASSETS 67,567,127,737.63 66,489,920,670.91 EQUITY AND LIABILITIES. 038 0.00 0.00 039 EQUITY 0.00 0:00 040 EQUITY SHARE CAPITAL 21 0.00 0.00 041 OTHER EQUITY 189,082,302,839.05 178,727,729,333.48 044 TOTAL EQUITY 189,082,302,839.05 178,727,729,333.48 045 0.00 0.00 046 LIABILITIES 0.00 0.00 NON-CURRENT LIABILITIES 0.00 047 0.00 FINANCIAL LIABILITIES 0.00 048 6.00 0.00 CAR I) BORROWINGS 0.60

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	ANCE SHEET	Mate	24 02 2022	( Amount in ₹ )
	As at:	Note	31,03,2023	31.03.2022
050	II) LEASE LIABILITIES	23A	200,090,601,98	0.00
051	III) TRADE PAYABLES		0.00	0.00
052	- TOTAL DUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	24	3.260,711.73	7,630,370.14
083	- TOTAL DUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	24	7,141,146.39	11,108,650,81
054	IV) OTHER FINANCIAL LIABILITIES	25	45.459,369.21	213,937,434.72
055	PROVISIONS	26	0.00	0.00
058	DEFERRED TAX LIABILITIES (NET)	27	0.00	0.00
057	OTHER NON-CURRENT LIABILITIES	28	0.00	0.00
058			0.00	0.00
059	TOTAL NON-CURRENT LIABILITIES		255,960,829,31	232,876,455.67
000			0.00	0.00
061	CURRENT LIABILITIES		0.00	0.00
082	FINANCIAL LIABILITIES		0.00	0.00
063	() BORROWINGS	29	0.00	0.00
064	II) LEASE LIABILITIES	29A	15,569,307.00	0.00
065	II) TRADE PAYABLES		0.00	0.00
066	- TOTAL DUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	30	177,806,736.80	220,046,789.16
067	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	30	2,778,477,796.80	3,104,879,539.52
066	III) OTHER FINANCIAL LIABILITIES	31	4.329.158.828.22	3,800,418,199.66
089	OTHER CURRENT LIABILITIES	32	124,300,877.64	150,807,804.04
070	PROVISIONS	33	9,102,016.00	8,683,684.00
071	CURRENT TAX LIABILITIES (NET)	34	0.00	0.00
072			0.00	0.00
073	TOTAL CURRENT LIABILITIES		7,434,415,564.46	7,284,835,996.68
074			0.00	0.00
077	DEFERRED REVENUE	35	1,57E,387,000.00	1,521,099,000.00
078	REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES	36	0.00	0.00
079	INTER UNIT ACCOUNTS		-130,781,938,495,19	-121,276,830,114,92
080			0.00	0.00
081	TOTAL EQUITY AND LIABILITIES		67,567,127,737.63	66,489,920,670.91
082	Significant Accounting Policies as per note 1	1	0.00	0.00
983			0.00	0.00
084	The Accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.00
085			0.00	0.00

( Auditor Initial & Stamp )

( Head of Finance )

( Head of Unit )

पी. मैदीरला/P. Mediratta महाप्रबंधक (प्रचा. एवं उत्नु.)/GM (O&M) एनटीपीची-रिहन्दनगर/NTPC-Rihandnagar सोनगद (उ०प्र०)/Sonebhadra (U.P.) 231223

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### RIHAND SUPER THERMAL POWER STATION STATEMENT OF PROFIT AND LOSS

STA	TEMENT OF PROFIT AND LOSS			( Amount in ₹ )
	For the Year ended	Note	31.03.2023	31.03.2022
100	Reverses		6.00	0.00
102	Revenue from operations	37	58,472,523,746.09	53,148,219,779,11
003	Other income	38	484,325,517,38	1,201,322,056.93
005	Total Income		58,956,949,263.47	54,349,541,836.04
007	Expenses		0.00	0.00
000	Fuel Including cost of captive coal	384	34.514.865,222.10	30,643,588,568.19
009	Employee benefits expense	30	1,777,403,106.11	1,607,965,286.44
010	Electricity purchased for trading		0.00	0.00
011	Finance costs	40	1,283,819,969,71	1,466,105,749.88
012	Depreciation and amortization expenses	41	4,307,996,560.58	4,182,729,874.91
	Deptersion and annualization improves		0.00	0.00
013	Aut to receive the	42	4,773,404,303.59	5,422,427,005.46
014	Other expenses	***	900,990,130.26	
015	CC expenses charge to revenue			807,280,921.12
016	Less: Unit expenses transferred to OC		0.00	0.00
017	Total expenses	at which the	47,558,469,292.35	42,330,097,406.60
020	Profit before exceptional Items & tax		11,398,479,971.12	12,015,444,430.04
021	Exceptional tems		0.00	0.00
024	Profit before tax	_	11,396,479,971.12	12,019,444,430.04
027	Tax expense:		0.00	0.00
028	Current tax		0.00	0.00
031	Deferred tax		0.00	0.00
034			0.00	0.00
035	Total Tax expense		0.00	0.00
036	Profit for the period before regulatory deferral account balances		11,398,479,971,12	12,019,444,430.04
037	Movement in regulatory deferral account balances		0.00	0.00
038	Regulatory deferred account - deferred		0.00	0.00
039	Others		-1,024,362,313.78	310,015,965.02
040	Tax impact on Regulatory deferral account balances		0.00	0.00
041	Movement in Regulatory deferrall account		-1,624,362,313.78	310,015,565.02
	balances (Net of Tax)		46799972000-915	19695047000
042	Profit for the period/ year		10,374,117,657.34	12,329,459,995,06
055	Other comprehensive Income		0.00	0.00
056	(A) items that will not be reclassified to profit or loss		0.00	0.00
057	Net gains/losses) on fair value of equity instruments     through other comprehensive income.		0.00	0.00
050.	income tax on above that will not be reclassified to profit or lasts		0.00	0.00
059	- Net acturial gains/(losees) on defined benefit plans		-19,544,151.77	-9,725,634.75
000	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
064	A CONTRACTOR OF THE CONTRACTOR		0.00	0.00
065	Other comprehensive income for the year, net of income tax		-19,544,151.77	-9,725,634.75
070	AND AND ADDRESS OF THE PARTY OF		0.00	0.00
071			0.00	0.00
	Total Service handles for one for the owner		10,354,573,505.57	12,319,734,369.31
072	Total Comprehensive Income for the year		10,434,314,300,37	12(2(3)234(200.3)

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STA	TEMENT OF PROFIT AND LOSS			( Amount in < )
	For the Year ended	he Year ended Note 31.03,2023		31.03.2022
680			0.00	0.00
087	Earnings per equity share:		0.00	0.00
880	Basic & Offuted		0.00	0:00
089	Significant Accounting Policies		0.00	0.00
090			0.00	0.00
091	The accompanying notes 1 to 44 form an integral part		0.00	0.00

( Auditor Initial & Stamp )

( Head of Finance )

( Head of Unit )

पी. मैदीरत्ता/P. Mediratta महाप्रबंद्यक (प्रचा. एवं अनु.)/GM (O&M) एनटीपीसी-रिहन्दनगर/NTPC-Rihandnagar सोनवद (उ०प्र०)/Sonebhadra (U.P.) 231223

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Note

31.03.2023

31.03.2022

#### For CEO and CFO Certification

- (a) We acknowledge our responsibility for preparation of financial statements in accordance with the requirements of the Companies Act 2013 and recognised accounting policies and practices. We further acknowledge our responsibility for preparation of financial statement according to the requirement of Section 134(5) of the Companies Act, 2013 relating to Director's Responsibilities Statement.
- (b) We have reviewed these financial statements to the best of our knowledge and belief that these statements do not contain any materially untrue statement or omit any material fact or contain statements that might be misleading and these statements together present a true and fair view of the our Unit's affairs and are in compliance with existing accounting standards, applicable laws and regulations.
- (c) To the best of our knowledge and belief, there are no transactions entered into by the Unit during the year which are fraudulent, illegal or violative of the company's code of conduct.
- (d) We are responsible for establishing and maintaining internal controls for financial reporting and we have evaluated the effectiveness of the internal control system of the Unit pertaining to financial reporting and have disclosed to the auditors, the deficiencies in the design or operation of such internal controls, if any, of which we are aware and the steps we have taken or propose to take to rectify these deficiencies.
- (e) We have indicated to the company's auditors significant changes in internal control over financial reporting during the year, significant changes, if any, in accounting policies during the year and the same have been disclosed in the notes to the financial statements; and instances of significant fraud of which we have become aware and the involvement therein, if any, of the management or an employee having a significant role in the company's internal control system over financial reporting.

( Head of Finance )

( Head of Unit )

पी. मैदीरला/P. Mediratta

महाप्रबंधक (प्रचा. एवं अनु.)/GM (O&M) एनटीपीची-रिहन्दनगर/NTPC-Rihandnagar सोनगद (वंबप्रः)/Sonebhadra (U.P.) 231223

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Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	355016843.25	0.00	0.00	355016843.25	0.00	0.00	0.00	0.00	355016843.25	355016843.25
4 Right of Use	312564894.63	381975426.98	(16402587.63)	678137733.98	85480790.23	19559265.37	(5616449.11)	99423606.49	578714127.49	227084104.40
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of use - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	636337614.70	0.00	0.00	636337614.70	156600245.22	23556879.21	0.00	180157124.43	456180490.27	479737369.48
8 Building :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	1852956664.03	16844083.76	0.00	1869800747.79	438548550.32	63015588.18	0.00	501564138.50	1368236609.29	1414408113.71
11 Others	2561634486.83	13176738.39	0.00	2574811225.22	578271478.87	95496029.90	0.00	673767508.77	1901043716.45	1983363007.96
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	231168.13	0.00	0.00	231168.13	231168.13	0.00	0.00	231168.13	0.00	0.00
14 Water Supply, drainage & sewerage system	546222044.04	0.00	0.00	546222044.04	147146582.36	24193063.05	0.00	171339645.41	374882398.63	399075461.68
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	1353778874.56	530569.59	0.00	1354309444.15	426074134.97	61386311.34	0.00	487460446.31	866848997.84	927704739.59
17 Railway siding	1528212.48	0.00	0.00	1528212.48	712429.73	64482.46	0.00	776912.19	751300.29	815782.75
18 Earth dam reservoir	1456921.40	0.00	0.00	1456921.40	0.00	0.00	0.00	0.00	1456921.40	1456921.40
19 Plant and machinery(including associated civil works) Owned Asset	74164614573.51	3340241532.80	(544289440.95)	76960566665.36	29934556584.50	4541497258.31	(731981424.62)	33744072418.19	43216494247.17	44230057989.01



Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
20 Plant and machinery(including associated civil works) -Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Furniture and fixtures	174964718.54	1676350.00	0.00	176641068.54	78594958.49	9625497.17	0.00	88220455.66	88420612.88	96369760.05
22 Assets under 5 Km Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Vehicles including speedboats / helicopter- Owned	7198115.35	1836000.00	0.00	9034115.35	3207690.71	671403.19	0.00	3879093.90	5155021.45	3990424.64
24 Vehicles including speedboats / helicopter - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Office equipment	100317191.90	496281.64	0.00	100813473.54	59694520.37	6658250.27	0.00	66352770.64	34460702.90	40622671.53
26 EDP, WP machines and satcom equipment	81544199.83	55528767.92	(11294623.43)	125778344.32	66533167.59	14980080.67	(11232170.33)	70281077.93	55497266.39	15011032.24
27 Construction equipments	65110895.86	0.00	0.00	65110895.86	29074058.93	2027521.71	0.00	31101580.64	34009315.22	36036836.93
28 Electrical Installations	331078040.99	0.00	0.00	331078040.99	140007740.40	21198417.68	0.00	161206158.08	169871882.91	191070300.59
29 Communication equipments	31956347.30	855500.00	0.00	32811847.30	24604550.37	483314.00	0.00	25087864.37	7723982.93	7351796.93
30 Hospital equipments	34939396.98	1223800.08	0.00	36163197.06	17430901.95	3295165.86	0.00	20726067.81	15437129.25	17508495.03
31 Laboratory and workshop equipments	149409000.82	1573758.95	0.00	150982759.77	51452438.94	8422703.15	0.00	59875142.09	91107617.68	97956561.88
32 Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Assets of Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 (Less):-Adjusted from fly ash utilisation reserve fund	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	82762860205.13	3815958810.11	(571986652.01)	86006832363.23	32238221992.08	4896131231.52	(748830044.06)	36385523179.54	49621309183.69	50524638213.05
Grand Total Prev Year (Tangible)	82040081026.12	1446704961.36	(723925782.35)	82762860205.13	28420630260.45	4722518393.06	(904926661.43)	32238221992.08	50524638213.05	53619450765.67

Details of Adjustments of Gross Block and Depreciation/Amortization							
Particulars	Gross	Block	Depreciation/Amortization				
	Tangible As At: 31.03.2023	Tangible As At: 31.03.2022	Tangible As At: 31.03.2023	Tangible As At: 31.03.2022			
Disposal of assets	(11218922.70)	(352672.50)	(11218922.70)	(352672.50)			
Retirement of assets	(832440819.19)	(995236466.75)	(738408039.74)	(926400049.04)			
Cost adjustments	254681373.92	154890055.40	0.00	0.00			
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00			
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00			
Transfer in /out because of Inter Unit transfers	26964560.27	116773301.50	796918.38	21826060.11			
Others	(9972844.31)	0.00	0.00	0.00			
TOTAL	(571986652.01)	(723925782.35)	(748830044.06)	(904926661.43)			

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

#### Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2022	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2023
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads					
4	Piling and foundation					
5	Buildings :					
6	Main plant					
7	Others	83909704.41	57882229.10	(13733403.39)		128058530.12
8	Temporary erection					
9	Water supply, drainage and sewerage system					
10	Hydraulic works, barrages, dams, tunnels and power channel					
11	MGR track and signalling system		530569.59	(530569.59)		
12	Railway siding					
13	Earth dam reservoir					
14	Plant and equipment	6305289092.45	4838729538.38	(1260069968.84)	1167430596.92	8716518065.07
15	Furniture and fixtures					
16	Vehicles					
17	Office equipment					
18	EDP/WP machines & satcom equipment					
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop equipments					
24	Assets under 5Km Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey,Investigation,Consultancy & Supervision Cha		391613.00			391613.00
28	Difference in exchange on foreign currency loans					

Note forming part of Balance Sheet Note 3: Capital-Work-in-Progress Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2022	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2023
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commissioning expenses (net)					
31	ExpPendAlloca-oth ex attribut Project					
32	Expenditure During Construction Period (net)*		101556618.75	3866764.12		105423382.87
33	LESS : Allocated to related works		105423382.87			105423382.87
34	LESS : Provision for Unservicable works					
35	Construction stores (At Cost)					
36	Steel	2548783.67		43276.08		2592059.75
37	Cement	1894956.30		(171047.43)		1723908.87
38	Others	366294028.62	5343628.00	(260627980.45)		111009676.17
39	Sub-total Sub-total	370737768.59	5343628.00	(260755751.80)		115325644.79
40	LESS : Provision for shortages	1469730.55		(1381333.39)		88397.16
41	Sub-total	369268038.04	5343628.00	(259374418.41)		115237247.63
42	Total CWIP	6758466834.90	4899010813.95	(1529841596.11)	1167430596.92	8960205455.82
43						
44						
45	PREVIOUS YEAR TOTAL	3031095010.70	4746007936.56	(60821215.76)	875877285.62	6758466834.90

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) :

0.00

700

Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 -Software	4773867.26	92925.00	0.00	4866792.26	4758604.86	28393.75	0.00	4786998.61	79793.65	15262.40
Grand Total (Intangible)	4773867.26	92925.00	0.00	4866792.26	4758604.86	28393.75	0.00	4786998.61	79793.65	15262.40
Grand Total Prev Year (Intangible)	4773867.26	0.00	0.00	4773867.26	4758604.86	0.00	0.00	4758604.86	15262.40	15262.40

Details of Adjustments of Gross Block and Depreciation/Amortization							
Particulars	Gross	Block	Depreciation/Amortization				
	InTangible As At: 31.03.2023	InTangible As At: 31.03.2022	InTangible As At: 31.03.2023	InTangible As At: 31.03.2022			
Disposal of assets	0.00	0.00	0.00	0.00			
Retirement of assets	0.00	0.00	0.00	0.00			
Cost adjustments	0.00	0.00	0.00	0.00			
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00			
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00			
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00			
Others	0.00	0.00	0.00	0.00			
TOTAL	0.00	0.00	0.00	0.00			

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00 Note forming part of Balance Sheet Note 5: Intangible Assets under Development Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2022	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2023
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Others					
4	Exploration and Evaluation Expentiture - Coal Mini					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) :

0.00



NOTE NO. 6 TO THE FS-NCA-EG	DUITY INVESTMENTS IN SURSIDI	IARIES AND JOINT VENTURES	(Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
001	NON CURRENT INVESTMENTS- INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES			0.00	0.00
012	EQUITY INSTRUMENTS - UNQUOTED-(FULLY PAID UP UNLESS OTHERWISE STATED, AT COST)			0.00	0.00
013	SUBSIDIARY COMPANIES			0.00	0.00
014	PATRATU VIDYUT UTPADAN NIGAM LTD.			0.00	0.00
015	NTPC ELECTRIC SUPPLY COMPANY LTD.			0.00	0.00
016	NTPC VIDYUT VYAPAR NIGAM LTD.			0.00	0.00
017	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
018	KANTI BIJLEE UTPADAN NIGAM LTD.			0.00	0.00
019	BHARTIYA RAIL BIJLEE COMPANY LTD.			0.00	0.00
020	NTPC MINING LTD (NML)			0.00	0.00
021	THDC INDIA LTD.			0.00	0.00
022	NEEPCO LTD.			0.00	0.00
023	NTPC EDMC Waste Solutions Pvt Ltd			0.00	0.00
024	NTPC Renewables Energy Ltd			0.00	0.00
025	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
026	NTPC Green Energy Limited			0.00	0.00
027	Green Valley Renewable Energy Limited			0.00	0.00
028				0.00	0.00
029				0.00	0.00
030	SUB TOTAL			0.00	0.00
055	JOINT VENTURE COMPANIES			0.00	0.00
056	Utility Powertech Ltd.			0.00	0.00
057	NTPC GE Power Services Pvt.Ltd.			0.00	0.00
058	NTPC-SAIL Power Company Ltd.			0.00	0.00
059	NTPC-Tamil Nadu Energy Company Ltd.			0.00	0.00

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#### NOTE NO. 6 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES (Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
60	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
61	ARAVALI POWER COMPANY PRIVATE LTD.			0.00	0.00
62	Jhabua Power Ltd.			0.00	0.00
63	NTPC BHEL POWER PROJECTS PRIVATE LTD.			0.00	0.00
64	MEJA URJA NIGAM PRIVATE LIMITED			0.00	0.00
65	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
66				0.00	0.00
67	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
68	TRANSFORMER AND ELECTRICAL KERALA LTD.			0.00	0.00
69	NATIONAL HIGH POWER TEST LABORTORY PRIVATE LTD.			0.00	0.00
70				0.00	0.00
71	CIL NTPC URJA PRIVATE LTD.			0.00	0.00
72	ANUSHAKTI VIDHYUT NIGAM LTD.			0.00	0.00
73	ENERGY EFFICIENCY SERVICES LTD.			0.00	0.00
74				0.00	0.00
75	TRINCOMALEE POWER COMPANY LTD.			0.00	0.00
76	BANGLADESH-INDIA FRIENDSHIP POWER COMPANY (PVT.) LTD.			0.00	0.00
77	HINDUSTAN URVARAK & RASAYAN LIMITED			0.00	0.00
78	KONKAN LNG LTD			0.00	0.00
31	SUB TOTAL			0.00	0.00
09	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
10	TOTAL (NET OF IMPAIRMENT) OF JV			0.00	0.00
11	Gross Total of Investments			0.00	0.00
34	Total			0.00	0.00
35	Details of Investments			0.00	0.00
36	Aggregate amount of Unquoted Investments			0.00	0.00

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#### NOTE NO. 6 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES (Amount in ₹)

As at	No. of shares	Face value	31.03.2023	31.03.2022
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
Valuation of Investments as per Note 1.			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00

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#### NOTE NO. 7 TO THE FS-NCA-OTHER INVESTMENTS

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
01	Non-current financial assets (investments)			0.00	0.00
06	Long Term - Trade			0.00	0.00
07	Equity Instruments (fully paid up-unless otherwise stated)			0.00	0.00
80	Quoted			0.00	0.00
09	JOINT VENTURE COMPANIES			0.00	0.0
10	PTC India Ltd.			0.00	0.0
70	INTERNATIONAL COAL VENTURES PRIVATE LTD.			0.00	0.00
75	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
98	Jhabua Power Limited-8.5% Non convertible debentures - private placement			0.00	0.0
10	COOPERATIVE SOCIETIES			0.00	0.00
11				0.00	0.0
12	SUB TOTAL			0.00	0.0
13	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
15	TOTAL			0.00	0.0
20				0.00	0.00
46	NTPC EMPLOYEES CONSUMERS AND THRIFT CO-OPERATIVE SOCIETY LTD. KORBA			0.00	0.00
47	NTPC EMPLOYEES CONSUMERS AND THRIFT COOPERATIVE SOCIETY LTD. RSTPP			0.00	0.00
48	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. FARAKKA			0.00	0.00
49	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. VINDHYACHAL			0.00	0.00
50	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. ANTA			0.00	0.00
51	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. KAWAS			0.00	0.0
52	NTPC Employees Consumers Cooperative Society Ltd. Kaniha	)		0.00	0.00

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#### NOTE NO. 8 TO THE FS-NCA-TRADE RECEIVABLES ( Amount in ₹) 31.03.2023 31.03.2022 001 Non-current financial assets - Trade receivables 0.00 0.00 002 UNSECURED, CONSIDERED GOOD 0.00 0.00 **CREDIT IMPAIRED** 003 0.00 0.00 004 0.00 0.00 006 Total 0.00 0.00

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NOT	E NO. 9 TO THE FS-NCA-LOANS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
001	LOANS (NON CURRENT)	0.00	0.00
004	RELATED PARTIES	0.00	0.00
005	SECURED	0.00	0.00
006	UN-SECURED	0.00	0.00
007	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
800	CREDIT IMPAIRED	0.00	0.00
009		0.00	0.00
010	EMPLOYEES(INCLUDING ACCRUED INTEREST)	0.00	0.00
011	SECURED	94,115,817.95	87,385,641.00
012	UNSECURED	45,955,656.57	55,663,708.67
013	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
014	CREDIT IMPAIRED	0.00	0.00
015	LESS: EMPLOYEE LOANS DISCOUNTING	0.00	0.00
016	SECURED	22,171,388.03	21,476,411.67
017	UNSECURED	6,322,298.43	7,068,344.03
018	LOAN TO STATE GOVERNMENT IN SETTLEMENT OF DUES FROM CUSTOMERS (UNSECURED)	0.00	0.00
019	OTHERS	0.00	0.00
020	SECURED	0.00	0.00
021	UNSECURED	0.00	0.00
022	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
023	CREDIT IMPAIRED	0.00	0.00
024	LESS: ALLOWANCE FOR CREDIT IMPAIRED LOANS	0.00	0.00
026	SUB TOTAL	111,577,788.06	114,504,593.97
027		0.00	0.00
028	TOTAL	111,577,788.06	114,504,593.97
029		0.00	0.00
030		0.00	0.00
031	Due from Directors and Officers of the Company	0.00	0.00
032	Directors	0.00	0.00
033	Officers	0.00	0.00
034		0.00	0.00
035	Loans to related parties include:	0.00	0.00
036	i)Key management personel	0.00	0.00
037	ii)Subsidiary companies	0.00	0.00
038	iii)Joint Venture companies	0.00	0.00
039	iv)Others	0.00	0.00
040		0.00	0.00
055	Other loans represent loans given to	0.00	0.00
056	a) APIIC	0.00	0.00
061		0.00	0.00
062	RPD	0.00	0.00
063	i)Key management personel	0.00	0.00

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**NOTE NO. 9 TO THE FS-NCA-LOANS** ( Amount in ₹) 31.03.2023 31.03.2022 As at ii)Subsidiary companies 064 0.00 0.00 iii)Joint Venture companies 065 0.00 0.00 066 iv)Others 0.00 0.00 067 Total 0.00 0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS

NOT	E NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
001	Other Financial Assets (non current)	0.00	0.00
002		0.00	0.00
003	Share application money pending allotment in (Subsidiary Companies) :	0.00	0.00
004	NTPC Electric Supply Company Ltd.	0.00	0.00
005	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
006	Nabinagar Power Generating Company Ltd.	0.00	0.00
007	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
800	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012	NEEPCO Ltd	0.00	0.00
013		0.00	0.00
014	Total	0.00	0.00
015	Share application money pending allotment (Joint Venture)	0.00	0.00
016	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018	NTPC-SAIL Power Company Ltd.	0.00	0.00
019	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021	Aravali Power Company Private Ltd.	0.00	0.00
022		0.00	0.00
023	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024	Meja Urja Nigam Private Limited	0.00	0.00
025	BF-NTPC Energy Systems Ltd.	0.00	0.00
026	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
	Energy Efficiency Services Ltd.	0.00	0.00
029	National High Power Test Labortory Private Ltd.	0.00	0.00
030	,	0.00	0.00
031	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033	Hindustan Urvarak & Rasayan Limited	0.00	0.00
034	Bangladesh-India Friendship Power Company Private Ltd.	0.00	0.00
035	Sub Total	0.00	0.00
036		0.00	0.00
037	Claims Recoverable	0.00	0.00
038	Finance Lease Recoverable	0.00	0.00
039	Mine Closure Deposit	0.00	0.00
040	Financial Deposit	0.00	0.00
041		0.00	0.00
042	Total	0.00	0.00

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( Amount in ₹)

	As at	31.03.2023	31.03.2022
010		0.00	0.00

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NOI	E NO. 11 TO THE FS-NCA-OTHER NON-CURRENT		( Amount in ₹)
004	As at	31.03.2023	31.03.2022
001	Other Non-current Assets	0.00	0.00
002	CARITAL ADVANCES	0.00 0.00	0.00 0.00
003 004	CAPITAL ADVANCES SECURED	0.00	0.00
004	Unsecured	0.00	0.00
005	COVERED BY BANK GUARANTEE	600,930,914.00	194,789,674.00
000	OTHERS	54,522,506.49	53,588,917.11
007	CONSIDERED DOUBTFUL	0.00	0.00
009	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	0.00	0.00
010	Sub-Total	655,453,420.49	248,378,591.11
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	SECURITY DEPOSITS	1,524,280.00	1,524,280.00
019	Advances to Related parties	0.00	0.00
022	Advances to Contractors & Suppliers	0.00	0.00
023	SECURED	0.00	0.00
024	UNSECURED	0.00	0.00
025	CONSIDERED DOUBTFUL	0.00	0.00
026	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	0.00	0.00
027	Sub Total	1,524,280.00	1,524,280.00
028	RECEIVABLE FROM MCP ESCROW A/C	0.00	0.00
029	Pre Paid expenses	0.00	0.00
039	ADVANCE TAX & TAX DEDUCTED AT SOURCE	9,747,424.13	7,544,241.17
040	LESS:- PROVISION FOR CURRENT TAX	0.00	0.00
041		0.00	0.00
042	Sub Total	9,747,424.13	7,544,241.17
043	DEFERRED PAYROLL EXPENSES (SECURED)	15,584,840.68	16,323,225.74
044	DEFERRED PAYROLL EXPENSES (UNSECURED)	4,362,707.27	4,860,126.54
045	Sub Total	19,947,547.95	21,183,352.28
046	DEFERRED FOREIGN CURRENCY FLUCTUATION ASSET	1,000.00	744,410,000.00
049		0.00	0.00
050	Total	686,673,672.57	1,023,040,464.56
051		0.00	0.00
052		0.00	0.00
062	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
064		0.00	0.00
065	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
066		0.00	0.00
067	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
068	Aravali Power Company Private Ltd.	0.00	0.00
069	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

( Amount in ₹)

	= <u>                                     </u>		(7tinounit iii v
	As at	31.03.2023	31.03.2022
070	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
071	Meja Urja Nigam Private Limited	0.00	0.00
072	Nabinagar Power Generating Company Ltd.	0.00	0.00
073	National High Power Test Labortory Private Ltd.	0.00	0.00
075	CIL NTPC Urja Private Ltd.	0.00	0.00
077		0.00	0.00
078	Related Party (Adv)	0.00	0.00
079	Key Management personel	0.00	0.00
080	Subsidiary companies	0.00	0.00
081	Joint Venture companies	0.00	0.00
082	Contractors	0.00	0.00
083	Others	0.00	0.00
085		0.00	0.00
086	Total	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 12 TO THE FS-CA-INVENTORIES

NOT	E NO. 12 TO THE FS-CA-INVENTORIES	( Amount in ₹ )	
	As at	31.03.2023	31.03.2022
001	INVENTORIES	0.00	0.00
002		0.00	0.00
003	Coal	2,580,101,057.99	2,703,905,576.35
004	Fuel oil	547,439,933.51	331,140,312.31
005	Naphtha	0.00	0.00
006	Stores and spares	3,448,710,137.80	2,663,630,801.56
007	Chemicals & consumables	76,411,103.07	65,606,636.51
800	Loose tools	2,161,544.92	1,308,727.02
009	Steel Scrap	6,955,006.69	6,531,859.28
010	Others	726,364,476.25	670,976,891.13
011		0.00	0.00
012	Sub Total	7,388,143,260.23	6,443,100,804.16
013	Less: Provision for shortages	222,450.81	1,655,918.65
014	Less: Provision for obsolete/ unservicable/dimunition in value of surplus inventory	43,806,915.82	33,701,668.96
016		0.00	0.00
017	Total	7,344,113,893.60	6,407,743,216.55
018	Inventories include material in transit	0.00	0.00
019	Coal	0.00	0.00
020	Fuel oil	0.00	0.00
021	Naphtha	0.00	0.00
022	Stores and spares	180,646.08	7,409,492.60
023	Chemicals & consumables	1,207,500.10	8,269,466.13
024	Loose tools	0.00	0.00
025	Others	0.00	12,040,077.62
026		0.00	0.00
028	Inventory items other than steel scrap have been valued considering Note 1.	0.00	0.00

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#### NOTE NO. 13 TO THE FS-CA-OTHER INVESTMENTS

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
01	CURRENT INVESTMENTS			0.00	0.00
02	(Valuation as per Note 1)			0.00	0.00
03	Jhabua Power Limited-8.5% Non convertible debentures - private placement			0.00	0.00
33	Investment in Mutual Funds (Details as under)			0.00	0.00
34	SBI-Magnum Insta Cash Fund-DDR			0.00	0.00
35	SBI Premier Liquid Fund Super-IP-DDR			0.00	0.00
36	SBI-SHF Ultra Short Term Fund-IP-DDR			0.00	0.00
37	UTI Money Market- IP-Direct-Growth			0.00	0.00
38	IDBI-Liquid plan- Direct-Growth			0.00	0.00
39	Canara Robeco Liquid Fund Super-IP-DDR			0.00	0.00
40	Canara Robeco Treasury Advantage Fund Super-IP-DDR			0.00	0.00
141	IDBI Liquid Fund-DDR			0.00	0.00
142	SBI Premier Liquid fund-Direct DDR (Ash Fund)			0.00	0.00
143	UTI Liquid CashPlan - IP - DDR (Ash Funds)			0.00	0.00
)44	IDBI Liquid Fund - DDR - (Ash Funds)			0.00	0.00
145	Baroda Liquid Fund - Direct - Growth			0.00	0.00
46				0.00	0.00
)47	Sub Total			0.00	0.00
148				0.00	0.00
52	Unquoted Investments			0.00	0.00
54				0.00	0.00
166	TOTAL			0.00	0.00
67				0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

NOT	NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES (Amount in ₹				
	As at	31.03.2023	31.03.2022		
001	TRADE RECEIVABLES (current)*	0.00	0.00		
002		0.00	0.00		
003	Secured,Considered Good	0.00	0.00		
004	Unsecured, considered good	1,737,334.04	1,733,397.09		
005	Credit impaired	0.00	0.00		
006	Unbilled Revenue	0.00	0.00		
007	Sub-Total _	1,737,334.04	1,733,397.09		
800	Total _	1,737,334.04	1,733,397.09		
009	Less: Allowance for credit impaired receivables	0.00	0.00		
010	Total _	1,737,334.04	1,733,397.09		
012	Less: Discom Clearing	0.00	0.00		
014	<u> </u>	0.00	0.00		
015	Grand Total	1,737,334.04	1,733,397.09		
016	Other Unsecured	0.00	0.00		
017	Long-term trade receivables	0.00	0.00		
018	TCS Clearing	0.00	0.00		
019	Discom Clearing	0.00	0.00		
228	Trade Receivable	0.00	0.00		
230	Not due	0.00	0.00		
231	Due	0.00	0.00		
232	(i) Undisputed Trade receivables # considered good	1,737,334.04	1,733,397.09		
233	(ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00		
234	(iii) Undisputed Trade Receivables # credit impaired	0.00	0.00		
235	(iv) Disputed Trade Receivables#considered good	0.00	0.00		
236	(v) Disputed Trade Receivables # which have significant increase in credit risk	0.00	0.00		
237	(vi) Disputed Trade Receivables # credit impaired	0.00	0.00		
238	Unbilled _	0.00	0.00		
239	Total _	1,737,334.04	1,733,397.09		
240		0.00	0.00		
241	(i) Undisputed Trade receivables # considered good	0.00	0.00		
242	Less than 6 months	1,737,334.04	1,733,397.09		
243	6 months -1 year	0.00	0.00		
244	1-2 years	0.00	0.00		
245	2-3 years	0.00	0.00		
246	More than 3 years	0.00	0.00		
247	Sub Total (I)	1,737,334.04	1,733,397.09		
248	(ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00		
249	Less than 6 months	0.00	0.00		
250	6 months -1 year	0.00	0.00		
251	1-2 years	0.00	0.00		
252	2-3 years	0.00	0.00		

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NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES ( Amount in ₹) 31.03.2023 31.03.2022 As at 253 More than 3 years 0.00 0.00 254 0.00 Sub Total (II) 0.00 255 (iii) Undisputed Trade Receivables -credit 0.00 0.00 impaired 256 0.00 0.00 Less than 6 months 257 0.00 0.00 6 months -1 year 258 0.00 1-2 years 0.00 259 2-3 years 0.00 0.00 260 More than 3 years 0.00 0.00 261 Sub Total (III) 0.00 0.00 262 0.00 0.00 263 (iv) Disputed Trade Receivables#considered 0.00 0.00 good 264 Less than 6 months 0.00 0.00 6 months -1 year 0.00 265 0.00 266 1-2 years 0.00 0.00 267 2-3 years 0.00 0.00 268 More than 3 years 0.00 0.00 269 Sub Total (IV) 0.00 0.00 (v) Disputed Trade Receivables # which have 270 0.00 0.00 significant increase in credit risk 271 Less than 6 months 0.00 0.00 272 6 months -1 year 0.00 0.00 273 1-2 years 0.00 0.00 274 2-3 years 0.00 0.00 More than 3 years 0.00 275 0.00 276 Sub Total (V) 0.00 0.00 (vi) Disputed Trade Receivables # credit 277 0.00 0.00 impaired 0.00 0.00 278 Less than 6 months 279 0.00 0.00 6 months -1 year 280 1-2 years 0.00 0.00 281 0.00 2-3 years 0.00 282 0.00 More than 3 years 0.00

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Sub Total (VI)

Total

283

284

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0.00

-3,474,668.08

0.00

-3,466,794.18



0.00

0.00

### RIHAND SUPER THERMAL POWER STATION

009

011 **Total** 

NOTE NO. 15 TO THE FS-CA-CASH AND CASH EQUIVALENTS ( Amount in ₹) 31.03.2023 31.03.2022 001 **CASH & BANK BALANCES** 0.00 0.00 002 Cash & Cash Equivalents 0.00 0.00 0.00 003 Balances with Banks 0.00 004 Cheques & Drafts on hand 0.00 0.00 005 Cash on hand 0.00 0.00 006 Others (stamps in hand) 0.00 0.00 007 Bank deposits with original maturity upto three 0.00 0.00 months Balances with RBI 0.00 0.00 800

0.00

0.00

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	As at	31.03.2023	31.03.2022
001	Other Bank Balances	0.00	0.00
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	SubTotal	0.00	0.00
005	Interest accrued on deposits	0.00	0.00
006	· ·	0.00	0.00
800	Total	0.00	0.00
009		0.00	0.00
010	Earmarked balances with banks consist of :	0.00	0.00
011	Unpaid dividend account balance	0.00	0.00
012	Towards public deposit repayment reserve	0.00	0.00
013	Towards redemption of bonds due for repayment within one year	0.00	0.00
014	Security with Government/other authorities	0.00	0.00
015	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
016	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund	0.00	0.00
017	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
018	Deposits with original maturity upto three months as per court orders	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
020	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
021	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
022	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
023	Others	0.00	0.00
024	Margin Money	0.00	0.00
025		0.00	0.00
026		0.00	0.00
027	Sub-total	0.00	0.00
031	Total	0.00	0.00
032		0.00	0.00
033	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
034	Bank deposits with original maturity of more than three months but not more than twelve monthsother than earmarked	0.00	0.00
035	Earmarked bank balances (current account)	0.00	0.00

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NOT	E NO. 17 TO THE FS-CA-LOANS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
001	Current financial assets - Loans	0.00	0.00
002	Loans (current)-including interest accrued	0.00	0.00
004	Related Parties	0.00	0.00
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
800	Credit impaired	0.00	0.00
009		0.00	0.00
010	Employees	0.00	0.00
011	Secured	20,385,267.61	19,369,168.43
012	Unsecured	49,224,386.31	56,443,419.22
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	Loan to State Government in settlement of dues from customers (Unsecured)	0.00	0.00
017		0.00	0.00
018	Others	0.00	0.00
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		0.00	0.00
024	Less: Allowance for credit impaired loans	0.00	0.00
026		0.00	0.00
027	Total (Loans)	69,609,653.92	75,812,587.65
028		0.00	0.00
029	Due from Directors and Officers of the Company	0.00	0.00
030	Directors	0.00	0.00
031	Officers	0.00	0.00
032		0.00	0.00
033	Loans to related parties include:	0.00	0.00
034	i)Key management personel	0.00	0.00
035	ii)Subsidiary companies	0.00	0.00
036	KBUNL	0.00	0.00
037	RGPPL	0.00	0.00
038	NVVN	0.00	0.00
039 040	iii)Joint Venture companies	0.00 0.00	0.00 0.00
	iv)others		
041 060	RPD	0.00	0.00 0.00
060	i)Key management personel	0.00	0.00
062	ii)Subsidiary companies	0.00	0.00
062	iii)Joint Venture companies	0.00	0.00
064	iv)Others	0.00	0.00
065	TV/Outlots	0.00	0.00
000		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 17 TO THE FS-CA-LOANS

 NOTE NO. 17 TO THE FS-CA-LOANS
 (Amount in ₹)

 As at
 31.03.2023

066 **Total** 0.00 0.00

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RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS ( Amount in ₹) 31.03.2023 31.03.2022 001 Other Financial Assets (current) 0.00 0.00 002 0.00 0.00 003 **ADVANCES** 0.00 0.00 004 0.00 0.00 005 **Related Parties** 0.00 0.00 006 Secured 0.00 0.00 007 **Un-Secured** 84,291,452.19 75,281,568.77 Considered doubtful 800 0.00 0.00 009 0.00 0.00 010 **Employees** 0.00 0.00 012 Unsecured 4,837,250.36 4,592,765.26 013 Considered Doubtful 0.00 0.00 014 0.00 0.00 020 **Others** 0.00 0.00 021 Secured 0.00 0.00 022 Unsecured 0.00 0.00 023 Considered Doubtful 0.00 0.00 024 0.00 0.00 025 Less: Allowance for bad & doubtful advances 0.00 0.00 026 0.00 0.00 033 **Total (Advances)** 88,884,217.45 80,118,819.13 044 0.00 0.00 045 Claims Recoverable 0.00 0.00 046 Secured 0.00 0.00 Unsecured, considered good 047 10,262,639.69 2,233,059.02 048 Considered Doubtful 0.00 0.00 049 Less:- Allowance for doubtful claims 0.00 0.00 Others-Claims Recoverable 050 0.00 0.00 051 0.00 0.00 052 Contract Asset- Revenue 2,663,746.83 2,841,100.83 053 Hedging cost recoverable from beneficiaries 0.00 0.00 054 **Derivative MTM Asset** 0.00 0.00 055 Finance Lease Receivable 0.00 0.00 056 Mine Closure Deposit 0.00 0.00 057 0.00 0.00 **Financial Deposit** 059 0.00 0.00 **Other Accrued Income** 060 Secured, Considered Good 0.00 0.00 061 Unsecured, considered good 24,838,947.89 64,097,982.95 062 Credit impaired 0.00 0.00 063 0.00 0.00 064 **Sub-Total** 24,838,947.89 64,097,982.95 065 0.00 Less: Allowance for credit impaired receivables 0.00 066 **Total** 24,838,947.89 64,097,982.95 067 0.00 0.00

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Others\*

068

070

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0.00

0.00

0.00

0.00



#### RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

( Amount in ₹)

1401	L NO. 18 TO THE TS-CA-OTHER TINANCIAL ASSETS		( Amount in \	
	As at	31.03.2023	31.03.2022	
071	Total	126,649,551.86	149,290,961.93	
072	* Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00	
073	Advances to related parties include:	0.00	0.00	
074	i)Key management personel	0.00	0.00	
075		0.00	0.00	
076	iii)Joint Venture companies	0.00	0.00	
077		0.00	0.00	
078	v)Others	0.00	0.00	
079		0.00	0.00	
080	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00	
081	Related Party (Adv)- Employee	0.00	0.00	
082	Related Party (Adv)- Subsidiaries	83,366,423.19	75,281,568.77	
083	Related Party (Adv)- Joint Ventures	925,029.00	0.00	
084		0.00	0.00	
085	Related Party (Adv)- Others	0.00	0.00	
086		0.00	0.00	
099		0.00	0.00	
100		0.00	0.00	
101	Total	84,291,452.19	75,281,568.77	

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NOI	E NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS		( Amount in ₹)
	As at	31.03.2023	31.03.2022
001	OTHER CURRENT ASSETS	0.00	0.00
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	812,756.00	812,756.00
004	ADVANCES	0.00	0.00
005		0.00	0.00
006	Related Parties	0.00	0.00
007	Secured	0.00	0.00
800	Un-Secured	1,407,513.00	1,407,513.00
009	Considered doubtful	0.00	0.00
010		0.00	0.00
011	Employees(including imprest)	0.00	0.00
012	Secured	0.00	0.00
013	Unsecured	1,322,275.00	355,986.00
014	Considered Doubtful	0.00	0.00
015		0.00	0.00
016	Contractors & Suppliers	0.00	0.00
017	Secured	0.00	0.00
018	Unsecured	205,359,772.28	136,271,338.36
019	Considered Doubtful	0.00	0.00
020		0.00	0.00
021	Others**	0.00	0.00
022	Secured	0.00	0.00
023	Unsecured	18,994,496.00	18,584,624.00
024	Considered Doubtful	0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026	Receivable from MCP Escrow A/c	0.00	0.00
027	Deferred Payroll Expenses (Secured)	1,972,468.83	2,129,056.99
028	Deferred Payroll Expenses (Unsecured)	3,069,573.18	3,686,929.13
029	Sub-total	5,042,042.01	5,815,986.12
030	Interest accrued on :	0.00	0.00
031	Advances to contractors	0.00	0.00
032		0.00	0.00
033	Claims Recoverable	0.00	0.00
034	Secured	0.00	0.00
035	Unsecured, considered good	445,294,831.82	286,458,564.02
036	Considered Doubtful	26,600,000.00	26,600,000.00
037	Less:- Allowance for doubtful claims	26,600,000.00	26,600,000.00
038		0.00	0.00
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041		0.00	0.00
042	Others	4,160,672.00	3,824,265.73
043	_	0.00	0.00
045	Total (Other Current Assets)	682,394,358.11	453,531,033.23
046	**Include Prepaid Expenses	18,220,222.00	17,926,405.00
047	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	812,756.00	812,756.00
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NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS ( Amount in ₹) 31.03.2023 31.03.2022 048 \*Includes deposited with courts 0.00 0.00 049 0.00 0.00 \*Includes deposited with LIC for annuity payments 050 \* Includes deposits with WRD / against BG in r/o 0.00 0.00 finance lease 051 0.00 0.00 Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc. Advances to related parties include: 0.00 0.00 053 054 0.00 0.00 i)Key management personel 055 ii)Subsidiary companies 0.00 0.00 0.00 056 iii)Joint Venture companies 0.00 057 Contractors 0.00 0.00 058 Others 0.00 0.00 059 0.00 0.00 060 Advances include amount due from the following 0.00 0.00 Private Companies in which Directors of the Company are also Directors in such Companies 061 0.00 0.00 062 0.00 0.00 063 Related Party (Adv)- Employee 0.00 0.00 064 Related Party (Adv)- Subsidiaries 0.00 0.00 065 Related Party (Adv)- Joint Venture 1,407,513.00 1,407,513.00 066 0.00 0.00 067 0.00 0.00 1,407,513.00 068 Total 1,407,513.00 069 0.00 0.00

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NOT	E NO. 20 TO THE FSREGULATORY DEFERRA	( Amount in ₹ )	
	As at	31.03.2023	31.03.2022
001	On account of Exchange Differences	-127,675,626.92	-138,738,090.16
002	On account of employee benefit exp	84,415,334.33	84,415,334.33
003	Regulatory deferred account - deferred	0.00	0.00
004	Deferred asset for ash transportation	0.00	1,035,424,777.02
005	Deferred asset for Arbitration Award	0.00	0.00
800		0.00	0.00
009	Total	-43,260,292.59	981,102,021.19

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

( Amount in ₹)

NOI	ENO. 21 TO THE F3-EQUITI-EQUITI SHAKE CAL	TIIAL	( Alliount in \ )
	As at	31.03.2023	31.03.2022
001	SHARE CAPITAL	0.00	0.00
002	Equity Share Capital	0.00	0.00
003	Authorised	0.00	0.00
004	16,60,00,00,000 equity shares of Rs.10/- each (Previous year 10,000,000,000 equity shares of Rs.10/- each)	0.00	0.00
005	Issued,Subscribed and fully Paid-up	0.00	0.00
006	9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 9,894,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		0.00	0.00
800	Total	0.00	0.00
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holding	0.00	0.00
015	<ul> <li>Life Insurance Corporation of India/ICICI</li> <li>Prudential Mutual Fund</li> </ul>	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

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#### RIHAND SUPER THERMAL POWER STATION NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

NOT	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
001	RESERVE AND SURPLUS	0.00	0.00
002		0.00	0.00
003	Capital Reserve	0.00	0.00
004	As per last financial statements	0.00	0.00
006	Add: Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
800	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	SUB-TOTAL	0.00	0.00
011		0.00	0.00
017		0.00	0.00
018	SECURITIES PREMIUM ACCOUNT	0.00	0.00
019	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
020	ADD: ADDITIONS DURING THE YEAR/PERIOD	0.00	0.00
021	LESS: ADJUSTMENTS DURING THE YEAR/PERIOD	0.00	0.00
022	SUB-TOTAL	0.00	0.00
023	BONDS REDEMPTION RESERVE	0.00	0.00
024	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
025	ADD: TRANSFER FROM SURPLUS	0.00	0.00
026	LESS: TRANSFER TO SURPLUS ON REDEMPTION	0.00	0.00
027	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
028	SUB-TOTAL	0.00	0.00
029	CAPITAL REDEMPTION RESERVE	0.00	0.00
030	As per last financial statements	0.00	0.00
031	Add: Transfer from Surplus	0.00	0.00
032	Less: Transfer to surplus on redemption	0.00	0.00
033	Less: Adjustments during the year/ period	0.00	0.00
034	Sub-Total	0.00	0.00
035	Share Application money pending Allotment	0.00	0.00
036	As per last financial statements	0.00	0.00
037	Add: Addition during the year	0.00	0.00
038	Less: Utlised for allotment during the year	0.00	0.00
039	Less: Adjustments during the year/ period	0.00	0.00
040	SUB-TOTAL	0.00	0.00
046	FLY-ASH UTILISATION RESERVE FUND	0.00	0.00
047	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
048	TRANSFERRED TO CC	0.00	0.00
049	ADD:TRANSFER FROM REVENUE FROM OPERATIONS	549,433.49	0.00
050	ADD:TRANSFER FROM OTHER INCOME	0.00	0.00
051	LESS: UTILISED DURING THE YEAR	0.00	0.00
052	TANGIBLE ASSETS	0.00	0.00
053	EMPLOYEE BENEFIT EXPENSES	0.00	0.00
054	GENERATION, ADMN. AND OTHER EXPENSES	549,433.49	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

( Amount in ₹)

NOI	E NO. 22 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
055	TAX EXPENSES	0.00	0.00
056	SUB-TOTAL _	0.00	0.00
057	Self Insurance Reserve	0.00	0.00
058	As per last financial statements	0.00	0.00
059	Add: Addition during the year	0.00	0.00
060	Less: Utlised for allotment during the year	0.00	0.00
061	Less: Adjustments during the year/ period	0.00	0.00
062	SUB-TOTAL	0.00	0.00
063	SPECIAL ALLOWANCE RESERVE FUND	0.00	0.00
064	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
065	ADD: ADDITION DURING THE YEAR	0.00	0.00
066	LESS: UTLISED FOR ALLOTMENT DURING THE YEAR	0.00	0.00
067	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
068	SUB-TOTAL	0.00	0.00
069	CORPORATE SOCIAL RESPONSIBILITY (CSR) RESERVE	0.00	0.00
070	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
071	ADD : TRANSFER FROM SURPLUS	0.00	0.00
072	LESS:-WRITE BACK DURING THE YEAR	0.00	0.00
073	SUB-TOTAL	0.00	0.00
074	GENERAL RESERVE	0.00	0.00
075	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
076	ADD: TRANSFER FROM SURPLUS	0.00	0.00
077	LESS: TRANSFER TO SURPLUS	0.00	0.00
078	LESS: WRITE BACK DURING THE YEAR /PERIOD	0.00	0.00
079	LESS: ADJUSTMENTS DURING THE YEAR /PERIOD	0.00	0.00
080	SUB-TOTAL	0.00	0.00
081		0.00	0.00
082	RETAINED EARNINGS	0.00	0.00
083	AS PER LAST FINANCIAL STATEMENTS	178,934,325,577.14	166,604,865,582.08
084	ADD(LESS):-CHANGES IN ACCOUNTING POLICY / PRIOR PERIOD ERRORS	0.00	0.00
085	ADD(LESS):-PROFIT (LOSS) AFTER TAX FOR THE YEAR FROM STATEMENT OF PROFIT & LOSS	10,374,117,657.34	12,329,459,995.06
087	ADD: WRITE BACK FROM BOND REDEMPTION RESERVE	0.00	0.00
880	ADD: WRITE BACK FROM CAPITAL RESERVE	0.00	0.00
089	ADD: WRITE BACK FROM FOREIGN PROJECT RESERVE	0.00	0.00
090	ADD: WRITE BACK FROM CSR RESERVE	0.00	0.00
091	ADD: WRITE BACK FROM GENERAL RESERVE	0.00	0.00
093	LESS: TRANSFER TO BONDS REDEMPTION RESERVE	0.00	0.00

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NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY ( Amount in ₹) 31.03.2023 31.03.2022 094 LESS: TRANSFER TO SPECIAL ALLOWANCE 0.00 0.00 **RESERVE FUND** LESS: TRANSFER TO FOREIGN PROJECT 0.00 095 0.00 **RESERVE** 096 LESS:TRANSFER TO CAPITAL RESERVE 0.00 0.00 097 LESS:TRANSFER TO CSR RESERVE 0.00 0.00 098 LESS:TRANSFER TO GENERAL RESERVE 0.00 0.00 LESS:INTERIM DIVIDEND PAID 099 0.00 0.00 100 LESS:TAX ON INTERIM DIVIDEND PAID 0.00 0.00 101 LESS:FINAL DIVIDEND PAID 0.00 0.00 LESS:TAX ON FINAL DIVIDEND PAID 102 0.00 0.00 103 LESS: ISSUE OF BONUS DEBENTURE 0.00 0.00 104 LESS: TAX ON ISSUE OF BONUS DEBENTURE 0.00 0.00 105 **SUB-TOTAL** 189,308,443,234.48 178,934,325,577.14 110 0.00 0.00 111 REMEASUREMENT OF DEFINED BENEFIT 0.00 0.00 **PLANS** 112 AS PER LAST FINANCIAL STATEMENTS -206,596,243.66 -196,870,608.91 ADD/(LESS):- ACTUARIAL GAINS/LOSS 113 -19,544,151.77 -9,725,634.75 THROUGH OCI **SUB-TOTAL** 114 -206,596,243.66 -226,140,395.43 115 0.00 0.00 116 **FVTOCI** Reserve 0.00 0.00 117 AS PER LAST FINANCIAL STATEMENTS 0.00 0.00 118 ADD(LESS):-NET GAIN/LOSS OF EQUITY 0.00 0.00 INSTRUMENTS THROUGH OCI 119 **Sub-Total** 0.00 0.00 120 0.00 0.00 121 **Total Other equity** 189,082,302,839.05 178,727,729,333.48 122 0.00 0.00 123 0.00 0.00 124 0.00 0.00 125 0.00 0.00 126 0.00 0.00 127 0.00 0.00 128 0.00 0.00

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( Amount in ₹)

As at 31.03.2023 31.03.2022

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NOTE NO. 23 TO THE FS-NCL-BORROWINGS ( Amount in ₹) 31.03.2023 31.03.2022 001 LONG TERM BORROWINGS 0.00 0.00 002 Bonds 0.00 0.00 003 Secured 0.00 0.00 004 7.37 % Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A). 005 7.62 % Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B). 006 8.61% Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement) 007 8.66% Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds -2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3A) 008 8.91% Tax free secured non-cumulative 0.00 0.00 non-convertible redeemable bonds -2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3B) 009 7.37% Secured non-cumulative 0.00 0.00 non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement) 010 7.49% Secured non-cumulative 0.00 0.00 non-convertible redeemable taxable bonds Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement) 7.28 % Tax free secured non-cumulative 0.00 0.00 011 non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable

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at par in full on 5th October

2030 (Fifty Sixth Issue - Public Issue - Series





( Amount in ₹)

NOTI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

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( Amount in ₹)

NOI	E NO. 23 TO THE F3-NGL-BURROWINGS		( Amount in ( )
	As at	31.03.2023	31.03.2022
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)		
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)		
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/-each redeemable at par in full on 22nd September 2024 (53rd Issue - private placement).	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

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( Amount in ₹)

NOI	E NO. 23 TO THE F3-NCL-BC	DRROWINGS		( Amount in $\langle \cdot \rangle$
	As at		31.03.2023	31.03.2022
	par in full on 4th March 2 (Fifty First Issue A - Privat			
028	8.41% Tax free secur non-convertible redeema 2013 of ₹ 1000/- each re full on 16th December 20 Fiftieth Issue - Public Issu	ble bonds - edeemable at par in 23 (	0.00	0.00
029	8.66% Tax free secur non-convertible redeema 2013 of ₹ 1000/- each re full on 16th December 20 Fiftieth Issue - Public Issu	ble bonds - deemable at par in 23 (	0.00	0.00
030	9.25% Secured non-convertible redeems of ₹10,00,000/- each with fi transferable redeemable principal parts (STRPP) rethe end of 11th year and annual installments there of 15th year respectively commencing from 4th May 2027 (Forty fissue - private placement	ve equal separately edeemable at par at in eafter upto the end ay 2023 and ending ourth	0.00	0.00
031	8.48% Secured non-nonvertible redeems of ₹ 10,00,000/- each redee on 1st May 2023 (Seventeenth issue - privalent of the second	emable at par in full	0.00	0.00
032	8.80% Secured non-convertible redeems of ₹10,00,000/- each redee on 4th April 2023 (Forty ninth issue -private place	mable at par in full	0.00	0.00
033	8.49% Secured non-convertible redeema paid-up bonus debenture redeemable at par in threannual installments of Rs Rs. 5.00 at the end of 8th year, 9th year and 10th y 2023, 25th March 2025 respelssue -Bonus Debentures (refer Note 5 d)	es of Rs. 12.50 each ee . 2.50, Rs. 5.00 and eear on 25th March nd ctively (Fifty Fourth	0.00	0.00
034	8.73% Secured	non-cumulative	0.00	0.00
			$\sim$	- , ,

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NGL-BURKOWINGS		( Amount in ( )
	As at	31.03.2023	31.03.2022
	non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 07th March 2023 (Forty eighth issue - private placement)		
	, ,		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of `10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00
11	- d- 07 04 0000 - 40-40-05	>A_	

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	₹ 10,00,000/- each redeemable at par in full		

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( Amount in ₹)

1101	E NO. 23 TO THE FS-NCL-BURROWINGS		( Amount in ( )
	As at	31.03.2023	31.03.2022
	on 12th January 2019 (Nineteenth issue - private placement)II		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)III	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)VII	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)VII	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)I	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)III	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

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( Amount in ₹)

	As at	31.03.2023	31.03.2022
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)III		
056	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)III	0.00	0.00
057	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)III	0.00	0.00
058	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)III	0.00	0.00
059	8.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00

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( Amount in ₹)

	NO. 23 TO THE FS-NCL-BURROWINGS		( Amount in $\langle$ )
	As at	31.03.2023	31.03.2022
	year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th December 2016 and ending on 15th December 2030 (Thirty sixth issue - private placement)III		
060	8.785% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th September 2016 and ending on 15th September 2030 (Thirty fifth issue - private placement)III	0.00	0.00
061	8.71% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 10th June 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)III	0.00	0.00
062	8.8493% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 25th March 2016 and ending on 25th March 2030 (Thirty second issue - private placement)III	0.00	0.00
063	9.37% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty fifth issue -	0.00	0.00

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( Amount in ₹)

	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ( )
	As at	31.03.2023	31.03.2022
	private placement)III		
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)V	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

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( Amount in ₹)

1101	L NO. 23 TO THE TO-NOL-BORROWINGS		(Amount mx)
	As at	31.03.2023	31.03.2022
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
075		0.00	0.00
076		0.00	0.00
077	Sub Total	0.00	0.00
078	Unsecured	0.00	0.00
079	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth Issue - Private Placement)	0.00	0.00
080	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First Issue - Private Placement)	0.00	0.00
081	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second Issue - Private Placement)	0.00	0.00
082	6.43% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in	0.00	0.00
		A -	

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ( )
	As at	31.03.2023	31.03.2022
	full on 27 January 2031 (Seventy Third Issue - Private Placement)		
083	6.87% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21 April 2036 (Seventy Fourth Issue - Private Placement)	0.00	0.00
084	6.69% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 13 September 2031 (Seventy Fifth Issue - Private Placement)	0.00	0.00
085	6.74% Unsecured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 14 April 2032 (Seventy Sixth Issue - Private Placement)	0.00	0.00
086	5.78% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 29 April 2024 (Seventy Seventh Issue - Private Placement)	0.00	0.00
087	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 25 August 2032 (Seventy Eighth Issue - Private Placement)	0.00	0.00
880	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 15 April 2033 (Seventy Ninth Issue - Private Placement)	0.00	0.00
089		0.00	0.00
090	Sub-total	0.00	0.00
091	Total	0.00	0.00
092	Foreign Currency Notes-Unsecured	0.00	0.00
093	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
094	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
095	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
096	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
097	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
098	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
099	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
100	5.625% Fixed Rate Notes due for repayment on	0.00	0.00
	•		

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( Amount in ₹)

NOI	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
	14th July 2021		
101	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
102		0.00	0.00
103		0.00	0.00
104		0.00	0.00
105	Sub Total	0.00	0.00
106	Term Loans	0.00	0.00
107	From Banks	0.00	0.00
108	Secured	0.00	0.00
109	Rupee Loans	0.00	0.00
110	Unsecured	0.00	0.00
111	Foreign Currency Loans	0.00	0.00
112	Rupee Loans	0.00	0.00
113	From Others	0.00	0.00
114	Secured	0.00	0.00
115	Rupee Loans	0.00	0.00
116	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
117	Unsecured	0.00	0.00
118	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
119	Other Foreign currency loans	0.00	0.00
121	Rupee Loans	0.00	0.00
122	Deposits	0.00	0.00
123	Unsecured	0.00	0.00
124	Fixed Deposits	0.00	0.00
125	Others	0.00	0.00
126	Unsecured	0.00	0.00
127	Bonds Application Money Pending Allotment	0.00	0.00
128	Sub-total	0.00	0.00
129	Total	0.00	0.00
130	Less:- Interst accrued but not due on secured borrowings	0.00	0.00
131	Less:- Interst accrued but not due on unsecured borrowings	0.00	0.00
132	Less:- Current maturities of long term borrowings	0.00	0.00
133	Bonds-Secured	0.00	0.00
134	Fixed Rate Notes	0.00	0.00
136	Foreign currency loans from Banks- unsecured	0.00	0.00
137	Rupee loans from banks- Secured	0.00	0.00
138	Rupee loans from banks- unsecured	0.00	0.00
139	Rupee Term loan from Others - Secured	0.00	0.00
140	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
141	Other foreign currency loans from others- unsecured	0.00	0.00
142	Rupee loans from others- unsecured	0.00	0.00
143		0.00	0.00

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( Amount in ₹)

As at	31.03.2023	31.03.2022
144	0.00	0.00
145	0.00	0.00
146	0.00	0.00
147	0.00	0.00
148	0.00	0.00
149	0.00	0.00
150	0.00	0.00
151	0.00	0.00
201 Total	0.00	0.00

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NOTE NO. 23A TO THE FS-NCL-LEASE BORROWINGS ( Amount in ₹) 31.03.2022 31.03.2023 Non-current financial liabilities - Lease 0.00 0.00 001 liabilities 002 Lease liabilities 0.00 0.00 Long term maturities of Finance Lease Liabilities 0.00 0.00 003 (Secured) IX 004 Long term maturities of Finance Lease Liabilites 215,659,908.98 0.00 (Unsecured) X 005 **Sub-Total** 215,659,908.98 0.00 006 Less: current maturities of lease liabilities 0.00 0.00 007 Finance Lease obligations - secured 0.00 0.00 Finance Lease obligations - unsecured 800 15,569,307.00 0.00 15,569,307.00 009 **Sub-Total** 0.00 011 Total 200,090,601.98 0.00

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NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES ( Amount in ₹) 31.03.2023 31.03.2022 001 TRADE PAYABLES(NON CURRENT) 0.00 0.00 002 For Goods and Services 0.00 0.00 003 - Micro & Small Enterprises 7,830,370.14 3,269,711.73 004 - Others 7,141,146.39 11,108,650.81 005 0.00 0.00 10,410,858.12 18,939,020.95 007 Total

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NOT	NOTE NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
001	OTHER FINANCIAL LIABILITIES (NON-CURRENT)	0.00	0.00
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	1,225,518.70	3,022,575.28
004	- Others	44,233,850.51	210,903,859.44
005	Others	0.00	0.00
006	Deposits from contractors and others	0.00	11,000.00
007		0.00	0.00
800		0.00	0.00
010	Total	45,459,369.21	213,937,434.72

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( Amount in ₹)

	<u> </u>		( / till dant ill ( )
	As at	31.03.2023	31.03.2022
001	LONG TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
006		0.00	0.00
007	Others	0.00	0.00
800	i) Mine Closure Provision	0.00	0.00
009	Opening Balance	0.00	0.00
010	Additions during the year	0.00	0.00
011	Amounts adjusted during the year	0.00	0.00
012	Amounts reversed during the year	0.00	0.00
013	Closing Balance	0.00	0.00
014		0.00	0.00
015	ii) Stripping Activity Adjustments	0.00	0.00
016	Opening Balance	0.00	0.00
017	Additions during the year	0.00	0.00
018	Amounts adjusted during the year	0.00	0.00
019	Amounts reversed during the year	0.00	0.00
020	Closing Balance	0.00	0.00
021		0.00	0.00
024	_	0.00	0.00
026	TOTAL	0.00	0.00

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NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET) ( Amount in ₹ ) **Open Balance** Addition **Closing Balance** As at on 01.04.2022 on 31.03.2023 001 **DEFERRED TAX LIABILITIES (NET)** 002 Difference of book depreciation and 0.00 0.00 0.00 tax depreciation 003 Less: Deferred tax assets 004 Provisions & Other disallowances for 0.00 0.00 0.00 tax purposes 005 **Unabsorbed Depreciation** 0.00 0.00 0.00 006 Disallowances u/s 43B of the Income 0.00 0.00 0.00 Tax Act, 1961 0.00 0.00 007 Others 0.00 800 **Opening Balance** 0.00 0.00 0.00 0.00 0.00 0.00 009 Additions during the year 0.00 0.00 0.00 010 Amounts adjusted during the year 011 Amounts reversed during the year 0.00 0.00 0.00 012 0.00 Closing Balance 0.00 0.00 013 MAT credit entitlement 0.00 0.00 0.00 014 Total 0.00 0.00 0.00 016 0.00 0.00 0.00 017 Total 0.00 0.00 0.00 Breakup of deferred tax assets 0.00 018 0.00 0.00 0.00 019 Provision 0.00 0.00 020 Statutory dues 0.00 0.00 0.00 021 Leave encashment 0.00 0.00 0.00 022 0.00 0.00 0.00 Others 023 0.00 0.00 0.00 024 0.00 0.00 0.00

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#### NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES

( Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
006		0.00	0.00
007	TOTAL	0.00	0.00

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( Amount in ₹ )

NOTE	NO. 29 TO THE FS-CL-BORROWINGS		( Amount in ( )
	As at	31.03.2023	31.03.2022
001	Short Term Borrowings	0.00	0.00
002	Loans repayable on demand	0.00	0.00
003	From Banks	0.00	0.00
004	Secured	0.00	0.00
005	Cash Credit	0.00	0.00
006	Unsecured	0.00	0.00
007	Cash Credit	0.00	0.00
800	Other loans-unsecured	0.00	0.00
009	Commercial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	Sub-Total	0.00	0.00
012	Current maturity of long term borrowings	0.00	0.00
013	Bonds-Secured	0.00	0.00
014	Foreign Currency Fixed Rate Notes	0.00	0.00
015	From Banks	0.00	0.00
016	Secured	0.00	0.00
017	Rupee Term Loan	0.00	0.00
018	Foreign currency loans	0.00	0.00
019	Unsecured	0.00	0.00
020	Foreign currency loans	0.00	0.00
021	Rupee term loans	0.00	0.00
022	From Others	0.00	0.00
023	Secured	0.00	0.00
024	Rupee Term Loan	0.00	0.00
025	Unsecured	0.00	0.00
026	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
027	Other foreign currency loans	0.00	0.00
028	Rupee term loans	0.00	0.00
029	Fixed deposits	0.00	0.00
031	Sub Total	0.00	0.00
032		0.00	0.00
034	TOTAL	0.00	0.00

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#### NOTE NO. 29A TO THE FS-CL-LEASE BORROWINGS

( Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Current financial liabilities - Lease liabilities	0.00	0.00
002	Current maturity of finance lease obligations (secured)	0.00	0.00
003	Current maturity of finance lease obligations (unsecured)	15,569,307.00	0.00
005	Total	15,569,307.00	0.00

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NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES			( Amount in ₹ )
	As at	31.03.2023	31.03.2022
001	TRADE PAYABLES	0.00	0.00
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	177,806,736.80	220,046,789.16
004	- Others	2,778,477,798.80	3,104,879,539.52
005		0.00	0.00
007	Total	2,956,284,535.60	3,324,926,328.68
800		0.00	0.00
172	Trade payable	0.00	0.00
173	MSME	0.00	0.00
174	Unbilled	74,792,751.08	75,353,748.01
175	Not due	73,630,183.72	111,869,021.20
176	Due	29,383,802.00	32,824,020.00
177	Disputed	0.00	0.00
178	Undisputed	29,383,802.00	32,824,020.00
179		0.00	0.00
180	Sub-total (A)	177,806,736.80	220,046,789.21
181		0.00	0.00
182	Others	0.00	0.00
183	Unbilled	526,354,427.03	512,665,789.10
184	Not due	313,362,335.66	210,843,363.50
185	Due	1,938,761,036.11	2,381,370,387.00
186	Disputed	0.00	0.00
187	Undisputed	1,938,761,036.11	2,381,370,387.00
188		0.00	0.00
189	Sub-total (B)	2,778,477,798.80	3,104,879,539.60
190		0.00	0.00
191	Total	2,956,284,535.60	3,324,926,328.81
192		0.00	0.00
193	Ageing	0.00	0.00
194	MSME	0.00	0.00
195	Disputed	0.00	0.00
196	Less than 1 year	0.00	0.00
197	1-2 years	0.00	0.00
198	2-3 years	0.00	0.00
199	More than 3 years	0.00	0.00
200	Sub Total (I)	0.00	0.00
201		0.00	0.00
202	Undisputed	0.00	0.00
203	Less than 1 year	29,383,802.00	32,824,020.00
204	1-2 years	0.00	0.00
205	2-3 years	0.00	0.00
206	More than 3 years	0.00	0.00
207	Sub Total (II)	29,383,802.00	32,824,020.00
208		0.00	0.00
209	Total MSME (III)	29,383,802.00	32,824,020.00
210		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

( Amount in ₹)

	As at	31.03.2023	31.03.2022
211	Others	0.00	0.00
212	Disputed	0.00	0.00
213	Less than 1 year	0.00	0.00
214	1-2 years	0.00	0.00
215	2-3 years	0.00	0.00
216	More than 3 years	0.00	0.00
217	Sub Total (IV)	0.00	0.00
218		0.00	0.00
219	Undisputed	0.00	0.00
220	Less than 1 year	1,209,670,512.11	1,676,015,685.00
221	1-2 years	42,685,077.00	85,164,135.00
222	2-3 years	84,846,453.00	193,027,381.00
223	More than 3 years	601,558,994.00	427,163,186.00
224	Sub Total (V)	1,938,761,036.11	2,381,370,387.00
225		0.00	0.00
226	Total Others (VI)	1,938,761,036.11	2,381,370,387.00

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NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES ( Amount in ₹ ) 31.03.2023 31.03.2022 OTHER FINANCIAL LIABILITIES (CURRENT) 0.00 001 0.00 020 Interest accrued but not due on Unsecured Short 0.00 0.00 **Term Borrowing** 021 Interest accrued but not due on secured 0.00 0.00 borrowings 022 Interest accrued but not due on unsecured 0.00 0.00 borrowings 023 0.00 0.00 Unpaid Dividends\* 024 0.00 0.00 Unpaid matured deposits and interest accrued thereon\* 025 Unpaid matured bonds and interest accrued 0.00 0.00 thereon\* 0.00 0.00 026 Unpaid bond refund money-Tax free bonds \* 0.00 0.00 027 **Book Overdraft** 0.00 028 0.00 Payable to Customers 029 Liability under forward exchange contact 0.00 0.00 030 Hedging cost payable to beneficiaries 0.00 0.00 031 **Derivative MTM Liability** 0.00 0.00 032 **Payable for Capital Expenditure** 0.00 0.00 033 - Micro & Small Enterprises 54,992,423.13 113,167,223.51 034 - Others 4,136,529,470.41 3,485,636,092.15 035 Others Payables 0.00 0.00 036 Deposits from contractors and others 85,777,478.98 85,251,588.78 037 **Gratuity Obligations** 0.00 0.00 038 Payable to employees 34,784,381.31 19,782,024.00 039 Payable to holding company 0.00 0.00 040 Retention on A/c BG encashment (Solar) 0.00 0.00 041 Payable to Solar Payment Security Account 0.00 0.00 Others \*\* 042 17,075,074.39 96,581,271.22 Unspent CSR balance on ongoing Approved CSR 043 0.00 0.00 projects 045 0.00 0.00 046 0.00 0.00 047 **Total** 4,329,158,828.22 3,800,418,199.66 048 \* Represents the amounts which have not been 0.00 0.00 claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection

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\*\* Include Payable to Hospital and other payable.



0.00

0.00



# RIHAND SUPER THERMAL POWER STATION NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES

( Amount in ₹)

		··	(711104111111)
	As at	31.03.2023	31.03.2022
001	OTHER CURRENT LIABILITIES	0.00	0.00
002	Advances from customers and others	25,885,048.95	66,809,931.25
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	98,415,828.69	83,997,873.09
005	Deposits from contractors and others	0.00	0.00
006	Government grants	0.00	0.00
007	Others	0.00	0.00
009		0.00	0.00
010	_	0.00	0.00
011	Total	124,300,877.64	150,807,804.34

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NOTE NO. 33 TO THE FS-CL-PROVISIONS ( Amount in ₹) 31.03.2023 31.03.2022 001 SHORT TERM PROVISIONS 0.00 0.00 002 0.00 **Provision for Employee Benefits** 0.00 003 0.00 0.00 Opening balance 004 0.00 Additions/ (adjustments) during the year 0.00 005 0.00 0.00 **Closing Balance** 028 **Provisions for Obligations Incidental to Land** 0.00 0.00 Acquisition 029 Opening balance 0.00 0.00 030 Additions during the year 0.00 0.00 031 Amounts paid during the year 0.00 0.00 032 Amounts reversed during the year 0.00 0.00 033 **Closing Balance** 0.00 0.00 **Provision for Tariff Adjustment** 035 0.00 0.00 036 Opening balance 0.00 0.00 037 0.00 Additions during the year 0.00 038 Amounts adjusted during the year 0.00 0.00 039 Amounts reversed during the year 0.00 0.00 040 **Closing Balance** 0.00 0.00 0.00 042 **Provision for shortage in Fixed Assets Pending** 0.00 **Investigation & Others** 043 Opening balance 0.00 0.00 0.00 0.00 044 Additions during the year 0.00 045 Amounts adjusted during the year 0.00 046 0.00 Amounts reversed during the year 0.00 0.00 047 **Closing Balance** 0.00 048 **Provision for Arbitration** 0.00 0.00 049 8,683,664.00 8,265,312.00 Opening balance 418,352.00 418,352.00 050 Additions during the year 051 Amounts used during the year 0.00 0.00 052 0.00 Amounts reversed during the year 0.00 053 **Closing Balance** 9,102,016.00 8,683,664.00 **Others** 054 0.00 0.00 055 0.00 0.00 Opening balance 056 Additions during the year 0.00 0.00 057 Amounts used during the year 0.00 0.00 058 Amounts reversed during the year 0.00 0.00 0.00 059 **Closing Balance** 0.00 102 0.00 0.00 104 Total 9,102,016.00 8,683,664.00

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NOTE NO. 34 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

( Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Current liabilities - current tax liabilities (net)	0.00	0.00
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
007		0.00	0.00
800	Closing Balance	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 35 TO THE FS--DEFERRED REVENUE

( Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Deferred Revenue	0.00	0.00
002	On account of advance against depreciation	0.00	0.00
003	On account of income from foreign currency fluctuation	1,576,387,000.00	1,521,099,000.00
004	Government grants	0.00	0.00
007		0.00	0.00
800		0.00	0.00
009	TOTAL	1,576,387,000.00	1,521,099,000.00

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NOTE NO. 36 TO THE FSREGULATORY DEFERRAL ACCOUNT CREDIT BALANCES			
	As at	31.03.2023	31.03.2022
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
005	Total	0.00	0.00

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NOT	E NO. 37 TO THE FSREVENUE FROM OPERATIONS		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
001	REVENUE FROM OPERATIONS	0.00	0.00
002	Sales	0.00	0.00
003	Energy Sales (including Electricity Duty)	59,501,444,689.70	53,502,461,025.00
004	Less: Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add: Exchange fluctuation receivable from customers	-1,007,159,000.00	-1,191,045,000.00
007	Sale of energy through trading	0.00	0.00
800	Commission (NVVN)	0.00	0.00
009	Sub total	58,494,285,689.70	52,311,416,025.00
010	Less: Rebate to customers	365,485,046.28	244,496,889.89
011	Energy Sales (Total)	58,128,800,643.42	52,066,919,135.11
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	Sub-total	0.00	0.00
018	Total - Sales	58,128,800,643.42	52,066,919,135.11
019	Sale of fly ash/ash products	549,433.49	0.00
020	Less: Transferred to fly ash utilisation reserve fund	-549,433.49	0.00
021	Sub-total	0.00	0.00
022	Other Operating Income	0.00	0.00
023	Interest from customers	301,077,404.00	1,049,324,712.00
024	Energy Internally Consumed *	34,769,384.00	31,975,932.00
025	Interest income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	7,976,314.67	0.00
029	Income from E-Mobility Business & others	0.00	0.00
030	Others	0.00	0.00
032		0.00	0.00
033		0.00	0.00
034	Total	58,472,623,746.09	53,148,219,779.11
040	* Valued at variable cost of generation and corresponding amount included in power charges ( Note No. 42)	0.00	0.00
041	Excise duty on sale of flyash,cenospere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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RIHA	AND SUPER THERMAL POWER STATION		
NOT	E NO. 38 TO THE FSOTHER INCOME		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
001	OTHER INCOME	0.00	0.00
002	Interest from	0.00	0.00
004	Financial assets at amortised cost	0.00	0.00
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007	Non current Trade Receivable	0.00	0.00
800	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortziation of premium	0.00	0.00
010	Sub Total	0.00	0.00
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	14,118,222.87	15,984,260.52
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	825,495.00	915,881.70
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	Sub Total	0.00	0.00
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	Sub Total	0.00	0.00
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	689,007.00	1,179,995.49
031	Other investments in Joint venture companies	0.00	0.00
032	Dividend from	0.00	0.00
033	Longterm investments in	0.00	0.00
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	Current Investments in	0.00	0.00
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
041	Lease Rent # Ash Brick Plant	0.00	0.00
042	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	0.00	0.00
044	Profit on disposal of PPE	113,631.34	3,591.10
045	Profit on redemption of GOI securities	0.00	0.00
		( )	

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	E NO. 38 TO THE FSOTHER INCOME		(Amount in ₹)
	For the Year ended	31.03.2023	31.03.2022
046	Net gain on sale of investments	0.00	0.00
047	Surcharge received from customers	156,699,458.00	890,083,371.00
048	Hire charges for equipment	498,590.40	0.00
049	Gain on option contract / Discount on F.ExchContract	6,390,259.00	27,567,170.36
050	Provision written back-others	3,573,171.43	8,667,761.36
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less : Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less : Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	301,521,785.10	257,016,760.40
057	Total	484,429,620.14	1,201,418,791.93
058	Less:Transferred to Development of Coal Mines- Note 43A	0.00	0.00
059	Less:Transferred to Expenditure during Construction period (net)- Note 43	104,102.76	96,735.00
060	Less: Others	0.00	0.00
061	Less:Transferred to payable to Govt. of Jharkhand	0.00	0.00
063		0.00	0.00
064		0.00	0.00
065	Total	484,325,517.38	1,201,322,056.93
066		0.00	0.00
067	Details of Miscellaneous Income	0.00	
068	Vahiala I liva Chavasa	0.00	0.00
	Vehicle Hire Charges.	90,000.00	<b>0.00</b> 118,000.00
	Sale of by products & residuals		
069	•	90,000.00	118,000.00
069 070 071	Sale of by products & residuals	90,000.00 0.00	118,000.00 0.00
069 070	Sale of by products & residuals  Township recoveries(exl. Hospital Recoveries).	90,000.00 0.00 32,573,133.11	118,000.00 0.00 22,530,387.46
069 070 071	Sale of by products & residuals  Township recoveries(exl. Hospital Recoveries).  Depreciation written back	90,000.00 0.00 32,573,133.11 0.00	118,000.00 0.00 22,530,387.46 0.00
069 070 071 072	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries). Depreciation written back Sale of Scrap.	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93
069 070 071 072 073	Sale of by products & residuals  Township recoveries(exl. Hospital Recoveries).  Depreciation written back  Sale of Scrap.  Receipt under loss of profit policy.	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00
069 070 071 072 073 074	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries). Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy.	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00 0.00
069 070 071 072 073 074	Sale of by products & residuals  Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap.  Receipt under loss of profit policy.  Receipts under MBD/Fire Policy.  Management development programme.	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00 0.00
069 070 071 072 073 074 075	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries). Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy. Management development programme. Management Fee - Misc (NVVN)	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00 0.00 0.00
069 070 071 072 073 074 075 076	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries). Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy. Management development programme. Management Fee - Misc (NVVN)	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 0.00 51,771,578.49	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00 0.00 0.00 0.00
069 070 071 072 073 074 075 076 077 078	Sale of by products & residuals  Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap.  Receipt under loss of profit policy.  Receipts under MBD/Fire Policy.  Management development programme.  Management Fee - Misc (NVVN)  Others	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 51,771,578.49 0.00	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00 0.00 0.00 115,418,721.01 0.00
069 070 071 072 073 074 075 076 077 078 079	Sale of by products & residuals  Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap.  Receipt under loss of profit policy.  Receipts under MBD/Fire Policy.  Management development programme.  Management Fee - Misc (NVVN)  Others	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 51,771,578.49 0.00 301,521,785.10	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00 0.00 0.00 0.00 115,418,721.01 0.00 257,016,760.40
069 070 071 072 073 074 075 076 077 078 079 080	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy. Management development programme. Management Fee - Misc (NVVN) Others  Total (Miscellaneous Income)	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 51,771,578.49 0.00 301,521,785.10 0.00	118,000.00
069 070 071 072 073 074 075 076 077 078 079 080 081	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy. Management development programme. Management Fee - Misc (NVVN) Others  Total (Miscellaneous Income)  Details of Provision written back others	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 51,771,578.49 0.00 301,521,785.10 0.00	118,000.00 0.00 22,530,387.46 0.00 118,949,651.93 0.00 0.00 0.00 0.00 115,418,721.01 0.00 257,016,760.40 0.00
069 070 071 072 073 074 075 076 077	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy. Management development programme. Management Fee - Misc (NVVN) Others  Total (Miscellaneous Income)  Details of Provision written back others Doubtful debts	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 51,771,578.49 0.00 301,521,785.10 0.00 0.00	118,000.00
069 070 071 072 073 074 075 076 077 078 079 080 081 082	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy. Management development programme. Management Fee - Misc (NVVN) Others  Total (Miscellaneous Income)  Details of Provision written back others Doubtful debts Doubtful Loans, Advances and Claims	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 51,771,578.49 0.00 301,521,785.10 0.00 0.00 0.00 0.00	118,000.00
069 070 071 072 073 074 075 076 077 078 079 080 081 082 083	Sale of by products & residuals Township recoveries(exl. Hospital Recoveries).  Depreciation written back Sale of Scrap. Receipt under loss of profit policy. Receipts under MBD/Fire Policy. Management development programme. Management Fee - Misc (NVVN) Others  Total (Miscellaneous Income)  Details of Provision written back others Doubtful debts Doubtful Loans, Advances and Claims Doubtful Construction Advances	90,000.00 0.00 32,573,133.11 0.00 217,087,073.50 0.00 0.00 0.00 0.00 51,771,578.49 0.00 301,521,785.10 0.00 0.00 0.00 0.00 0.00	118,000.00

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NOT	E NO. 38 TO THE FSOTHER INCOME		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
880	Unserviceable capital works	0.00	0.00
089	Other Obligation including Arbitration	0.00	0.00
090	Shortage in Fixed Assets	0.00	0.00
091	Diminution in value of Investment	0.00	0.00

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### RIHAND SUPER THERMAL POWER STATION

011

NOTE NO. 38A TO THE FS--FUEL COST ( Amount in ₹) 31.03.2022 For the Year ended 31.03.2023 001 **FUEL COST** 0.00 0.00 002 Coal 0.00 0.00 003 Captive 0.00 0.00 004 Other than captive 34,092,322,865.30 30,357,469,404.43 005 Gas 0.00 0.00 006 Naptha 0.00 0.00 007 Oil 422,532,356.80 286,119,163.76 800 Biomass Pellets & Others 0.00 0.00 009 0.00 0.00 010 Total 34,514,855,222.10 30,643,588,568.19

0.00

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#### NOTE NO. 39 TO THE FS--EMPLOYEE BENEFITS EXPENSE ( Amount in ₹ ) For the Year ended 31.03.2023 31.03.2022 **EMPLOYEE BENEFITS EXPENSE** 001 0.00 0.00 002 Salaries and wages 1,521,094,969.69 1,545,790,249.09 003 Contribution to provident and other funds 203,254,370.35 207,134,289.14 004 Unwinding of deferred payroll expense 8,416,475.20 10,256,372.76 005 203,775,030.45 185,590,759.88 Staff welfare expenses 006 Less: Expenses transferred to Consultancy group 0.00 0.00 007 0.00 0.00 800 **Sub Total** 1,936,540,845.69 1,948,771,670.87 009 Less: Employee benefits expense allocated to fuel 124,169,760.51 112,502,448.72 inventory Less: Transferred/Allocated to development of 010 0.00 0.00 coal mines 011 Less: Others 0.00 0.00 0.00 0.00 012 Less: Transferred to fly ash utilisation reserve fund 013 Less: Transferred to CSR Expenses 0.00 0.00 014 3,276,040.25 Reimbursements for employees on secondment 3,377,875.77 Less: Transferred to expenditure during 015 24,926,059.94 31,691,938.82 construction period (net)- Note 43 016 Less: Transfer to Govt of Jharkhand A/c as 0.00 0.00 recoverable 018 0.00 0.00 019 **TOTAL** 1,777,403,106.11 1,807,965,286.44 020 0.00 Managerial Remuneration paid/ payable to 0.00 **Directors included above (except for Directors** fee which is included in Note 42) 0.00 021 Salaries and wages 0.00 022 Contribution to provident and other funds 0.00 0.00 023 Staff welfare expenses 0.00 0.00 024 Directors fee 0.00 0.00

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NOT	E NO. 40 TO THE FSFINANCE COSTS		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
001	FINANCE COSTS	0.00	0.00
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	731,574,881.93	710,804,516.35
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	40,412,501.47	19,995,984.52
006	Rupee term loans	450,875,180.00	438,724,318.00
007	Public deposits	0.00	0.00
800	Foreign currency bonds/notes	99,701,512.71	316,443,493.96
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	11,815,161.51	79,228,121.55
011	Commercial Papers	0.00	0.00
012	Sub Total	1,334,379,237.62	1,565,196,434.38
013	Interest on non financial items	0.00	0.00
014	Other Borrowing Costs	0.00	0.00
015	Bonds servicing & public deposit exp.	858,707.62	863,783.14
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	129,975.15	1,126,265.00
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	Sub Total (Other Borrowing cost)	988,682.77	1,990,048.14
027		0.00	0.00
028	Exchange differences regarded as an adjustment to borrowing costs	16,291,816.52	-2,773,694.67
029	Sub Total	1,351,659,736.91	1,564,412,787.85
030	Less: Transferred to Expenditure during construction period (net) - Note 43	67,839,767.20	98,307,037.97
031	Less: Transferred to development of coal mines- Note 43A	0.00	0.00
032		0.00	0.00
034	Total	1,283,819,969.71	1,466,105,749.88

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NOT	E NO. 41 TO THE FSDEPRECIATION AND AMOR	( Amount in ₹ )	
	For the Year ended	31.03.2023	31.03.2022
001	Depreciation and amortization expenses	0.00	0.00
002	On property, plant and equipment- Note 2	4,896,131,231.52	4,722,518,393.06
003	On investment property	0.00	0.00
004	On intangible assets- Note 4	28,393.75	0.00
005		0.00	0.00
006	Sub-total	4,896,159,625.27	4,722,518,393.06
007	Less:	0.00	0.00
800	Allocated to fuel inventory	380,700,405.43	374,595,518.15
009	Transferred to Expenditure during Construction Period (net)- Note 43	659.26	0.00
010		0.00	0.00
011	Transferred/Allocated to development of coal mines	0.00	0.00
012	Adjustment with deferred revenue from deferred foreign currency fluctuation	207,462,000.00	165,193,000.00
013	_	0.00	0.00
015	Total	4,307,996,560.58	4,182,729,874.91

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	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
001	OTHER EXPENSES	0.00	0.00
002	Power charges	36,602,545.00	31,976,053.83
003	Less: Recovered from contractors & employees	16,759,983.93	18,059,198.89
004	Sub-Total(Power Charges)	19,842,561.07	13,916,854.94
005	Water charges	139,871,225.00	139,871,225.00
006	Stores consumed	72,975,803.55	52,633,011.12
007	Rent	0.00	0.00
008	Less:Recoveries	0.00	0.00
009	Sub-Total (Rent)	0.00	0.00
010	Cost of captive coal produced	0.00	0.00
011	Repairs & maintenance	0.00	0.00
012	Buildings	158,149,415.92	129,376,643.93
013	Plant & machinery	0.00	0.00
014	Power stations	2,228,227,417.39	1,746,499,355.61
015	Construction equipment	0.00	0.00
016	Others	133,139,689.40	106,882,579.98
017	Sub-total (Repairs & maintenance)	2,519,516,522.71	1,982,758,579.52
017	Load Dispatch Center Charges	13,176,411.00	25,361,760.00
021	Insurance	176,259,470.09	141,466,994.50
021	Interest to beneficiaries	0.00	0.00
023	Rates and taxes	-6,259,316.14	14,847,960.99
023		-0,239,310.14	0.00
024	Water cess & environment protection cess		
025	Training & recruitment expenses	2,049,738.99	688,607.70
	Less: Receipts	0.00	0.00
027	Sub-total (Training and recruitment expenses)	2,049,738.99	688,607.70
028	Communication expenses	18,055,262.15	21,264,678.98
029	Inland Travel	73,825,041.75	66,788,667.74
030	Foreign Travel	153,377.00	0.00
031	Tender expenses	0.00	0.00
032	Less: Receipt from sale of tenders	0.00	0.00
033	Sub-total (Tender expenses)	0.00	0.00
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	0.00	0.00
039	Sub-total (Payment to Auditors)	715 426 60	0.00
040	Advertisement and publicity	715,426.60	1,007,008.21
041	Electricity duty	0.00	0.00
042	Security expenses	450,957,342.53	375,343,967.09
043	Entertainment expenses	26,443,229.39	25,139,954.44
044	Expenses for guest house	20,529,003.23	18,821,757.77
045	Less:Recoveries	5,102,224.90	2,432,785.40
046	Sub-Total (Guest house expenses)	15,426,778.33	16,388,972.37
047	Education expenses	60,990,719.00	58,099,926.00
049	Donations	0.00	0.00

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NOT	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
050	Ash utilisation & marketing expenses	1,205,661,111.07	796,403,425.57
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	85,099,069.19	2,058,930.20
054	Legal expenses	25,564,410.00	15,869,702.68
055	EDP hire and other charges	9,686,180.09	778,677.16
056	Printing and stationery	2,413,162.68	1,845,738.55
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	36,342,493.81	25,296,051.88
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062	LOSS ON FAIR VALUATION OF NON- CURRENT TRADE RECEIVABLE AT AMORTISED COST	0.00	0.00
063	Cost of Hedging	0.00	0.00
064	Derivatives MTM loss/gain (Net)	0.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	15,280,472.25	-89,322,683.55
066	Transport Vehicle running expenses	1,883,079.38	1,160,422.83
067	Horticulture Expenses	82,919,539.21	63,583,840.61
068	Hire charges- helicopter/aircraft.	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072	•	0.00	0.00
073	Miscellaneous expenses	54,556,145.78	55,867,107.84
074	Loss on disposal/write-off of PPE	81,328,604.99	68,736,584.56
075	Sub-Total	5,184,733,861.47	3,877,855,966.93
076	Less: Other expenses allocated to fuel inventory	584,991,830.30	588,057,845.97
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	25,183,231.73	73,498,661.01
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	0.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	0.00	58,647,288.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 43	2,525,818.02	-2,659,409.99
083	Less: Transfer to Govt of Jharkhand A/c as recoverable	0.00	0.00
084	Net (Generation, Administration and Other expenses)	4,572,032,981.42	3,160,311,581.94
085	Corporate Social Responsibility Expenses	35,175,677.26	98,681,095.39
086	Less: Grants-in-aid	0.00	0.00
087	Sub-total (Corporate Social Responsibility Expenses)	35,175,677.26	98,681,095.39
088	Provisions	0.00	0.00
089	Doubtful Debts	0.00	0.00
090	Doubtful loans, advances and claims	0.00	0.00
091	Doubtful Construction Advances	0.00	0.00
092	Shortage in stores	222,450.81	1,655,918.65

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NOT	E NO. 42 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
093	Obsolete/Dimunition in the value of surplus stores	10,612,444.94	12,120,326.93
094	Shortage in construction stores	88,397.16	1,469,730.55
095	Dimunition in value of long term investments	0.00	0.00
096	Shortage in Fixed assets	0.00	0.00
097	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
098	Unserviceable capital works	0.00	0.00
099	Tariff Adjustment	154,854,000.00	147,770,000.00
100	Others:	0.00	0.00
101	(i) Provision for arbitration cases	418,352.00	418,352.00
102	(ii) Other provisions	0.00	0.00
103	Total (Provisions)	166,195,644.91	163,434,328.13
104	_	0.00	0.00
106	Total	4,773,404,303.59	3,422,427,005.46
107		0.00	0.00
108	Breakup of miscellaneous expenses.	0.00	0.00
110	Hire charges of office equipment	2,178,920.46	1,714,504.43
112	Operating expenses of construction equipment	0.00	0.00
113	Operating expenses of D.G. sets	0.00	0.00
114	Furnishing expenses	253,934.89	111,933.41
115	Subscription to trade and other associations.	0.00	0.00
117	Visa and entry permit charges	0.00	0.00
118	Tree plantation expNTPC Land	0.00	0.00
119	Research & development expenses .	0.00	0.00
120	Less : Grants received for Research & develoment expenses.	0.00	0.00
121	Sub-total (Research & development expenses)	0.00	0.00
122	Bank charges	90,956.68	57,713.83
123	Business Development Expenditure	0.00	0.00
124	Surcharge (NVVN)	0.00	0.00
125	Power Trading Expenses	30,539,939.00	23,017,240.00
126	Brokerage & commission	8,616,631.00	8,510,225.90
130	Books and periodicals	408,733.00	61,430.00
131	Claims/advances written off	0.00	0.00
132	Stores written off	0.00	0.00
133	Survey &Investigation expenses written off	0.00	2,987,667.50
134	Others	12,467,030.75	19,406,392.77
135	Total	54,556,145.78	55,867,107.84
136		0.00	0.00
137		0.00	0.00
138		0.00	0.00

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NOT	E NO. 43 TO THE FSEXPENDITURE DURING CONST	RUCTION PERIOD (NET)	( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
001	EXPENDITURE DURING CONSTRUCTION PERIOD (NET)	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	26,501,611.63	21,286,958.63
004	Contribution to provident and other funds	3,509,615.20	2,431,771.71
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	1,680,711.99	1,207,329.60
007	Total (A)	31,691,938.82	24,926,059.94
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	9,928,869.03	5,668,439.23
011	Foreign currency term loans	26,164,411.47	3,847,461.50
012	Rupee term loans	16,080,739.00	12,081,882.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	74,018,223.04
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	129,975.15	1,126,265.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	3,705,070.96	1,564,768.20
027	Exchange differences regarded as adjustment to interest cost	11,830,701.59	-1.00
028	Total (B)	67,839,767.20	98,307,037.97
029		0.00	0.00
030	C. Depreciation and amortisation	659.26	0.00
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	314,305.00	872,302.00
033	Less: Recovered from contractors & employees	39,741.55	6,316,951.40
034	Sub-total(Net power charges)	274,563.45	-5,444,649.40
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	456.75	0.00
041		0.00	0.00
042	Insurance	0.00	0.00

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NOT	NOTE NO. 43 TO THE FSEXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)			
	For the Year ended	31.03.2023	31.03.2022	
043	Rates and taxes	108.00	93.60	
044	Communication expenses	463,943.00	194,837.00	
045	Travelling expenses	1,173,914.46	863,550.68	
046	Tender expenses	0.00	0.00	
047	Less: Income from sale of tenders	0.00	0.00	
048	Sub-total (Net tender expenses)	0.00	0.00	
049	Advertisement and publicity	0.00	0.00	
050	Security expenses	0.00	0.00	
051	Entertainment expenses	109,860.70	82,552.00	
052	Guest house expenses	0.00	0.00	
053	Less: Receipt from guest house	0.00	0.00	
054	Sub-total (Net Guest House Expenses)	0.00	0.00	
055	Education expenses	0.00	0.00	
056	Brokerage & Commission	0.00	0.00	
057	Books and periodicals	0.00	0.00	
058	Community development expenses	0.00	0.00	
059	Professional charges and consultancy fee	0.00	0.00	
060	Legal expenses	0.00	0.00	
061	EDP Hire and other charges	0.00	0.00	
062	Printing and stationery	19,534.00	0.00	
063	Miscellaneous expenses	483,437.66	1,644,206.13	
064	Total (D)	2,525,818.02	-2,659,409.99	
065	Total (A+B+C+D)	102,058,183.30	120,573,687.92	
066	E. Less: Other Income	0.00	0.00	
067	Interest from	0.00	0.00	
068	Indian banks	0.00	0.00	
069	Foreign banks	0.00	0.00	
070	Others	0.00	0.00	
071	Contractors	0.00	0.00	
072	Hire charges	0.00	0.00	
073	Sale of scrap	0.00	0.00	
074	Exchange Differences	0.00	0.00	
075	Miscellaneous income	104,102.76	96,735.00	
076	TOTAL (E)	104,102.76	96,735.00	
077	F. Net actuarial gain/loss OCI	-397,461.79	85,940.56	
078		0.00	0.00	
079	GRAND TOTAL (A+B+C+D-E+F)	101,556,618.75	120,562,893.48	
080		0.00	0.00	
081	* Balance carried to Capital Work-in-progress - (Note 3)	101,556,618.75	120,562,893.48	

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NOT	E NO. 43A TO THE FSEDC- COAL MINING		( Amount in ₹ )
	For the Year ended	31.03.2023	31.03.2022
001	EDC- Coal Mining	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	Total (A)	0.00	0.00
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	Total (B)	0.00	0.00
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	Sub-total(Net power charges)	0.00	0.00
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	0.00
042	Insurance	0.00	0.00
043	Rates and taxes	0.00	0.00

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( Amount in ₹ ) NOTE NO. 43A TO THE FS--EDC- COAL MINING For the Year ended 31.03.2023 31.03.2022 044 Communication expenses 0.00 0.00 045 Travelling expenses 0.00 0.00 0.00 0.00 046 Tender expenses Less: Income from sale of tenders 047 0.00 0.00 048 **Sub-total (Net tender expenses)** 0.00 0.00 049 Advertisement and publicity 0.00 0.00 050 Security expenses 0.00 0.00 051 **Entertainment expenses** 0.00 0.00 052 0.00 0.00 Guest house expenses 053 Less: Receipt from guest house 0.00 0.00 054 **Sub-total (Net Guest House Expenses)** 0.00 0.00 055 0.00 **Education expenses** 0.00 056 **Brokerage & Commission** 0.00 0.00 057 Books and periodicals 0.00 0.00 058 Community development expenses 0.00 0.00 059 Professional charges and consultancy fee 0.00 0.00 060 0.00 0.00 Legal expenses 061 EDP Hire and other charges 0.00 0.00 062 Printing and stationery 0.00 0.00 063 Miscellaneous expenses 0.00 0.00 064 Total (D) 0.00 0.00 065 Total (A+B+C+D) 0.00 0.00 066 E. Less: Other Income 0.00 0.00 067 Interest from 0.00 0.00 068 Indian banks 0.00 0.00 069 Foreign banks 0.00 0.00 070 Others 0.00 0.00 071 Contractors 0.00 0.00 072 Hire charges 0.00 0.00 073 Sale of scrap 0.00 0.00 074 **Exchange Differences** 0.00 0.00 075 Miscellaneous income 0.00 0.00 TOTAL (E) 076 0.00 0.00 077 F. Net actuarial gain/loss OCI 0.00 0.00 078 0.00 0.00 079 **GRAND TOTAL (A+B+C+D-E+F)** 0.00 0.00 080 0.00 0.00 081 \* Balance carried to Capital Work-in-progress -0.00 0.00

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(Note 3)





NOT	E NO. 44-A TO THE FINANCIAL STATEMENTS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	1,272.13	1,277.87
004	(b) value (in rs)	116,742,467.99	50,838,469.84
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	227.63	1,966.04
007	(b) value (in rs)	208,310,187.38	312,091,923.56
800	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	Land not in possession of the company	0.00	0.00
014	(a) area (in acres)	0.00	0.00
015	-Freehold	776.45	786.37
016	-Right of Use	72.33	72.47
017	(b) value (in rs)	0.00	0.00
018	-Freehold	71,250,885.34	14,409,326.78
019	-Right of Use	30,718,588.01	31,000,000.00
020	Right-of-use buildings pending completion of legal fomalities - value (in rs.)	0.00	0.00
021	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
022	Property, plant & equipment	13,566,754,374.00	17,596,562,343.00
023	Intangible assets	0.00	0.00
024	Details of precommissioning expenditure	0.00	0.00
025	(a) precommissioning expenses	0.00	0.00
026	(b) precommissioning income	0.00	0.00
027	(c) net precommissioning expenditure	0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	19,741,587.18	-92,096,377.22
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	282,259,548.61	154,890,055.40
064	Short Term Leases	0.00	0.00
065	A) Rent	0.00	0.00
066	Company lease accomodation - executives	0.00	0.00
067	Company lease accomodation - directors	0.00	0.00
068	Others	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

( Amount in ₹ )

NOT	E NO. 44-A TO THE FINANCIAL STATEMENTS		(Amount in ₹)
	As at	31.03.2023	31.03.2022
069	Total	0.00	0.00
101	Borrowing cost capitalised during the year	67,839,767.20	24,288,814.93
102	Revenue grants recognized during the year	0.00	0.00
103	Revenue expenditure on research and development	0.00	0.00
104	Capital expenditure on research and development.	0.00	0.00
105	Expenditure on sustainibility development - capital	1,321,815.00	0.00
106	Expenditure on csr- capital	0.00	0.00
107	Opening balance - CSR Liability	5,794,153.00	39,305,330.19
108	Paid/Adjusted during the Year out of Opening above	-1,456,484.00	36,690,803.19
109	Amount yet to be paid against Cr Year CSR Exp	1,408,871.00	-3,179,626.00
110	Closing Balance CSR- Liability (110)	5,746,540.00	-5,794,153.00
111		0.00	0.00
112		0.00	0.00
113		0.00	0.00
114		0.00	0.00
115	Disclosure under msmed act 2006.	0.00	0.00
116	(i) (a) the principal amount remaining unpaid as at year end	237,294,393.36	344,066,958.09
117	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
118	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
119	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
120	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
121	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
122	Amount of inventories recognized as an expense (including fuel)	36,118,519,159.86	31,594,433,719.35
123	Amount of inventories capitalised as overhauling assets out of 122 above	479,006,817.39	138,552,137.00
124	Amount capitalised as edc out of 122 above	0.00	0.00
133	Value of Imported Material Consumed during the Year	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	0.00	0.00
138	(ii)Land compensation cases	35,769,736.80	35,769,736.80
139	(iii)Others by state authorities towards:-	0.00	0.00
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00

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NOT	E NO. 44-A TO THE FINANCIAL STATEMENTS		( Amount in ₹ )
	As at	31.03.2023	31.03.2022
142	(c) Other demands by state authorities	4,590,000.00	4,590,000.00
143	(iv) Others by fuel companies	0.00	0.00
144	(a) Disputes related to grade slippage-third party sampling	1,346,927,154.99	521,176,520.00
145	(b) Surface transportation charges on coal	911,712,917.69	911,712,917.66
146	(c) Take or pay claim - Gas stations	0.00	0.00
147	(d) Other claims by fuel companies not acknowledged as debt	686,853,915.00	291,000,980.00
149	B.Disputed tax demands	0.00	0.00
150	(i) Income tax	0.00	0.00
151	(ii) Excise duty	3,691,823.00	3,691,823.00
152	(iii) Sales tax	146,412,646.00	145,060,360.00
153	(iv) Service tax/GST	4,225,770.93	4,080,007.53
154	(v) Entry tax	0.00	0.00
155	C. Others	183,583,292.71	240,865,291.85
156	Total	3,323,767,257.12	2,157,947,636.84
157	D. Possible reimbursement on account of contingent liabilities	0.00	0.00
158	(i) Capital works	0.00	0.00
159	(ii)Land compensation cases	0.00	0.00
160	(iii)Others (by state authorities)	0.00	0.00
161		0.00	0.00
162	(iv) Others by fuel companies	2,945,493,987.65	1,723,890,417.66
163	(v) Disputed income tax demand	0.00	0.00
164	(vi) Disputed tax demands -others	150,104,469.00	148,752,183.00
165	(vii) Others	58,203.00	118,267,099.00
167	Total	3,095,656,659.65	1,990,909,699.66
168	E.AMOUNT PAID UNDER PROTEST/ADJUSTED BY AUTHORITIES - TAX CASES	812,756.00	812,756.00
169	F.CONTINGENT ASSETS	0.00	0.00
170	Intangible under development : less than 1 year	0.00	0.00
171	Intangible under development #: 1-2 year	0.00	0.00
227	Intangible under development #: 2-3 year	0.00	0.00
277	Intangible under development #: More than 3 years	0.00	0.00
278	Capital-Work-in Progress (CWIP)	0.00	0.00
279	Projects in progress	8,960,205,455.82	6,758,466,834.90
280	Projects temporarily suspended	0.00	0.00
281		0.00	0.00
282		0.00	0.00
283	Projects in progress	0.00	0.00
284	Less than 1 year	3,744,284,084.47	4,445,877,958.44
285	1-2 years	3,074,034,597.30	1,791,003,583.98
286	2-3 years	1,738,373,963.21	268,220,634.24
287	More than 3 years	403,512,810.84	253,364,658.24
288	Sub Total (I)	8,960,205,455.82	6,758,466,834.90
289		0.00	0.00
-			

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

( Amount in ₹)

	As at	31.03.2023	31.03.2022
290	Projects temporarily suspended	0.00	0.00
291	Less than 1 year	0.00	0.00
292	1-2 years	0.00	0.00
293	2-3 years	0.00	0.00
294	More than 3 years	0.00	0.00
295	Sub Total (II)	0.00	0.00
296		0.00	0.00
380	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

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L <b>ANCE SHEET</b> As at	Note	31.03.2024	( Amount in ₹ ) 31.03.2023
	Note		
ASSETS		0.00	0.00
NON-CURRENT ASSETS		0.00	0.00
PROPERTY, PLANT & EQUIPMENT	2	48,149,067,190.98	49,621,309,183.69
CAPITAL-WORK-IN-PROGRESS	3	12,848,933,527.77	
INVESTMENT PROPERTY	4	0.00	8,960,205,455.82 0.00
INTANGIBLE ASSETS	5	745,236.92	79,793.65
INTANGIBLE ASSETS UNDER DEVELOPMENT	6	0.00	0.00
FINANCIAL ASSETS	U	0.00	0.00
I) EQUITY INVESTMENTS IN SUBSIDIARIES AND	7	0.00	0.00
JOINT VENTURES	,	0.00	0.00
II) OTHER INVESTMENTS	8	0.00	0.00
III) LOANS	9	117,068,687.39	111,577,788.06
IV) TRADE RECEIVABLES	10	0.00	0.00
V) OTHER FINANCIAL ASSETS	11	0.00	0.00
OTHER NON-CURRENT ASSETS	12	461,005,117.71	686,673,672.57
TOTAL NON-CURRENT ASSETS		61,576,819,760.77	59,379,845,893.79
		0.00	0.00
CURRENT ASSETS		0.00	0.00
INVENTORIES	13	7,732,979,740.05	7,344,113,893.60
FINANCIAL ASSETS		0.00	0.00
I) OTHER INVESTMENTS	14	0.00	0.00
II) TRADE RECEIVABLES	15	0.00	1,737,334.04
III) CASH AND CASH EQUIVALENTS	16	0.00	0.00
IV) BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS	17	0.00	0.00
V) LOANS	18	68,365,126.48	69,609,653.92
VI) OTHER FINANCIAL ASSETS	19	123,372,990.93	126,338,115.86
CURRENT TAX ASSETS (NET)		0.00	0.00
		0.00	0.00
OTHER CURRENT ASSETS	20	599,590,417.73	682,394,358.11
		0.00	0.00
TOTAL CURRENT ASSEETS		8,524,308,275.19	8,224,193,355.53
ASSETS HELD FOR SALE	21	6,036,716.90	6,037,344.90
REGULATORY DEFERRAL ACCOUNT DEBIT	22	-227,495,204.34	-43,260,292.59
BALANCES			
TOTAL ASSETS		69,879,669,548.52	67,566,816,301.63
EQUITY AND LIABILITIES		0.00	0.00
EQUITY		0.00	0.00
EQUITY SHARE CAPITAL	23	0.00	0.00
OTHER EQUITY	24	201,165,336,384.38	189,186,278,816.05
TOTAL EQUITY		201,165,336,384.38	189,186,278,816.05
		0.00	0.00
LIABILITIES		0.00	0.00
NON-CURRENT LIABILITIES		0.00	0.00
FINANCIAL LIABILITIES		0.00	0.00
I) BORROWINGS	25	0.00	0.00

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BAL	ANCE SHEET			(Amount in ₹)
	As at	Note	31.03.2024	31.03.2023
050	II) LEASE LIABILITIES	26	229,338,533.00	201,162,209.87
051	III) TRADE PAYABLES		0.00	0.00
052	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	27	0.00	0.00
053	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	27	0.00	0.00
054	IV) OTHER FINANCIAL LIABILITIES	28	42,444,386.96	55,870,227.33
055	PROVISIONS	29	0.00	0.00
056	DEFERRED TAX LIABILITIES (NET)	30	0.00	0.00
057	OTHER NON-CURRENT LIABILITIES	31	0.00	0.00
058			0.00	0.00
059	TOTAL NON-CURRENT LIABILITIES		271,782,919.96	257,032,437.20
060			0.00	0.00
061	CURRENT LIABILITIES		0.00	0.00
062	FINANCIAL LIABILITIES		0.00	0.00
063	I) BORROWINGS	32	0.00	0.00
064	II) LEASE LIABILITIES	33	14,911,924.69	14,497,699.11
065	III) TRADE PAYABLES		0.00	0.00
066	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	34	193,435,115.38	124,444,057.60
067	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	34	2,199,580,679.48	2,444,847,958.62
068	III) OTHER FINANCIAL LIABILITIES	35	5,857,083,484.21	4,716,151,347.60
069	OTHER CURRENT LIABILITIES	36	110,599,056.76	124,300,877.64
070	PROVISIONS	37	13,133,268.00	9,102,016.00
071	CURRENT TAX LIABILITIES (NET)	38	0.00	0.00
072			0.00	0.00
073	TOTAL CURRENT LIABILITIES		8,388,743,528.52	7,433,343,956.57
074			0.00	0.00
077	DEFERRED REVENUE	39	1,356,547,000.00	1,576,387,000.00
078	REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES	39A	0.00	0.00
079	INTER UNIT ACCOUNTS		-141,302,740,284.34	-130,886,225,908.19
080			0.00	0.00
081	TOTAL EQUITY AND LIABILITIES		69,879,669,548.52	67,566,816,301.63
082	Material Accounting Policies as per note 1	1	0.00	0.00
083			0.00	0.00
084	The Accompanying notes 1 to 48A form an integral part of these financial statements.		0.00	0.00
085			0.00	0.00
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	TEMENT OF PROFIT AND LOSS  For the Year ended	Note	31.03.2024	( Amount in ₹ ) 31.03.2023
001	Revenue	14010	0.00	0.00
001	Revenue from operations	40	61,383,428,894.96	58,630,687,159.09
002	Other income	41	370,257,225.47	484,325,517.38
005	Total Income	<del></del>	61,753,686,120.43	59,115,012,676.47
003	Expenses		0.00	0.00
008	Fuel including cost of captive coal	42	35,194,069,965.70	34,514,855,222.10
009	Employee benefits expense	43	1,711,955,663.11	1,777,403,106.11
010	Electricity purchased for trading	10	0.00	0.00
011	Finance costs	44	1,002,897,400.49	1,283,819,969.71
012	Depreciation, amortization and impairment expenses	45	4,670,852,246.89	4,307,996,560.58
013	2 op. column, allo lization and impairmont expenses	.0	0.00	0.00
014	Other expenses	46	6,154,530,321.04	4,827,491,739.59
015	CC expenses charge to revenue	.0	860,491,973.00	900,990,130.26
016	Less: Unit expenses transferred to CC		0.00	0.00
017	Total expenses		49,594,797,570.23	47,612,556,728.35
020	Profit before exceptional items & tax		12,158,888,550.20	11,502,455,948.12
021	Exceptional items		0.00	0.00
024	Profit before tax		12,158,888,550.20	11,502,455,948.12
027	Tax expense:		0.00	0.00
028	Current tax		0.00	0.00
031	Deferred tax		0.00	0.00
034			0.00	0.00
035	Total Tax expense		0.00	0.00
036	Profit for the period before regulatory deferral		12,158,888,550.20	11,502,455,948.12
	account balances			
037	Movement in regulatory deferral account balances		0.00	0.00
038	Regulatory deferred account - deferred		0.00	0.00
039	Others		-184,234,911.75	-1,024,362,313.78
040	Tax impact on regulatory deferral account balances		0.00	0.00
041	Net movement in regulatory deferral account balances (net of tax)		-184,234,911.75	-1,024,362,313.78
042	Profit for the period/ year		11,974,653,638.45	10,478,093,634.34
055	Other comprehensive income		0.00	0.00
056	(A) Items that will not be reclassified to profit or loss		0.00	0.00
057	- Net gains/(losses) on fair value of equity instruments through other comprehensive income		0.00	0.00
058	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
059	- Net acturial gains/(losses) on defined benefit plans		4,403,929.88	-19,544,151.77
060	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
064			0.00	0.00
065	Other comprehensive income for the year, net of income tax	_	4,403,929.88	-19,544,151.77
070			0.00	0.00
071		_	0.00	0.00
072	Total Comprehensive Income for the year		11,979,057,568.33	10,458,549,482.57

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#### STATEMENT OF PROFIT AND LOSS

( Amount in ₹)

	For the Year ended	Note	31.03.2024	31.03.2023
086			0.00	0.00
087	Earnings per equity share:		0.00	0.00
088	Basic & Diluted		0.00	0.00
089	Material Accounting Policies		0.00	0.00
090			0.00	0.00
091	The accompanying notes 1 to 48 form an integr	al part	0.00	0.00
	of these financial statements.			

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OTHER COMPREHENSIVE INCOME ( Amount in ₹) For the Year ended 31.03.2024 31.03.2023 001 0.00 0.00 002 0.00 0.00 Other comprehensive income 003 (A) Items that will not be reclassified to profit 0.00 0.00 or loss 004 - Net gains/(losses) on fair value of equity 0.00 0.00 instruments through other comprehensive income Income tax on above that will not be reclassified to 005 0.00 0.00 profit or loss 006 - Net acturial gains/(losses) on defined benefit 4,403,929.88 -19,544,151.77 Income tax on above that will not be reclassified to 007 0.00 0.00 profit or loss 800 0.00 0.00 009 (B) Items that will be reclassified to profit or loss 0.00 0.00 Income tax relating to above items that will be 0.00 0.00 010 reclassified to profit or loss 011 0.00 0.00 012 Other comprehensive income for the year, net 4,403,929.88 -19,544,151.77 of income tax 013 0.00 0.00 Total comprehensive income for the year (A+B) 014 4,403,929.88 -19,544,151.77

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#### Note forming part of Balance Sheet NOTE NO. 2 TO THE FS-NCA-PROPERTY, PLANT AND EQUIPMENT Business Area :1005

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	355016843.25	0.00	0.00	355016843.25	0.00	0.00	0.00	0.00	355016843.25	355016843.25
4 Right of Use	678137733.98	32546505.48	0.00	710684239.46	99423606.49	23536626.93	0.00	122960233.42	587724006.04	578714127.49
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of use - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	636337614.70	0.00	0.00	636337614.70	180157124.43	23626463.25	0.00	203783587.68	432554027.02	456180490.27
8 Building:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	1869800747.79	980.66	0.00	1869801728.45	501564138.50	63390639.75	0.00	564954778.25	1304846950.20	1368236609.29
11 Others	2574811225.22	91130304.03	(201140.39)	2665740388.86	673767508.77	177207020.14	0.00	850974528.91	1814765859.95	1901043716.45
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	231168.13	832000.00	0.00	1063168.13	231168.13	624000.00	0.00	855168.13	208000.00	0.00
14 Water Supply, drainage & sewerage system	546222044.04	913668.44	0.00	547135712.48	171339645.41	24175812.19	0.00	195515457.60	351620254.88	374882398.63
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	1354309444.15	0.00	(2292175.64)	1352017268.51	487460446.31	57038141.70	0.00	544498588.01	807518680.50	866848997.84
17 Railway siding	1528212.48	0.00	0.00	1528212.48	776912.19	64482.46	0.00	841394.65	686817.83	751300.29
18 Earth dam reservoir	1456921.40	0.00	0.00	1456921.40	0.00	0.00	0.00	0.00	1456921.40	1456921.40
19 Plant and machinery(including associated civil works) Owned Asset	76960566665.36	3668820918.91	(481206360.20)	80148181224.07	33744072418.19	4821123153.64	(336854991.71)	88228340580.12	41919840643.95	43216494247.17



#### Note forming part of Balance Sheet NOTE NO. 2 TO THE FS-NCA-PROPERTY, PLANT AND EQUIPMENT Business Area :1005

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
20 Plant and machinery(including associated civil works) -Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Furniture and fixtures	176641068.54	5613399.10	0.00	182254467.64	88220455.66	8592917.30	0.00	96813372.96	85441094.68	88420612.88
22 Assets under 5 Km Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Vehicles including speedboats / helicopter- Owned	9034115.35	2809838.00	0.00	11843953.35	3879093.90	878459.75	0.00	4757553.65	7086399.70	5155021.45
24 Vehicles including speedboats / helicopter - Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Office equipment	100813473.54	132053544.87	4313542.89	237180561.30	66352770.64	13950822.72	1220794.20	81524387.56	155656173.74	34460702.90
26 EDP, WP machines and satcom equipment	125778344.32	8349424.51	(22304907.51)	111822861.32	70281077.93	21296402.28	(13488215.74)	78089264.47	33733596.85	55497266.39
27 Construction equipments	65110895.86	0.00	0.00	65110895.86	31101580.64	2027269.30	0.00	33128849.94	31982045.92	34009315.22
28 Electrical Installations	331078040.99	0.00	0.00	331078040.99	161206158.08	20440092.85	0.00	181646250.93	149431790.06	169871882.91
29 Communication equipments	32811847.30	1102000.00	9617420.83	43531268.13	25087864.37	3179304.32	5088397.55	33355566.24	10175701.89	7723982.93
30 Hospital equipments	36163197.06	419979.92	0.00	36583176.98	20726067.81	2773084.36	0.00	23499152.17	13084024.81	15437129.25
31 Laboratory and workshop equipments	150982759.77	3755889.57	0.00	154738649.34	59875142.09	8626148.94	0.00	68501291.03	86237358.31	91107617.68
32 Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Assets of Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 (Less):-Adjusted from fly ash utilisation reserve fund	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	86006832363.23	3948348453.49	(492073620.02)	89463107196.70	36385523179.54	5272550841.88	(344034015.70)	11314040005.72	48149067190.98	49621309183.69
Grand Total Prev Year (Tangible)	82762860205.13	3815958810.11	(571986652.01)	86006832363.23	32238221992.08	4896131231.52	(748830044.06)	86385523179.54	49621309183.69	50524638213.05

Details of Adjustments of Gross Block and Depreciation/Amortization									
Particulars	Gross	Block	Depreciatio	n/Amortization					
	Tangible As At: 31.03.2024	Tangible As At: 31.03.2023	Tangible As At: 31.03.2024	Tangible As At: 31.03.2023					
Disposal of assets	(4490895.36)	(11218922.70)	(4490895.36)	(11218922.70)					
Retirement of assets	(473215802.77)	(832440819.19)	(331266377.67)	(738408039.74)					
Cost adjustments	(5073602.86)	254681373.92	0.00	0.00					
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00					
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00					
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00					
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00					
Transfer in /out because of Inter Unit transfers	(10213221.96)	26964560.27	(9196645.60)	796918.38					
Others	919902.93	(9972844.31)	919902.93	0.00					
TOTAL	(492073620.02)	(571986652.01)	(344034015.70)	(748830044.06)					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

## Note forming part of Balance Sheet NOTE NO. 3 TO THE FS-NCA-CAPITAL WORK-IN-PROGRESS **Business Area: RIHAND SUPER THERMAL POWER STATION**

SI No	Asset Class	As At 01.04.2023	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2024
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads					
4	Piling and foundation					
5	Buildings:					
6	Main plant					
7	Others	128058530.12	39533683.72	(1320674.48)		166271539.36
8	Temporary erection					
9	Water supply, drainage and sewerage system		913668.44	(913668.44)		
10	Hydraulic works, barrages, dams, tunnels and power channel					
11	MGR track and signalling system					
12	Railway siding					
13	Earth dam reservoir					
14	Plant and equipment	8716518065.07	6303220680.72	(1025443862.29)	1514617344.31	12479677539.19
15	Furniture and fixtures					
16	Vehicles					
17	Office equipment		153600.00			153600.00
18	EDP/WP machines & satcom equipment					
19	Construction equipments		4400000.87			4400000.87
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop equipments					
24	Assets under 5Km Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey,Investigation,Consultancy & Supervision Cha	391613.00	(391613.00)			
28	Difference in exchange on foreign currency loans					

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SI No	Asset Class	As At 01.04.2023	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2024
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commissioning expenses (net)					
31	ExpPendAlloca-oth ex attribut Project					
32	Expenditure During Construction Period (net)*		180736283.64	2202066.94		182938350.58
33	LESS : Allocated to related works		182938350.58			182938350.58
34	LESS : Provision for Unservicable works					
35	Construction stores (At Cost)					
36	Steel	2592059.75		(461242.18)		2130817.57
37	Cement	1723908.87		(9323.78)		1714585.09
38	Others	111009676.17	20465330.00	65006759.50		196481765.67
39	Sub-total	115325644.79	20465330.00	64536193.54		200327168.33
40	LESS : Provision for shortages	88397.16		1807922.82		1896319.98
41	Sub-total	115237247.63	20465330.00	62728270.72		198430848.35
42	Total CWIP	8960205455.82	6366093283.81	(962747867.55)	1514617344.31	12848933527.77
43						
44						
45	PREVIOUS YEAR TOTAL	6758466834.90	4893710462.03	(1270467177.70)	1167430596.92	8960205455.82

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) :

0.00

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
INVESTEMENT PROPERTY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Free Hold Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 ROU Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Investment Property)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total Prev Year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

क्षापर महाप्रधानक (वाणिपिका) Add. General Manager (Commercial) न दे भी की तिनिदेव/MIFC LIMITED **Business Area:1005** 

Details of Adjustments of Gross Block and Depreciation/Amortization							
Particulars	Gross	Block	Depreciatio	n/Amortization			
	Investment Property As At: 31.03.2024	Investment Property As At: 31.03.2023	Investment Property As At: 31.03.2024	Investment Property As At: 31.03.2023			
Disposal of assets	0.00	0.00	0.00	0.00			
Retirement of assets	0.00	0.00	0.00	0.00			
Cost adjustments	0.00	0.00	0.00	0.00			
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00			
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00			
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00			
Others	0.00	0.00	0.00	0.00			
TOTAL	0.00	0.00	0.00	0.00			

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 -Software	4866792.26	985404.00	0.00	5852196.26	4786998.61	319960.73	0.00	5106959.34	745236.92	79793.65
Grand Total (Intangible)	4866792.26	985404.00	0.00	5852196.26	4786998.61	319960.73	0.00	5106959.34	745236.92	79793.65
Grand Total Prev Year (Intangible)	4773867.26	92925.00	0.00	4866792.26	4758604.86	28393.75	0.00	4786998.61	79793.65	15262.40

**Business Area:1005** 

Details of Adjustmen	Details of Adjustments of Gross Block and Depreciation/Amortization						
Particulars	Gross	Block	Depreciation	n/Amortization			
	InTangible As At: 31.03.2024	InTangible As At: 31.03.2023	InTangible As At: 31.03.2024	InTangible As At: 31.03.2023			
Disposal of assets	0.00	0.00	0.00	0.00			
Retirement of assets	0.00	0.00	0.00	0.00			
Cost adjustments	0.00	0.00	0.00	0.00			
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00			
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00			
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00			
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00			
Others	0.00	0.00	0.00	0.00			
TOTAL	0.00	0.00	0.00	0.00			

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

#### Note forming part of Balance Sheet NOTE NO. 6 TO THE FS-NCA-INTANGIBLE ASSETS UNDER DEVELOPMENT Business Area: RIHAND SUPER THERMAL POWER STATION

SI No	Asset Class	As At 01.04.2023	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2024
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Others					
4	Exploration and Evaluation Expentiture - Coal Mini					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) :

0.00



NOTE NO	7 TO THE ES-NC	Δ-FΩUITY INVEST	MENTS IN SURSI	DIARIES AND JO	INT VENTURES	( Amount in ₹ )

	As at	No. of shares	Face value	31.03.2024	31.03.2023
001	NON CURRENT INVESTMENTS- INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES			0.00	0.00
012	EQUITY INSTRUMENTS - UNQUOTED-(FULLY PAID UP UNLESS OTHERWISE STATED, AT COST)			0.00	0.00
013	SUBSIDIARY COMPANIES			0.00	0.00
014	PATRATU VIDYUT UTPADAN NIGAM LTD.			0.00	0.00
015	NTPC ELECTRIC SUPPLY COMPANY LTD.			0.00	0.00
016	NTPC VIDYUT VYAPAR NIGAM LTD.			0.00	0.00
017	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
018	KANTI BIJLEE UTPADAN NIGAM LTD.			0.00	0.00
019	BHARTIYA RAIL BIJLEE COMPANY LTD.			0.00	0.00
020	NTPC MINING LTD (NML)			0.00	0.00
021	THDC INDIA LTD.			0.00	0.00
022	NEEPCO LTD.			0.00	0.00
023	NTPC EDMC Waste Solutions Pvt Ltd			0.00	0.00
024	NTPC Renewables Energy Ltd			0.00	0.00
025	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
026	NTPC Green Energy Limited			0.00	0.00
027	Green Valley Renewable Energy Limited			0.00	0.00
028				0.00	0.00
029				0.00	0.00
030	SUB TOTAL			0.00	0.00
055	JOINT VENTURE COMPANIES			0.00	0.00
056	Utility Powertech Ltd.			0.00	0.00
057	NTPC GE Power Services Pvt.Ltd.			0.00	0.00
058	NTPC-SAIL Power Company Ltd.			0.00	0.00
059	NTPC-Tamil Nadu Energy Company Ltd.			0.00	0.00

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### NOTE NO. 7 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES (Amount in ₹)

	As at	No. of shares	Face value	31.03.2024	31.03.2023
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
061	ARAVALI POWER COMPANY PRIVATE LTD.			0.00	0.00
062	Jhabua Power Ltd.			0.00	0.00
063	NTPC BHEL POWER PROJECTS PRIVATE LTD.			0.00	0.00
064	MEJA URJA NIGAM PRIVATE LIMITED			0.00	0.00
065	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
066				0.00	0.00
067	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
068	TRANSFORMER AND ELECTRICAL KERALA LTD.			0.00	0.00
069	NATIONAL HIGH POWER TEST LABORTORY PRIVATE LTD.			0.00	0.00
070				0.00	0.00
071	CIL NTPC URJA PRIVATE LTD.			0.00	0.00
072	ANUSHAKTI VIDHYUT NIGAM LTD.			0.00	0.00
073	ENERGY EFFICIENCY SERVICES LTD.			0.00	0.00
074				0.00	0.00
075	TRINCOMALEE POWER COMPANY LTD.			0.00	0.00
076	BANGLADESH-INDIA FRIENDSHIP POWER COMPANY (PVT.) LTD.			0.00	0.00
077	HINDUSTAN URVARAK & RASAYAN LIMITED			0.00	0.00
078	KONKAN LNG LTD			0.00	0.00
085	SUB TOTAL			0.00	0.00
109	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
110	TOTAL (NET OF IMPAIRMENT) OF JV			0.00	0.00
111	Gross Total of Investments			0.00	0.00
134	Total			0.00	0.00
135	Details of Investments			0.00	0.00
136	Aggregate amount of Unquoted Investments			0.00	0.00

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### NOTE NO. 7 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES (Amount in ₹)

As at	No. of shares	Face value	31.03.2024	31.03.2023
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
Valuation of Inv	estments as per Note 1.		0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00

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### NOTE NO. 8 TO THE FS-NCA-OTHER INVESTMENTS

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2024	31.03.2023
001	Non-current financial assets (investments)			0.00	0.00
006	Long Term - Trade			0.00	0.00
007	Equity Instruments (fully paid up-unless otherwise stated)			0.00	0.00
800	Quoted			0.00	0.00
009	JOINT VENTURE COMPANIES			0.00	0.00
010	PTC India Ltd.			0.00	0.00
070	INTERNATIONAL COAL VENTURES PRIVATE LTD.			0.00	0.00
)75	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
098	Jhabua Power Limited-8.5% Non convertible debentures - private placement			0.00	0.00
110	COOPERATIVE SOCIETIES			0.00	0.00
111				0.00	0.00
112	SUB TOTAL			0.00	0.00
113	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
115	TOTAL			0.00	0.00
120				0.00	0.00
146	NTPC EMPLOYEES CONSUMERS AND THRIFT CO-OPERATIVE SOCIETY LTD. KORBA			0.00	0.00
147	NTPC EMPLOYEES CONSUMERS AND THRIFT COOPERATIVE SOCIETY LTD. RSTPP			0.00	0.00
148	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. FARAKKA			0.00	0.00
49	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. VINDHYACHAL			0.00	0.00
150	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. ANTA			0.00	0.00
151	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. KAWAS			0.00	0.00
152	NTPC Employees Consumers Cooperative Society Ltd. Kaniha	9		0.00	0.00

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NOT	E NO. 9 TO THE FS-NCA-LOANS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	LOANS (NON CURRENT)	0.00	0.00
004	RELATED PARTIES	0.00	0.00
005	SECURED	0.00	0.00
006	UN-SECURED	0.00	0.00
007	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
800	CREDIT IMPAIRED	0.00	0.00
009		0.00	0.00
010	EMPLOYEES(INCLUDING ACCRUED INTEREST)	0.00	0.00
011	SECURED	100,515,451.47	94,523,507.55
012	UNSECURED	45,987,192.18	45,547,966.97
013	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
014	CREDIT IMPAIRED	0.00	0.00
015	LESS: EMPLOYEE LOANS DISCOUNTING	0.00	0.00
016	SECURED	22,007,280.80	22,171,388.03
017	UNSECURED	7,426,675.46	6,322,298.43
018	LOAN TO STATE GOVERNMENT IN SETTLEMENT OF DUES FROM CUSTOMERS (UNSECURED)	0.00	0.00
019	OTHERS	0.00	0.00
020	SECURED	0.00	0.00
021	UNSECURED	0.00	0.00
022	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
023	CREDIT IMPAIRED	0.00	0.00
024	LESS: ALLOWANCE FOR CREDIT IMPAIRED LOANS	0.00	0.00
026	SUB TOTAL	117,068,687.39	111,577,788.06
027		0.00	0.00
028	TOTAL	117,068,687.39	111,577,788.06
029		0.00	0.00
030		0.00	0.00
031	Due from Directors and Officers of the Company	0.00	0.00
032	Directors	0.00	0.00
033	Officers	0.00	0.00
034		0.00	0.00
035	Loans to related parties include:	0.00	0.00
036	i)Key management personel	0.00	0.00
037	ii)Subsidiary companies	0.00	0.00
038	iii)Joint Venture companies	0.00	0.00
039	iv)Others	0.00	0.00
040		0.00	0.00
055	Other loans represent loans given to	0.00	0.00
056	a) APIIC	0.00	0.00
061		0.00	0.00
062	RPD	0.00	0.00
063	i)Key management personel	0.00	0.00

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**NOTE NO. 9 TO THE FS-NCA-LOANS** ( Amount in ₹) 31.03.2024 31.03.2023 As at ii)Subsidiary companies 064 0.00 0.00 iii)Joint Venture companies 065 0.00 0.00 066 iv)Others 0.00 0.00 067 Total 0.00 0.00

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### NOTE NO. 10 TO THE FS-NCA-TRADE RECEIVABLES

( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Non-current financial assets - Trade receivables	0.00	0.00
002	UNSECURED, CONSIDERED GOOD	0.00	0.00
003	CREDIT IMPAIRED	0.00	0.00
004		0.00	0.00
006	Total	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION ANNEXURE TO NOTE 9- RPD (LOANS) SUBSIDIARIES

( Amount in ₹)

As at	31.03.2024	31.03.2023
010	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 11 TO THE FS-NCA-OTHER FINANCIAL ASSETS

NOTE	NO. 11 TO THE FS-NCA-OTHER FINANCIAL ASSETS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	Other Financial Assets (non current)	0.00	0.00
002		0.00	0.00
003	Share application money pending allotment in (Subsidiary Companies) :	0.00	0.00
004	NTPC Electric Supply Company Ltd.	0.00	0.00
005	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
006	Nabinagar Power Generating Company Ltd.	0.00	0.00
007	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
800	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012	NEEPCO Ltd	0.00	0.00
013		0.00	0.00
014	Total	0.00	0.00
015	Share application money pending allotment (Joint Venture)	0.00	0.00
016	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018	NTPC-SAIL Power Company Ltd.	0.00	0.00
019	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021	Aravali Power Company Private Ltd.	0.00	0.00
022	,	0.00	0.00
023	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024	Meja Urja Nigam Private Limited	0.00	0.00
025	BF-NTPC Energy Systems Ltd.	0.00	0.00
026	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
028	Energy Efficiency Services Ltd.	0.00	0.00
029	National High Power Test Labortory Private Ltd.	0.00	0.00
030	Transfer Fig. 1 600 1 600 Labortory 1 mate Ltd.	0.00	0.00
031	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033	Hindustan Urvarak & Rasayan Limited	0.00	0.00
034	Bangladesh-India Friendship Power Company	0.00	0.00
	Private Ltd.		
035	Sub Total	0.00	0.00
036		0.00	0.00
037	Claims Recoverable	0.00	0.00
038	Finance Lease Recoverable	0.00	0.00
039	Mine Closure Deposit	0.00	0.00
040	Financial Deposit	0.00	0.00
041	_	0.00	0.00
042	Total	0.00	0.00

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	IO. 12 TO THE FS-NCA-OTHER NON-CURRENT		( Amount in ₹)
_	s at	31.03.2024	31.03.2023
	ther Non-current Assets	0.00	0.00
002		0.00	0.00
	APITAL ADVANCES	0.00	0.00
	ECURED	0.00	0.00
	nsecured	0.00	0.00
	COVERED BY BANK GUARANTEE	314,389,169.00	600,930,914.00
	OTHERS	112,549,980.49	54,522,506.49
	ONSIDERED DOUBTFUL	0.00	0.00
	ESS: ALLOWANCE FOR BAD & DOUBTFUL DVANCES _	0.00	0.00
010 <b>S</b>	ub-Total	426,939,149.49	655,453,420.49
011		0.00	0.00
012 A	dvances other than capital advances	0.00	0.00
013 S	ECURITY DEPOSITS	1,524,280.00	1,524,280.00
019 A	dvances to Related parties	0.00	0.00
022 <b>A</b>	dvances to Contractors & Suppliers	0.00	0.00
023 S	ECURED	0.00	0.00
024 U	NSECURED	0.00	0.00
025 C	ONSIDERED DOUBTFUL	0.00	0.00
	ESS: ALLOWANCE FOR BAD & DOUBTFUL DVANCES	0.00	0.00
027 <b>S</b>	ub Total	1,524,280.00	1,524,280.00
028 R	ECEIVABLE FROM MCP ESCROW A/C	0.00	0.00
029 Pi	re Paid expenses	0.00	0.00
	DVANCE TAX & TAX DEDUCTED AT SOURCE	12,506,572.01	9,747,424.13
040 LE	ESS:- PROVISION FOR CURRENT TAX	0.00	0.00
041		0.00	0.00
	ub Total	12,506,572.01	9,747,424.13
043 D	EFERRED PAYROLL EXPENSES (SECURED)	14,750,249.21	15,584,840.68
044 D	EFERRED PAYROLL EXPENSES JNSECURED)	5,284,867.00	4,362,707.27
•	ub Total	20,035,116.21	19,947,547.95
046 D	EFERRED FOREIGN CURRENCY LUCTUATION ASSET	0.00	1,000.00
049		0.00	0.00
050 <b>T</b> e	otal	461,005,117.71	686,673,672.57
051		0.00	0.00
052		0.00	0.00
062 A	dvances include amount due from the following rivate Companies in which Directors of the ompany are also Directors in such Companies	0.00	0.00
064		0.00	0.00
	TPC GE Power Services Pvt.Ltd.	0.00	0.00
066		0.00	0.00
	atnagiri Gas & Power Private Ltd.	0.00	0.00
	ravali Power Company Private Ltd.	0.00	0.00
	TPC-SCCL Global Ventures Private Ltd.	0.00	0.00
555 IN	o oool olobal volitaroo i nvato Lta.	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 12 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

( Amount in ₹)

_			
	As at	31.03.2024	31.03.2023
070	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
071	Meja Urja Nigam Private Limited	0.00	0.00
072	Nabinagar Power Generating Company Ltd.	0.00	0.00
073	National High Power Test Labortory Private Ltd.	0.00	0.00
075	CIL NTPC Urja Private Ltd.	0.00	0.00
077		0.00	0.00
078	Related Party (Adv)	0.00	0.00
079	Key Management personel	0.00	0.00
080	Subsidiary companies	0.00	0.00
081	Joint Venture companies	0.00	0.00
082	Contractors	0.00	0.00
083	Others	0.00	0.00
085		0.00	0.00
086	Total	0.00	0.00

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**NOTE NO. 13 TO THE FS-CA-INVENTORIES** ( Amount in ₹) 31.03.2024 31.03.2023 **INVENTORIES** 001 0.00 0.00 002 0.00 0.00 003 Coal 2,320,889,949.63 2,580,101,057.99 004 Fuel oil 579,514,381.49 547,439,933.51 005 Naphtha 0.00 0.00 006 Stores and spares 3,748,306,665.33 3,448,710,137.80 007 Chemicals & consumables 78,857,515.31 76,411,103.07 800 Loose tools 2,454,415.01 2,161,544.92 009 Others 1,131,368,725.79 733,319,482.94 010 0.00 0.00 011 0.00 0.00 012 **Sub Total** 7,861,391,652.56 7,388,143,260.23 013 Less: Provision for shortages 5,923,534.81 222,450.81 014 Less: Provision for obsolete/ 122,488,377.70 43,806,915.82 unservicable/dimunition in value of surplus inventory 016 0.00 0.00 017 **Total** 7,732,979,740.05 7,344,113,893.60 018 Inventories include material in transit 0.00 0.00 019 Coal 0.00 0.00 020 Fuel oil 0.00 0.00 021 Naphtha 0.00 0.00 022 Stores and spares 1,527,560.48 180,646.08 023 Chemicals & consumables 2,300,535.00 1,207,500.10 024 Loose tools 0.00 0.00 025 Others 1,104,669.12 0.00 026 0.00 0.00 028 0.00 0.00

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### NOTE NO. 14 TO THE FS-CA-OTHER INVESTMENTS

( Amount in ₹)

	As at	No. of shares	Face value	31.03.2024	31.03.2023
001	CURRENT INVESTMENTS			0.00	0.00
002	(Valuation as per Note 1)			0.00	0.00
003	Jhabua Power Limited-8.5% Non convertible debentures - private placement			0.00	0.00
033	Investment in Mutual Funds (Details as under)			0.00	0.00
034	SBI-Magnum Insta Cash Fund-DDR			0.00	0.00
035	SBI Premier Liquid Fund Super-IP-DDR			0.00	0.00
036	SBI-SHF Ultra Short Term Fund-IP-DDR			0.00	0.00
037	UTI Money Market- IP-Direct-Growth			0.00	0.00
038	IDBI-Liquid plan- Direct-Growth			0.00	0.00
039	Canara Robeco Liquid Fund Super-IP-DDR			0.00	0.00
040	Canara Robeco Treasury Advantage Fund Super-IP-DDR			0.00	0.00
041	IDBI Liquid Fund-DDR			0.00	0.00
042	SBI Premier Liquid fund-Direct DDR (Ash Fund)			0.00	0.00
043	UTI Liquid CashPlan - IP - DDR (Ash Funds)			0.00	0.00
044	IDBI Liquid Fund - DDR - (Ash Funds)			0.00	0.00
045	Baroda Liquid Fund - Direct - Growth			0.00	0.00
046				0.00	0.00
047				0.00	0.00
048	Sub Total			0.00	0.00
049				0.00	0.00
052	Unquoted Investments			0.00	0.00
054				0.00	0.00
066	TOTAL			0.00	0.00
067				0.00	0.00

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NOT	E NO. 15 TO THE FS-CA-TRADE RECEIVABLES		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	TRADE RECEIVABLES (current)*	0.00	0.00
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004	Unsecured, considered good	0.00	1,737,334.04
005	Credit impaired	0.00	0.00
006	Unbilled Revenue	0.00	0.00
007	Sub-Total	0.00	1,737,334.04
800	Total	0.00	1,737,334.04
009	Less: Allowance for credit impaired receivables	0.00	0.00
010	Total	0.00	1,737,334.04
012	Less: Discom Clearing	0.00	0.00
014		0.00	0.00
015	Grand Total	0.00	1,737,334.04
016	Other Unsecured	0.00	0.00
017	Long-term trade receivables	0.00	0.00
018	TCS Clearing	0.00	0.00
019	Discom Clearing	0.00	0.00
228	Trade Receivable	0.00	0.00
230	Not due	0.00	0.00
231	Due	0.00	0.00
232	(i) Undisputed Trade receivables # considered good	0.00	1,737,334.04
233	(ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
234	(iii) Undisputed Trade Receivables # credit impaired	0.00	0.00
235	(iv) Disputed Trade Receivables#considered good	0.00	0.00
236	(v) Disputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
237	(vi) Disputed Trade Receivables # credit impaired	0.00	0.00
238	Unbilled	0.00	0.00
239	Total	0.00	1,737,334.04
240		0.00	0.00
241	(i) Undisputed Trade receivables # considered good	0.00	0.00
242	Less than 6 months	0.00	1,737,334.04
243	6 months -1 year	0.00	0.00
244	1-2 years	0.00	0.00
245	2-3 years	0.00	0.00
246	More than 3 years	0.00	0.00
247	Sub Total (I)	0.00	1,737,334.04
248	(ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
249	Less than 6 months	0.00	0.00
250	6 months -1 year	0.00	0.00
251	1-2 years	0.00	0.00
252	2-3 years	0.00	0.00

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NOTE NO. 15 TO THE FS-CA-TRADE RECEIVABLES ( Amount in ₹) 31.03.2024 31.03.2023 253 More than 3 years 0.00 0.00 254 0.00 Sub Total (II) 0.00 255 (iii) Undisputed Trade Receivables -credit 0.00 0.00 impaired 256 0.00 0.00 Less than 6 months 257 0.00 0.00 6 months -1 year 258 0.00 1-2 years 0.00 259 2-3 years 0.00 0.00 260 More than 3 years 0.00 0.00 261 Sub Total (III) 0.00 0.00 262 0.00 0.00 263 (iv) Disputed Trade Receivables#considered 0.00 0.00 good 264 Less than 6 months 0.00 0.00 0.00 0.00 265 6 months -1 year 266 1-2 years 0.00 0.00 267 2-3 years 0.00 0.00 268 More than 3 years 0.00 0.00 269 Sub Total (IV) 0.00 0.00 (v) Disputed Trade Receivables # which have 270 0.00 0.00 significant increase in credit risk 271 Less than 6 months 0.00 0.00 272 6 months -1 year 0.00 0.00 273 1-2 years 0.00 0.00 274 2-3 years 0.00 0.00 More than 3 years 0.00 275 0.00 276 Sub Total (V) 0.00 0.00 (vi) Disputed Trade Receivables # credit 277 0.00 0.00 impaired 0.00 0.00 278 Less than 6 months 0.00 0.00 279 6 months -1 year 280 1-2 years 0.00 0.00 281 0.00 0.00 2-3 years 282 0.00 More than 3 years 0.00 283 Sub Total (VI) 0.00 0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 16 TO THE FS-CA-CASH AND CASH EQUIVALENTS

( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	CASH & BANK BALANCES	0.00	0.00
002	Cash & Cash Equivalents	0.00	0.00
003	Balances with Banks	0.00	0.00
004	Cheques & Drafts on hand	0.00	0.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	0.00	0.00
007	Bank deposits with original maturity upto three months	0.00	0.00
800	Balances with RBI	0.00	0.00
009		0.00	0.00
011	Total	0.00	0.00

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NOTE NO. 17 TO THE FS-CA-BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS ( Amount in ₹) 31.03.2024 31.03.2023 001 **Other Bank Balances** 0.00 0.00 002 0.00 Deposits with original maturity of more than three 0.00 months but not more than twelve months 003 Earmarked balances with banks\* 0.00 0.00 004 SubTotal 0.00 0.00 005 Interest accrued on deposits 0.00 0.00 006 0.00 0.00 800 Total 0.00 0.00 009 0.00 0.00 010 Earmarked balances with banks consist of : 0.00 0.00 0.00 011 Unpaid dividend account balance 0.00 0.00 012 Towards public deposit repayment reserve 0.00 Towards redemption of bonds due for repayment 013 0.00 0.00 within one year 0.00 014 Security with Government/other authorities 0.00 Unpaid refund/interest account balance - Tax free 0.00 0.00 015 bonds/ Bonus Debentures 016 Earmarked for RGGVY/DDUGJY/SAUBHAGYA 0.00 0.00 Fund/RDSS Earmarked for Flyash Utilisation Reserve Fund 0.00 0.00 017 Deposits with original maturity upto three months 0.00 0.00 018 as per court orders 019 Payment Security Scheme of MNRE NSM (NTPC) 0.00 0.00 Payment Security Scheme of MNRE NSM 0.00 020 0.00 (NVVN) Enforcement Directorate of Solar Plant(NVVN) 021 0.00 0.00 022 Bank guarantee Fund of MNRE (NVVN) 0.00 0.00 023 Others 0.00 0.00 024 Margin Money 0.00 0.00 025 0.00 0.00 026 0.00 0.00 027 0.00 0.00 031 **Total** 0.00 0.00 032 0.00 0.00 033 Bank deposits with original maturity of less than 0.00 0.00 three months- other than earmarked 034 Bank deposits with original maturity of more than 0.00 0.00 three months but not more than twelve monthsother than earmarked

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035 Earmarked bank balances (current account)



0.00

0.00



## RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-LOANS

1401	E NO. 18 TO THE FS-CA-LOANS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	Current financial assets - Loans	0.00	0.00
002	Loans (current)-including interest accrued	0.00	0.00
004	Related Parties	0.00	0.00
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
800	Credit impaired	0.00	0.00
009		0.00	0.00
010	Employees	0.00	0.00
011	Secured	20,444,141.39	20,505,267.61
012	Unsecured	47,920,985.09	49,104,386.31
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	Loan to State Government in settlement of dues from customers (Unsecured)	0.00	0.00
017		0.00	0.00
018	Others	0.00	0.00
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		0.00	0.00
024	Less: Allowance for credit impaired loans	0.00	0.00
026		0.00	0.00
027	Total (Loans)	68,365,126.48	69,609,653.92
028		0.00	0.00
029	Due from Directors and Officers of the Company	0.00	0.00
030	Directors	0.00	0.00
031	Officers	0.00	0.00
032		0.00	0.00
033	Loans to related parties include:	0.00	0.00
034	i)Key management personel	0.00	0.00
035	ii)Subsidiary companies	0.00	0.00
035 036	ii)Subsidiary companies KBUNL		0.00 0.00
		0.00	
036	KBUNL	0.00 0.00	0.00
036 037	KBUNL RGPPL	0.00 0.00 0.00	0.00 0.00
036 037 038	KBUNL RGPPL NVVN	0.00 0.00 0.00 0.00	0.00 0.00 0.00
036 037 038 039	KBUNL RGPPL NVVN iii)Joint Venture companies	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
036 037 038 039 040	KBUNL RGPPL NVVN iii)Joint Venture companies	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
036 037 038 039 040 041	KBUNL RGPPL NVVN iii)Joint Venture companies iv)others	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
036 037 038 039 040 041 060	KBUNL RGPPL NVVN iii)Joint Venture companies iv)others  RPD	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
036 037 038 039 040 041 060 061	KBUNL RGPPL NVVN iii)Joint Venture companies iv)others  RPD i)Key management personel	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00
036 037 038 039 040 041 060 061	KBUNL RGPPL NVVN iii)Joint Venture companies iv)others  RPD i)Key management personel ii)Subsidiary companies	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 18 TO THE FS-CA-LOANS

( Amount in ₹)

	As at	31.03.2024	31.03.2023
066	Total	0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 19 TO THE FS-CA-OTHER FINANCIAL ASSETS

( Amount in ₹)

NOI	E NO. 19 TO THE FS-CA-OTHER FINANCIAL ASSE	.15	( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	Other Financial Assets (current)	0.00	0.00
002		0.00	0.00
003	ADVANCES	0.00	0.00
004		0.00	0.00
005	Related Parties	0.00	0.00
006	Secured	0.00	0.00
007	Un-Secured	83,198,965.55	84,291,452.19
800	Considered doubtful	0.00	0.00
009		0.00	0.00
010	Employees	0.00	0.00
012	Unsecured	2,570,249.72	4,592,765.26
013	Considered Doubtful	0.00	0.00
014		0.00	0.00
020	Others	0.00	0.00
021	Secured	0.00	0.00
022	Unsecured	0.00	0.00
023	Considered Doubtful	0.00	0.00
024		0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026	Less. Allowance for bad & doubtful advances	0.00	0.00
	Total (Advances)		
033	Total (Advances)	85,769,215.27	88,884,217.45
044		0.00	0.00
045	Claims Recoverable	0.00	0.00
046	Secured	0.00	0.00
047	Unsecured, considered good	6,009,309.00	9,951,203.69
048	Considered Doubtful	0.00	0.00
049	Less:- Allowance for doubtful claims	0.00	0.00
050	Others-Claims Recoverable	0.00	0.00
051		0.00	0.00
052	Contract Asset- Revenue	2,663,746.83	2,663,746.83
053	Hedging cost recoverable from beneficiaries	0.00	0.00
054	Derivative MTM Asset	0.00	0.00
055	Finance Lease Receivable	0.00	0.00
056	Mine Closure Deposit	0.00	0.00
057	Financial Deposit	0.00	0.00
	•		
059	Other Accrued Income	0.00	0.00
060	Secured,Considered Good	0.00	0.00
061	Unsecured , considered good	28,930,719.83	24,838,947.89
062	Credit impaired	0.00	0.00
063	_	0.00	0.00
064	Sub-Total _	28,930,719.83	24,838,947.89
065	Less: Allowance for credit impaired receivables	0.00	0.00
066	Total	28,930,719.83	24,838,947.89
067		0.00	0.00
068	Others*	0.00	0.00
070		0.00	0.00
010	_	0.00	0.00

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NOTE NO. 19 TO THE FS-CA-OTHER FINANCIAL ASSETS ( Amount in ₹) 31.03.2024 31.03.2023 As at 071 **Total** 123,372,990.93 126,338,115.86 072 \* Other include amount recoverable from 0.00 0.00 contractors and other parties towards hire charges, rent/electricity etc. 073 Advances to related parties include: 0.00 0.00 074 i)Key management personel 0.00 0.00 075 0.00 0.00 076 iii)Joint Venture companies 0.00 0.00 077 0.00 0.00 078 v)Others 0.00 0.00 079 0.00 0.00 080 Advances include amount due from the following 0.00 0.00 Private Companies in which Directors of the Company are also Directors in such Companies Related Party (Adv)- Employee 0.00 0.00 081 082 Related Party (Adv)- Subsidiaries 83,366,423.19 82,273,936.55 083 Related Party (Adv)- Joint Ventures 925,029.00 925,029.00 084 0.00 0.00 085 Related Party (Adv)- Others 0.00 0.00 086 0.00 0.00 099 0.00 0.00 100 0.00 0.00

83,198,965.55

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101

**Total** 

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84,291,452.19



NOT	E NO. 20 TO THE FS-CA-OTHER CURRENT ASSETS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	OTHER CURRENT ASSETS	0.00	0.00
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	812,756.00	812,756.00
004	ADVANCES	0.00	0.00
005		0.00	0.00
006	Related Parties	0.00	0.00
007	Secured	0.00	0.00
800	Un-Secured	1,407,513.00	1,407,513.00
009	Considered doubtful	0.00	0.00
010		0.00	0.00
011	Employees(including imprest)	0.00	0.00
012	Secured	0.00	0.00
013	Unsecured	303,927.00	1,322,275.00
014	Considered Doubtful	0.00	0.00
015		0.00	0.00
016	Contractors & Suppliers	0.00	0.00
017	Secured	0.00	0.00
018	Unsecured	189,173,545.01	205,359,772.28
019	Considered Doubtful	0.00	0.00
020		0.00	0.00
021	Others**	0.00	0.00
022	Secured	0.00	0.00
023	Unsecured	17,155,797.00	18,994,496.00
024	Considered Doubtful	0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026	Receivable from MCP Escrow A/c	0.00	0.00
027	Deferred Payroll Expenses (Secured)	1,712,152.62	1,972,468.83
028	Deferred Payroll Expenses (Unsecured)	3,511,865.88	3,069,573.18
029	Sub-total	5,224,018.50	5,042,042.01
030	Interest accrued on :	0.00	0.00
031	Advances to contractors	0.00	0.00
032		0.00	0.00
033	Claims Recoverable	0.00	0.00
034	Secured	0.00	0.00
035	Unsecured, considered good	378,936,323.22	445,294,831.82
036	Considered Doubtful	26,600,000.00	26,600,000.00
037	Less:- Allowance for doubtful claims	26,600,000.00	26,600,000.00
038		0.00	0.00
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041		0.00	0.00
042	Others	6,576,538.00	4,160,672.00
043		0.00	0.00
045	Total (Other Current Assets)	599,590,417.73	682,394,358.11
046	**Include Prepaid Expenses	17,061,077.00	18,220,222.00
047	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	812,756.00	812,756.00
		>#\	

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NOTE NO. 20 TO THE FS-CA-OTHER CURRENT ASSETS ( Amount in ₹) 31.03.2024 31.03.2023 048 \*Includes deposited with courts 0.00 0.00 049 0.00 0.00 \*Includes deposited with LIC for annuity payments 050 \* Includes deposits with WRD / against BG in r/o 0.00 0.00 finance lease 051 0.00 0.00 Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc. Advances to related parties include: 0.00 0.00 053 054 0.00 0.00 i)Key management personel 055 ii)Subsidiary companies 0.00 0.00 0.00 056 iii)Joint Venture companies 0.00 057 Contractors 0.00 0.00 058 Others 0.00 0.00 059 0.00 0.00 060 Advances include amount due from the following 0.00 0.00 Private Companies in which Directors of the Company are also Directors in such Companies 061 0.00 0.00 062 0.00 0.00 063 Related Party (Adv)- Employee 0.00 0.00 064 Related Party (Adv)- Subsidiaries 0.00 0.00 065 Related Party (Adv)- Joint Venture 1,407,513.00 1,407,513.00 066 0.00 0.00 067 0.00 0.00 1,407,513.00 068 Total 1,407,513.00 069 0.00 0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 21 TO THE FS-ASSETS HELD FOR SALE

( Amount in ₹)

1401	ENO. 21 TO THE TO-AGGETO HEED TOK GALE		( Amount in x )
	As at	31.03.2024	31.03.2023
001	ASSET HELD FOR SALE	0.00	0.00
002		0.00	0.00
003	Assets held for Sale	6,036,716.90	6,037,344.90
004		0.00	0.00
005	Total	6,036,716.90	6,037,344.90
031		0.00	0.00
032	Assets held for sale includes:-	0.00	0.00
033		0.00	0.00
034	Land	0.00	0.00
035	Building	0.00	0.00
036	Plant and equipment	5,995,260.51	5,995,260.51
037	Other assets	41,456.39	42,084.39
038	Total	6,036,716.90	6,037,344.90
039		0.00	0.00
040		0.00	0.00
041		0.00	0.00
042		0.00	0.00
043		0.00	0.00

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NOTE NO. 22 TO THE FSREGULATORY DEFERRAL ACCOUNT DEBIT BALANCES			( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	On account of Exchange Differences	-311,910,538.67	-127,675,626.92
002	On account of employee benefit exp	84,415,334.33	84,415,334.33
003	Regulatory deferred account - deferred	0.00	0.00
004	Deferred asset for ash transportation	0.00	0.00
005	Deferred asset for Arbitration Award	0.00	0.00
800		0.00	0.00
009	Total	-227,495,204.34	-43,260,292.59

Locked: 27.04.2024 - 18:18:08

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# RIHAND SUPER THERMAL POWER STATION ANNEXURE TO NOTE 9- RPD (LOANS) JOINT VENTURE

( Amount in ₹)

As at 31.03.2024 31.03.2023

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 23 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

( Amount in ₹)

NOI	ENO. 23 TO THE F3-EQUITY-EQUITY SHAKE CAL	FIIAL	( Alliount in \ )
	As at	31.03.2024	31.03.2023
001	SHARE CAPITAL	0.00	0.00
002	Equity Share Capital	0.00	0.00
003	Authorised	0.00	0.00
004	16,60,00,00,000 equity shares of Rs.10/- each (Previous year 10,000,000,000 equity shares of Rs.10/- each)	0.00	0.00
005	Issued,Subscribed and fully Paid-up	0.00	0.00
006	9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 9,894,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		0.00	0.00
800	Total	0.00	0.00
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holding	0.00	0.00
015	<ul> <li>Life Insurance Corporation of India/ICICI</li> <li>Prudential Mutual Fund</li> </ul>	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

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NOT	E NO. 24 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	RESERVE AND SURPLUS	0.00	0.00
002		0.00	0.00
003	Capital Reserve	0.00	0.00
004	As per last financial statements	0.00	0.00
006	Add: Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
800	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	SUB-TOTAL	0.00	0.00
011		0.00	0.00
017		0.00	0.00
018	SECURITIES PREMIUM ACCOUNT	0.00	0.00
019	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
020	ADD: ADDITIONS DURING THE YEAR/PERIOD	0.00	0.00
021	LESS: ADJUSTMENTS DURING THE YEAR/PERIOD	0.00	0.00
022	SUB-TOTAL	0.00	0.00
023	BONDS REDEMPTION RESERVE	0.00	0.00
024	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
025	ADD: TRANSFER FROM SURPLUS	0.00	0.00
026	LESS: TRANSFER TO SURPLUS ON REDEMPTION	0.00	0.00
027	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
028	SUB-TOTAL	0.00	0.00
029	CAPITAL REDEMPTION RESERVE	0.00	0.00
030	As per last financial statements	0.00	0.00
031	Add: Transfer from Surplus	0.00	0.00
032	Less: Transfer to surplus on redemption	0.00	0.00
033	Less: Adjustments during the year/ period	0.00	0.00
034	Sub-Total	0.00	0.00
035	Share Application money pending Allotment	0.00	0.00
036	As per last financial statements	0.00	0.00
037	Add: Addition during the year	0.00	0.00
038	Less: Utlised for allotment during the year	0.00	0.00
039	Less: Adjustments during the year/ period	0.00	0.00
040	SUB-TOTAL	0.00	0.00
046	FLY-ASH UTILISATION RESERVE FUND	0.00	0.00
047	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
048	TRANSFERRED TO CC	0.00	0.00
049	ADD:TRANSFER FROM REVENUE FROM OPERATIONS	4,409,268.00	549,433.49
050	ADD:TRANSFER FROM OTHER INCOME	0.00	0.00
051	LESS: UTILISED DURING THE YEAR	0.00	0.00
052	TANGIBLE ASSETS	0.00	0.00
053	EMPLOYEE BENEFIT EXPENSES	0.00	0.00
054	GENERATION,ADMN. AND OTHER EXPENSES	4,409,268.00	549,433.49

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 24 TO THE FS-EQUITY-OTHER EQUITY

NOT	E NO. 24 TO THE FS-EQUITY-OTHER EQUITY		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
055	TAX EXPENSES	0.00	0.00
056	SUB-TOTAL	0.00	0.00
057	Self Insurance Reserve	0.00	0.00
058	As per last financial statements	0.00	0.00
059	Add: Addition during the year	0.00	0.00
060	Less: Utlised for allotment during the year	0.00	0.00
061	Less: Adjustments during the year/ period	0.00	0.00
062	SUB-TOTAL	0.00	0.00
063	SPECIAL ALLOWANCE RESERVE FUND	0.00	0.00
064	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
065	ADD: ADDITION DURING THE YEAR	0.00	0.00
066	LESS: UTLISED FOR ALLOTMENT DURING THE YEAR	0.00	0.00
067	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
068	SUB-TOTAL	0.00	0.00
069	CORPORATE SOCIAL RESPONSIBILITY (CSR) RESERVE	0.00	0.00
070	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
071	ADD : TRANSFER FROM SURPLUS	0.00	0.00
072	LESS:-WRITE BACK DURING THE YEAR	0.00	0.00
073	SUB-TOTAL	0.00	0.00
074	GENERAL RESERVE	0.00	0.00
075	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
076	ADD: TRANSFER FROM SURPLUS	0.00	0.00
077	LESS: TRANSFER TO SURPLUS	0.00	0.00
078	LESS: WRITE BACK DURING THE YEAR /PERIOD	0.00	0.00
079	LESS: ADJUSTMENTS DURING THE YEAR /PERIOD	0.00	0.00
080	SUB-TOTAL	0.00	0.00
081		0.00	0.00
082	RETAINED EARNINGS	0.00	0.00
083	AS PER LAST FINANCIAL STATEMENTS	189,412,419,211.48	178,934,325,577.14
084	ADD(LESS):-CHANGES IN ACCOUNTING POLICY / PRIOR PERIOD ERRORS	0.00	0.00
085	ADD(LESS):-PROFIT (LOSS) AFTER TAX FOR THE YEAR FROM STATEMENT OF PROFIT & LOSS	11,974,653,638.45	10,478,093,634.34
087	ADD: WRITE BACK FROM BOND REDEMPTION RESERVE	0.00	0.00
880	ADD: WRITE BACK FROM CAPITAL RESERVE	0.00	0.00
089	ADD: WRITE BACK FROM FOREIGN PROJECT RESERVE	0.00	0.00
090	ADD: WRITE BACK FROM CSR RESERVE	0.00	0.00
091	ADD: WRITE BACK FROM GENERAL RESERVE	0.00	0.00
093	LESS: TRANSFER TO BONDS REDEMPTION RESERVE	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 24 TO THE FS-EQUITY-OTHER EQUITY

( Amount in ₹) 31.03.2024 31.03.2023 094 LESS: TRANSFER TO SPECIAL ALLOWANCE 0.00 0.00 **RESERVE FUND** LESS: TRANSFER TO FOREIGN PROJECT 0.00 0.00 095 **RESERVE** 096 LESS:TRANSFER TO CAPITAL RESERVE 0.00 0.00 097 LESS:TRANSFER TO CSR RESERVE 0.00 0.00 098 LESS:TRANSFER TO GENERAL RESERVE 0.00 0.00 LESS:INTERIM DIVIDEND PAID 099 0.00 0.00 100 LESS:TAX ON INTERIM DIVIDEND PAID 0.00 0.00 101 LESS:FINAL DIVIDEND PAID 0.00 0.00 LESS:TAX ON FINAL DIVIDEND PAID 102 0.00 0.00 103 LESS: ISSUE OF BONUS DEBENTURE 0.00 0.00 104 LESS: TAX ON ISSUE OF BONUS DEBENTURE 0.00 0.00 105 **SUB-TOTAL** 189,412,419,211.48 201,387,072,849.93 110 0.00 0.00 111 REMEASUREMENT OF DEFINED BENEFIT 0.00 0.00 **PLANS** 112 AS PER LAST FINANCIAL STATEMENTS -226,140,395.43 -206,596,243.66 ADD/(LESS):- ACTUARIAL GAINS/LOSS 113 4,403,929.88 -19,544,151.77 THROUGH OCI **SUB-TOTAL** 114 -226,140,395.43 -221,736,465.55 115 0.00 0.00 116 **FVTOCI** Reserve 0.00 0.00 117 AS PER LAST FINANCIAL STATEMENTS 0.00 0.00 118 ADD(LESS):-NET GAIN/LOSS OF EQUITY 0.00 0.00 INSTRUMENTS THROUGH OCI 119 **Sub-Total** 0.00 0.00 120 0.00 0.00 121 **Total Other equity** 201,165,336,384.38 189,186,278,816.05 122 0.00 0.00 123 0.00 0.00 124 0.00 0.00 125 0.00 0.00 126 0.00 0.00 127 0.00 0.00 The fly ash utilization reserve fund is controlled at 0.00 128 0.00

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( Amount in ₹)

NOI	E NO. 25 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	LONG TERM BORROWINGS	0.00	0.00
002	Bonds	0.00	0.00
003	Secured	0.00	0.00
004	7.37 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
800	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 ( Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)	0.00	0.00
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

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( Amount in ₹)

NOT	E NO. 23 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 ( Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 ( Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

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( Amount in ₹)

NOI	E NO. 25 TO THE FS-NGL-BURKOWINGS		( Amount in ( )
	As at	31.03.2024	31.03.2023
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)		
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)		
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/-each redeemable at par in full on 22nd September 2024 (53rd Issue - private placement).	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

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( Amount in ₹)

NOI	E NO. 23 TO THE F3-NCL-	DURKUWINGS		( Amount in ? )
	As at		31.03.2024	31.03.2023
	par in full on 4th March (Fifty First Issue A - Priv			
028	8.41% Tax free seconon-convertible redeem 2013 of ₹ 1000/- each full on 16th December 2 Fiftieth Issue - Public Issue	able bonds - redeemable at par in 2023 (	0.00	0.00
029	8.66% Tax free seconon-convertible redeem 2013 of ₹ 1000/- each full on 16th December 2 Fiftieth Issue - Public Issue	nable bonds - redeemable at par in 2023 (	0.00	0.00
030	9.25% Secured non-convertible redeer of ₹10,00,000/- each with transferable redeemabl principal parts (STRPP) the end of 11th year an annual installments the of 15th year respective commencing from 4th on 4th May 2027 (Forty issue - private placeme	five equal separately e redeemable at par at d in ereafter upto the end y May 2023 and ending r fourth	0.00	0.00
031	8.48% Secured non-nonvertible redeer of ₹ 10,00,000/- each rede on 1st May 2023 (Seventeenth issue - pro	eemable at par in full	0.00	0.00
032	8.80% Secured non-convertible redeer of ₹10,00,000/- each rede on 4th April 2023 (Forty ninth issue -private place	emable at par in full	0.00	0.00
033	8.49% Secured non-convertible redeem paid-up bonus debentu redeemable at par in the annual installments of IRs. 5.00 at the end of 8 year, 9th year and 10th 2023, 25th March 2025 resplayed. Bonus Debenture (refer Note 5 d)	res of Rs. 12.50 each ree Rs. 2.50, Rs. 5.00 and th year on 25th March and pectively (Fifty Fourth	0.00	0.00
034	8.73% Secured	non-cumulative	0.00	0.00

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( Amount in ₹)

	As at	31.03.2024	31.03.2023
	non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 07th March 2023 (Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of `10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00
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( Amount in ₹)

NOI	E NO. 25 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00
	₹ 10,00,000/- each redeemable at par in full		

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( Amount in ₹)

1401	E NO. 25 TO THE F5-NCL-BURKOWINGS		( Amount in ( )
	As at	31.03.2024	31.03.2023
	on 12th January 2019 (Nineteenth issue - private placement)II		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)III	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)VII	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)VII	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)I	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)III	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

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( Amount in ₹)

	As at	31.03.2024	31.03.2023
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)III		
056	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)III	0.00	0.00
057	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)III	0.00	0.00
058	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of  ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)III	0.00	0.00
059	8.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00

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( Amount in ₹)

NOTE NO. 25 TO THE FS-NCL-BURROWINGS			( Amount in ( )
As at		31.03.2024	31.03.2023
year and in annual installments the upto the end of 20th year respectively commencing from December 2016 and ending on 15th December 2030 (Thirty sixth issue - placement)III	15th		
060 8.785% Secured non-cum non-convertible redeemable taxable to of ₹ 15,00,000/- each with fifteen separately transferable redeemable principal parts (redeemable at par at the end of 6th year and in annual installments the upto the end of 20th year respectively commencing from September 2016 and ending on 15th September 2030 (Thirty fifth issue - placement)III	onds equal STRPP) ereafter 15th	0.00	0.00
061 8.71% Secured non-cum non-convertible redeemable taxable of ₹ 15,00,000/- each with fifteen separately transferable redeemable principal parts (redeemable at par at the end of 6th year and in annual installments the upto the end of 20th year respectively commencing from 10t 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)	bonds equal STRPP) ereafter h June	0.00	0.00
redeemable at par at the end of 6th year and in annual installments the upto the end of 20th year respectively commencing from 25th 2016 and ending on 25th March	onds equal STRPP) ereafter	0.00	0.00
9.37% Secured non-cum non-convertible redeemable taxable of ₹ 70,00,000/- each with fourteen septransferable redeemable principal parts (STRPP) redeemable semi-annually commencing from 4th June 2012 and ending on 4th Dec 2018 (Twenty fifth issue -	bonds varately at par	0.00	0.00

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( Amount in ₹)

	As at	31.03.2024	31.03.2023
	private placement)III	31.03.2024	31.03.2023
	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)V	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

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( Amount in ₹)

NOT	E NO. 23 TO THE FS-NCL-BURKOWINGS		( Amount in ( )
	As at	31.03.2024	31.03.2023
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
075		0.00	0.00
075		0.00	0.00
076		0.00	0.00
077		0.00	0.00
078		0.00	0.00
079		0.00	0.00
080		0.00	0.00
081		0.00	0.00
082	Sub Total	0.00	0.00
083	Unsecured	0.00	0.00
084	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth Issue - Private Placement)	0.00	0.00
085	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First Issue - Private Placement)	0.00	0.00
086	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00
		> M	

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( Amount in ₹)

NOI	E NO. 25 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
	of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second Issue - Private Placement)		
087	6.43% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 27 January 2031 (Seventy Third Issue - Private Placement)	0.00	0.00
088	6.87% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21 April 2036 (Seventy Fourth Issue - Private Placement)	0.00	0.00
089	6.69% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 13 September 2031 (Seventy Fifth Issue - Private Placement)	0.00	0.00
090	6.74% Unsecured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 14 April 2032 (Seventy Sixth Issue - Private Placement)	0.00	0.00
091	5.78% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 29 April 2024 (Seventy Seventh Issue - Private Placement)	0.00	0.00
092	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 25 August 2032 (Seventy Eighth Issue - Private Placement)	0.00	0.00
093	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 15 April 2033 (Seventy Ninth Issue - Private Placement)	0.00	0.00
094	7.35% Unsecured non-cumulative non-convertible redeemable taxable bonds of `1,00,000/- each redeemable at par in full on 17 April 2026 (Eightieth Issue - Private Placement)	0.00	0.00
095	7.48% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 1,00,000/- each redeemable at par in full on 21 March 2026 (Eighty First Issue - Private Placement)	0.00	0.00
096		0.00	0.00
097		0.00	0.00
098		0.00	0.00
099		0.00	0.00
100	Sub-total	0.00	0.00
101	Total	0.00	0.00

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( Amount in ₹)

NOI	E NO. 25 TO THE FS-NCL-BORROWINGS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
102	Foreign Currency Notes-Unsecured	0.00	0.00
103	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
104	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
105	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
106	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
107	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
108	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
109	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
110	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00
111	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
112		0.00	0.00
113		0.00	0.00
114		0.00	0.00
115	Sub Total	0.00	0.00
116	Term Loans	0.00	0.00
117	From Banks	0.00	0.00
118	Secured	0.00	0.00
119	Rupee Loans	0.00	0.00
120	Unsecured	0.00	0.00
121	Foreign Currency Loans	0.00	0.00
122	Rupee Loans	0.00	0.00
123	From Others	0.00	0.00
124	Secured	0.00	0.00
125	Rupee Loans	0.00	0.00
126	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
127	Unsecured	0.00	0.00
128	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
129	Other Foreign currency loans	0.00	0.00
131	Rupee Loans	0.00	0.00
132	Deposits	0.00	0.00
133	Unsecured	0.00	0.00
134	Fixed Deposits	0.00	0.00
135	Others	0.00	0.00
136	Unsecured	0.00	0.00
137	Bonds Application Money Pending Allotment	0.00	0.00
138	Sub-total	0.00	0.00
139	Total	0.00	0.00
140	Less:- Interst accrued but not due on secured	0.00	0.00

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( Amount in ₹)

	As at	31.03.2024	31.03.2023
	borrowings		
141	Less:- Interst accrued but not due on unsecured borrowings	0.00	0.00
142	Less:- Current maturities of long term borrowings	0.00	0.00
143	Bonds-Secured	0.00	0.00
144	Fixed Rate Notes	0.00	0.00
146	Foreign currency loans from Banks- unsecured	0.00	0.00
147	Rupee loans from banks- Secured	0.00	0.00
148	Rupee loans from banks- unsecured	0.00	0.00
149	Rupee Term Ioan from Others - Secured	0.00	0.00
150	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
151	Other foreign currency loans from others- unsecured	0.00	0.00
152	Rupee loans from others- unsecured	0.00	0.00
153		0.00	0.00
154		0.00	0.00
155		0.00	0.00
156		0.00	0.00
157		0.00	0.00
158		0.00	0.00
159		0.00	0.00
160		0.00	0.00
161		0.00	0.00
201	Total	0.00	0.00

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NOTE NO. 26 TO THE FS-NCL-LEASE LIABILITIES ( Amount in ₹) 31.03.2024 31.03.2023 Non-current financial liabilities - Lease 0.00 0.00 001 liabilities 002 Lease liabilities 0.00 0.00 Long term maturities of Finance Lease Liabilities 003 0.00 0.00 (Secured) IX 004 Long term maturities of Finance Lease Liabilites 244,250,457.69 215,659,908.98 (Unsecured) X 005 **Sub-Total** 244,250,457.69 215,659,908.98 006 Less: current maturities of lease liabilities 0.00 0.00 Finance Lease obligations - secured 0.00 0.00 007 Finance Lease obligations - unsecured 800 14,911,924.69 14,497,699.11 14,911,924.69 009 **Sub-Total** 14,497,699.11 011 Total 229,338,533.00 201,162,209.87

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#### RIHAND SUPER THERMAL POWER STATION NOTE NO. 27 TO THE FS-NCL-TRADE PAYABLES

( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	TRADE PAYABLES(NON CURRENT)	0.00	0.00
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	0.00	0.00
004	- Others	0.00	0.00
005		0.00	0.00
007	Total	0.00	0.00

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#### NOTE NO. 28 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES ( Amount in ₹) 31.03.2024 31.03.2023 **OTHER FINANCIAL LIABILITIES** 001 0.00 0.00 (NON-CURRENT) 002 Payable for Capital Expenditure 0.00 0.00 003 - Micro & Small Enterprises 581,704.72 1,146,502.70 004 - Others 13,812,425.91 44,312,866.51 005 **Contractual Obligations** 28,050,256.33 10,410,858.12 006 Others 0.00 0.00 007 Deposits from contractors and others 0.00 0.00 800 0.00 0.00 009 0.00 0.00 Total 42,444,386.96 55,870,227.33 011 020 0.00 0.00 021 Payable for Capital Expenditure - SD/retntion 0.00 0.00 022 - Micro & Small Enterprises 581,704.72 1,146,502.70 023 - Others 951,500.41 1,612,484.59 024 Sub-total 1,533,205.13 2,758,987.29 025 **Contractual Obligations** 0.00 0.00 026 - Micro & Small Enterprises 4,753,648.08 10,583,409.69 027 - Others 5,657,210.04 17,466,846.64 028 **Sub-total** 28,050,256.33 10,410,858.12 029 Total (24+28) 29,583,461.46 13,169,845.41

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( Amount in ₹)

NOI	L NO. 29 TO THE TS-NCE-FROMSIONS		( Alliount iii \ )
	As at	31.03.2024	31.03.2023
001	LONG TERM PROVISIONS	0.00	0.00
002	Provision for Employee Benefits	0.00	0.00
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	Closing Balance	0.00	0.00
006		0.00	0.00
007	Others	0.00	0.00
800	i) Mine Closure Provision	0.00	0.00
009	Opening Balance	0.00	0.00
010	Additions during the year	0.00	0.00
011	Amounts adjusted during the year	0.00	0.00
012	Amounts reversed during the year	0.00	0.00
013	Closing Balance	0.00	0.00
014		0.00	0.00
015	ii) Stripping Activity Adjustments	0.00	0.00
016	Opening Balance	0.00	0.00
017	Additions during the year	0.00	0.00
018	Amounts adjusted during the year	0.00	0.00
019	Amounts reversed during the year	0.00	0.00
020	Closing Balance	0.00	0.00
021		0.00	0.00
024		0.00	0.00
026	TOTAL	0.00	0.00

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NOT	E NO. 30 TO THE FS-NCL-DEFERRED TAX	LIABILITIES (NET)		( Amount in ₹ )
	As at	Opening Balance on 01.04.2023	Addition	Closing Balance on 31.03.2024
001	DEFERRED TAX LIABILITIES (NET)			
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00
003	Less: Deferred tax assets			
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00
005	Unabsorbed Depreciation	0.00	0.00	0.00
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00
007	Others	0.00	0.00	0.00
800	Opening Balance	0.00	0.00	0.00
009	Additions during the year	0.00	0.00	0.00
010	Amounts adjusted during the year	0.00	0.00	0.00
011	Amounts reversed during the year	0.00	0.00	0.00
012	Closing Balance	0.00	0.00	0.00
013	MAT credit entitlement	0.00	0.00	0.00
014	Total	0.00	0.00	0.00
016		0.00	0.00	0.00
017	Total	0.00	0.00	0.00
018	Breakup of deferred tax assets	0.00	0.00	0.00
019	Provision	0.00	0.00	0.00
020	Statutory dues	0.00	0.00	0.00
021	Leave encashment	0.00	0.00	0.00
022	Others	0.00	0.00	0.00
023		0.00	0.00	0.00
024		0.00	0.00	0.00

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#### NOTE NO. 31 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES

( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
006		0.00	0.00
007	TOTAL	0.00	0.00

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( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Short Term Borrowings	0.00	0.00
002	Loans repayable on demand	0.00	0.00
003	From Banks	0.00	0.00
004	Secured	0.00	0.00
005	Cash Credit	0.00	0.00
006	Unsecured	0.00	0.00
007	Cash Credit	0.00	0.00
800	Other loans-unsecured	0.00	0.00
009	Commercial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	Sub-Total	0.00	0.00
012	Current maturity of long term borrowings	0.00	0.00
013	Bonds-Secured	0.00	0.00
014	Foreign Currency Fixed Rate Notes	0.00	0.00
015	From Banks	0.00	0.00
016	Secured	0.00	0.00
017	Rupee Term Loan	0.00	0.00
018	Foreign currency loans	0.00	0.00
019	Unsecured	0.00	0.00
020	Foreign currency loans	0.00	0.00
021	Rupee term loans	0.00	0.00
022	From Others	0.00	0.00
023	Secured	0.00	0.00
024	Rupee Term Loan	0.00	0.00
025	Unsecured	0.00	0.00
026	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
027	Other foreign currency loans	0.00	0.00
028	Rupee term loans	0.00	0.00
029	Fixed deposits	0.00	0.00
030	Bill discounted	0.00	0.00
031		0.00	0.00
032	Sub Total	0.00	0.00
034		0.00	0.00
035	TOTAL	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 33 TO THE FS-CL-LEASE LIABILITIES

( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Current financial liabilities - Lease liabilities	0.00	0.00
002	Current maturity of finance lease obligations (secured)	0.00	0.00
003	Current maturity of finance lease obligations (unsecured)	14,911,924.69	14,497,699.11
005	Total	14,911,924.69	14,497,699.11

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NOT	E NO. 34 TO THE FS-CL-TRADE PAYABLES		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	TRADE PAYABLES	0.00	0.00
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	193,435,115.38	124,444,057.60
004	- Others	2,199,580,679.48	2,444,847,958.62
005		0.00	0.00
007	Total	2,393,015,794.86	2,569,292,016.22
800		0.00	0.00
172	Trade payable	0.00	0.00
173	MSME	0.00	0.00
174	Unbilled	111,479,469.38	90,554,124.60
175	Not due	0.00	0.00
176	Due	81,955,646.00	33,889,933.00
177	Disputed	0.00	0.00
178	Undisputed	81,955,646.00	33,889,933.00
179		0.00	0.00
180	Sub-total (A)	193,435,115.38	124,444,057.60
181		0.00	0.00
182	Others	0.00	0.00
183	Unbilled	382,056,604.52	510,593,053.51
184	Not due	0.00	0.00
185	Due	1,817,524,074.96	1,934,254,905.11
186	Disputed	0.00	0.00
187	Undisputed	1,817,524,074.96	1,934,254,905.11
188		0.00	0.00
189	Sub-total (B)	2,199,580,679.48	2,444,847,958.62
190		0.00	0.00
191	Total	2,393,015,794.86	2,569,292,016.22
192		0.00	0.00
193	Ageing	0.00	0.00
194	MSME	0.00	0.00
195	Disputed	0.00	0.00
196	Less than 1 year	0.00	0.00
197	1-2 years	0.00	0.00
198	2-3 years	0.00	0.00
199	More than 3 years	0.00	0.00
200	Sub Total (I)	0.00	0.00
201		0.00	0.00
202	Undisputed	0.00	0.00
203	Less than 1 year	81,955,646.00	33,889,933.00
204	1-2 years	0.00	0.00
205	2-3 years	0.00	0.00
206	More than 3 years	0.00	0.00
207	Sub Total (II)	81,955,646.00	33,889,933.00
208		0.00	0.00
209	Total MSME (III)	81,955,646.00	33,889,933.00
210		0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 34 TO THE FS-CL-TRADE PAYABLES

( Amount in ₹)

			(11111111111111111111111111111111111111
	As at	31.03.2024	31.03.2023
211	Others	0.00	0.00
212	Disputed	0.00	0.00
213	Less than 1 year	0.00	0.00
214	1-2 years	0.00	0.00
215	2-3 years	0.00	0.00
216	More than 3 years	0.00	0.00
217	Sub Total (IV)	0.00	0.00
218		0.00	0.00
219	Undisputed	0.00	0.00
220	Less than 1 year	520,486,166.86	1,205,164,381.11
221	1-2 years	568,292,226.10	42,685,077.00
222	2-3 years	42,422,625.00	84,846,453.00
223	More than 3 years	686,323,057.00	601,558,994.00
224	Sub Total (V)	1,817,524,074.96	1,934,254,905.11
225		0.00	0.00
226	Total Others (VI)	1,817,524,074.96	1,934,254,905.11

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### RIHAND SUPER THERMAL POWER STATION NOTE NO. 35 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

( Amount in ₹)

NOT	E <u>NO. 35 TO THE FS-CL-OTHER FINANCIAL LIABILIT</u>	TES	(Amount in ₹)
	As at	31.03.2024	31.03.2023
001	OTHER FINANCIAL LIABILITIES (CURRENT)	0.00	0.00
020	Interest accrued but not due on Unsecured Short Term Borrowing	0.00	0.00
021	Interest accrued but not due on secured borrowings	0.00	0.00
022	Interest accrued but not due on unsecured borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	Payable for Capital Expenditure	0.00	0.00
033	- Micro & Small Enterprises	69,094,120.25	73,235,010.01
034	- Others	4,687,516,054.53	4,118,286,883.53
035	Contractual Obligations	744,674,868.69	386,992,519.38
036	Others Payables	0.00	0.00
037	Deposits from contractors and others	291,609,186.35	85,777,478.98
038	Gratuity Obligations	0.00	0.00
039	Payable to employees	49,496,513.31	34,784,381.31
040	Payable to holding company	0.00	0.00
041	Retention on A/c BG encashment (Solar)	0.00	0.00
042	Payable to Solar Payment Security Account	0.00	0.00
043	Others **	14,692,741.08	17,075,074.39
044	Unspent CSR balance on ongoing Approved CSR projects	0.00	0.00
046		0.00	0.00
047		0.00	0.00
048	Total	5,857,083,484.21	4,716,151,347.60
049	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
050	** Include Payable to Hospital and other payable.	0.00	0.00
051	Payable for Capital Expenditure - SD/retntion	0.00	0.00
052	- Micro & Small Enterprises	51,495,838.26	37,883,895.26
053	- Others	830,776,903.27	870,016,808.78
054	Sub-total	882,272,741.53	907,900,704.04
055	Contractual Obligations	0.00	0.00
056	- Micro & Small Enterprises	134,203,480.99	87,455,777.24
057	- Others	610,471,387.70	299,536,742.14
048 049 050 051 052 053 054 055 056	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.  ** Include Payable to Hospital and other payable.  Payable for Capital Expenditure - SD/retntion  - Micro & Small Enterprises  - Others  Sub-total  Contractual Obligations  - Micro & Small Enterprises	5,857,083,484.21 0.00  0.00 0.00 51,495,838.26 830,776,903.27 882,272,741.53 0.00 134,203,480.99	4,716,151,347.60 0.00 0.00 37,883,895.20 870,016,808.78 907,900,704.04 0.00 87,455,777.24

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 35 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

( Amount in ₹)

	As at	31.03.2024	31.03.2023
058	Sub-total	744,674,868.69	386,992,519.38
059	Total	1,626,947,610.22	1,294,893,223.42
060		0.00	0.00

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NOT	E <u>NO. 36 TO THE FS-CL-OTHER CURRENT LIABILITI</u>	( Amount in ₹ )	
	As at	31.03.2024	31.03.2023
001	OTHER CURRENT LIABILITIES	0.00	0.00
002	Advances from customers and others	36,309,666.57	25,885,048.95
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	74,289,390.19	98,415,828.69
005	Deposits from contractors and others	0.00	0.00
006	Government grants	0.00	0.00
007	Others	0.00	0.00
009		0.00	0.00
010		0.00	0.00
011	Total	110,599,056.76	124,300,877.64

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NOTE NO. 37 TO THE FS-CL-PROVISIONS ( Amount in ₹) 31.03.2024 31.03.2023 001 SHORT TERM PROVISIONS 0.00 0.00 002 **Provision for Employee Benefits** 0.00 0.00 003 0.00 0.00 Opening balance 004 0.00 Additions/ (adjustments) during the year 0.00 005 0.00 0.00 **Closing Balance** 028 **Provisions for Obligations Incidental to Land** 0.00 0.00 Acquisition Opening balance 029 0.00 0.00 030 Additions during the year 0.00 0.00 031 Amounts paid during the year 0.00 0.00 032 Amounts reversed during the year 0.00 0.00 033 **Closing Balance** 0.00 0.00 **Provision for Tariff Adjustment** 035 0.00 0.00 036 Opening balance 0.00 0.00 037 0.00 Additions during the year 0.00 038 Amounts adjusted during the year 0.00 0.00 039 Amounts reversed during the year 0.00 0.00 040 **Closing Balance** 0.00 0.00 0.00 042 **Provision for shortage in Fixed Assets Pending** 0.00 **Investigation & Others** 043 Opening balance 0.00 0.00 3,612,900.00 0.00 044 Additions during the year 0.00 045 Amounts adjusted during the year 0.00 046 0.00 Amounts reversed during the year 0.00 047 **Closing Balance** 3,612,900.00 0.00 048 **Provision for Arbitration** 0.00 0.00 049 9,102,016.00 8,683,664.00 Opening balance 418,352.00 418,352.00 050 Additions during the year 051 Amounts used during the year 0.00 0.00 052 0.00 Amounts reversed during the year 0.00 053 **Closing Balance** 9,520,368.00 9,102,016.00 **Others** 054 0.00 0.00 055 0.00 0.00 Opening balance 056 Additions during the year 0.00 0.00 057 Amounts used during the year 0.00 0.00 058 Amounts reversed during the year 0.00 0.00 0.00 059 **Closing Balance** 0.00 102 0.00 0.00 104 Total 13,133,268.00 9,102,016.00

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NOTE NO. 38 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Current liabilities - current tax liabilities (net)	0.00	0.00
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
007		0.00	0.00
800	Closing Balance	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 39 TO THE FS--DEFERRED REVENUE

( Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Deferred Revenue	0.00	0.00
002	On account of advance against depreciation	0.00	0.00
003	On account of income from foreign currency fluctuation	1,356,547,000.00	1,576,387,000.00
004	Government grants	0.00	0.00
007		0.00	0.00
800		0.00	0.00
009	TOTAL	1,356,547,000.00	1,576,387,000.00

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NOTE NO. 39A TO THE FSREGULATORY DEFERRAL ACCOUNT CREDIT BALANCES (Amount in ₹)			
	As at	31.03.2024	31.03.2023
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
005	Total	0.00	0.00

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NOT	E NO. 40 TO THE FSREVENUE FROM OPERATIONS		( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
001	REVENUE FROM OPERATIONS	0.00	0.00
002	Sales	0.00	0.00
003	Energy Sales (including Electricity Duty)	58,808,609,858.29	59,510,085,389.70
004	Less: Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add: Exchange fluctuation receivable from customers	-1,000.00	-1,007,159,000.00
007	Sale of energy through trading	0.00	0.00
800	Commission (NVVN)	0.00	0.00
009	Sub total	58,808,608,858.29	58,502,926,389.70
010	Less: Rebate to customers	361,523,638.66	375,810,995.28
011	Energy Sales (Total)	58,447,085,219.63	58,127,115,394.42
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	Sub-total	0.00	0.00
018	Total - Sales	58,447,085,219.63	58,127,115,394.42
019	Sale of fly ash/ash products	4,409,268.00	549,433.49
020	Less: Transferred to fly ash utilisation reserve fund	-4,409,268.00	-549,433.49
021	Sub-total	0.00	0.00
022	Other Operating Income	0.00	0.00
023	Interest from customers	2,871,210,514.00	460,826,066.00
024	Energy Internally Consumed *	34,638,756.00	34,769,384.00
025	Interest income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	30,494,405.33	7,976,314.67
029	Income from E-Mobility Business & others	0.00	0.00
030	Others	0.00	0.00
032		0.00	0.00
033		0.00	0.00
034	Total	61,383,428,894.96	58,630,687,159.09
040	* Valued at variable cost of generation and corresponding amount included in power charges ( Note No. 42)	0.00	0.00
041	Excise duty on sale of flyash,cenospere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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NOT	E NO. 41 TO THE FSOTHER INCOME		( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
001	OTHER INCOME	0.00	0.00
002	Interest from	0.00	0.00
004	Financial assets at amortised cost	0.00	0.00
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007	Non current Trade Receivable	0.00	0.00
800	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortziation of premium	0.00	0.00
010	Sub Total	0.00	0.00
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	14,636,986.49	14,118,222.87
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	689,008.00	825,495.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	Sub Total	0.00	0.00
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	Sub Total	0.00	0.00
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	0.00	689,007.00
031	Other investments in Joint venture companies	0.00	0.00
032	Dividend from	0.00	0.00
033	Longterm investments in	0.00	0.00
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	Current Investments in	0.00	0.00
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040		0.00	0.00
041	Less: transferred to flyash utilisation reserve fund	0.00	0.00
042	Lease Rent # Ash Brick Plant	0.00	0.00
043	Less: transferred to flyash utilisation reserve fund	0.00	0.00
044	Other non-operating income	0.00	0.00
045	Profit on disposal of PPE	45,389.99	113,631.34

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NOT	E NO. 41 TO THE FSOTHER INCOME		( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
046	Profit on redemption of GOI securities	0.00	0.00
047	Net gain on sale of investments	0.00	0.00
048	Surcharge received from customers	33,273,196.00	156,699,458.00
049	Hire charges for equipment	0.00	498,590.40
050	Gain on option contract / Discount on F.ExchContract	73,463.00	6,390,259.00
051	Lease rent from investment property	0.00	0.00
052	Provision written back-others	424,646.47	3,573,171.43
053	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
054	Interest from Solar payment security account	0.00	0.00
055	Less : Transferred to SPSA fund	0.00	0.00
056	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
057	Less: Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
058		0.00	0.00
059		0.00	0.00
060		0.00	0.00
061	Miscellaneous Income	321,248,438.51	301,521,785.10
062	Total	370,391,128.46	484,429,620.14
063	Less:Transferred to Development of Coal Mines- Note 47A	0.00	0.00
064	Less:Transferred to Expenditure during Construction period (net)- Note 47	133,902.99	104,102.76
065	Less: Others	0.00	0.00
066	Less:Transferred to payable to Govt. of Jharkhand	0.00	0.00
068		0.00	0.00
069		0.00	0.00
070	Total	370,257,225.47	484,325,517.38
071		0.00	0.00
101	Details of Miscellaneous Income	0.00	0.00
102	Vehicle Hire Charges.	66,000.00	90,000.00
103	Sale of by products & residuals	0.00	0.00
104	Township recoveries(exl. Hospital Recoveries).	32,804,843.22	32,573,133.11
105	Depreciation written back	0.00	0.00
106	Sale of Scrap.	162,364,764.27	217,087,073.50
107	Receipt under loss of profit policy.	0.00	0.00
108	Receipts under MBD/Fire Policy.	0.00	0.00
109	Management development programme.	0.00	0.00
110	Management Fee - Misc (NVVN)	0.00	0.00
111	Others	126,012,831.02	51,771,578.49
112		0.00	0.00
113		0.00	0.00
114	Total (Miscellaneous Income)	321,248,438.51	301,521,785.10
115		0.00	0.00
131	Details of Provision written back others	0.00	0.00

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NOT	E NO. 41 TO THE FSOTHER INCOME		(Amount in ₹)
	For the Year ended	31.03.2024	31.03.2023
132	Doubtful debts	0.00	0.00
133	Doubtful Loans, Advances and Claims	0.00	0.00
134	Doubtful Construction Advances	0.00	0.00
135	Shortage in Construction Stores	88,397.16	1,458,151.13
136	Shortage in Stores	196,939.31	1,607,821.96
137	Obsolescence in Stores	139,310.00	507,198.34
138	Unserviceable capital works	0.00	0.00
139	Other Obligation including Arbitration	0.00	0.00
140	Shortage in Fixed Assets	0.00	0.00
141	Diminution in value of Investment	0.00	0.00
142		0.00	0.00
143		0.00	0.00

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0.00

0.00

34,514,855,222.10

### RIHAND SUPER THERMAL POWER STATION NOTE NO. 42 TO THE FS--FUEL COST

010

011

012

**Total** 

( Amount in ₹) 31.03.2023 For the Year ended 31.03.2024 **FUEL COST** 001 0.00 0.00 002 Coal 0.00 0.00 003 Captive 0.00 0.00 004 Other than captive 34,687,386,295.68 34,092,322,865.30 005 Gas 0.00 0.00 006 Naptha 0.00 0.00 007 Oil 506,683,670.02 422,532,356.80 800 Biomass Pellets & Others 0.00 0.00 009 0.00 0.00

0.00

0.00

35,194,069,965.70

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#### NOTE NO. 43 TO THE FS--EMPLOYEE BENEFITS EXPENSE ( Amount in ₹ ) For the Year ended 31.03.2024 31.03.2023 **EMPLOYEE BENEFITS EXPENSE** 001 0.00 0.00 002 Salaries and wages 1,420,229,075.93 1,521,094,969.69 003 Contribution to provident and other funds 230,813,260.68 203,254,370.35 004 Unwinding of deferred payroll expense 8,197,455.70 8,416,475.20 005 228,872,600.84 203,775,030.45 Staff welfare expenses 006 Less: Expenses transferred to Consultancy group 0.00 0.00 007 0.00 0.00 800 **Sub Total** 1,888,112,393.15 1,936,540,845.69 009 Less: Employee benefits expense allocated to fuel 126,414,506.69 124,169,760.51 inventory Less: Transferred/Allocated to development of 010 0.00 0.00 coal mines - Note 47A 011 Less: Others 0.00 0.00 0.00 0.00 012 Less: Transferred to fly ash utilisation reserve fund 013 Less: Transferred to CSR Expenses 0.00 0.00 014 3,533,759.52 Reimbursements for employees on secondment 3,276,040.25 Less: Transferred to expenditure during 015 31,691,938.82 46,208,463.83 construction period (net)- Note 47 016 Less: Transfer to Govt of Jharkhand A/c as 0.00 0.00 recoverable 018 0.00 0.00 019 **TOTAL** 1,711,955,663.11 1,777,403,106.11 020 0.00 Managerial Remuneration paid/ payable to 0.00 **Directors included above (except for Directors** fee which is included in Note 42) 0.00 021 Salaries and wages 0.00 022 Contribution to provident and other funds 0.00 0.00 023 Staff welfare expenses 0.00 0.00

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025

Directors fee

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0.00

0.00

0.00

0.00



NOT	E NO. 44 TO THE FSFINANCE COSTS		( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
001	FINANCE COSTS	0.00	0.00
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	616,779,786.46	731,574,881.93
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	65,542,908.37	40,412,501.47
006	Rupee term loans	450,346,229.00	450,875,180.00
007	Public deposits	0.00	0.00
800	Foreign currency bonds/notes	0.00	99,701,512.71
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	19,827,484.33	11,815,161.51
011	Commercial Papers	0.00	0.00
012	Sub Total	1,152,496,408.16	1,334,379,237.62
013	Interest on non financial items	18,086.00	0.00
014	Other Borrowing Costs	0.00	0.00
015	Bonds servicing & public deposit exp.	945,192.25	858,707.62
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	0.00	129,975.15
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	Sub Total (Other Borrowing cost)	963,278.25	988,682.77
027		0.00	0.00
028	Exchange differences regarded as an adjustment to borrowing costs	-31,247,413.53	16,291,816.52
029	Sub Total	1,122,212,272.88	1,351,659,736.91
030	Less: Transferred to Expenditure during construction period (net) - Note 47	119,314,872.39	67,839,767.20
031	Less: Transferred to development of coal mines- Note 47A	0.00	0.00
032		0.00	0.00
034	Total	1,002,897,400.49	1,283,819,969.71

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NOT	NOTE NO. 45 TO THE FSDEPRECIATION, AMORTIZATION AND IMPAIRMENT EXPENSES (Amount in ₹)				
	For the Year ended	31.03.2024	31.03.2023		
001	Depreciation, amortization and impairment expenses	0.00	0.00		
002	On property, plant and equipment- Note 2	5,272,550,841.88	4,896,131,231.52		
003	On investment property- Note 2A	0.00	0.00		
004	On intangible assets- Note 4	319,960.73	28,393.75		
005		0.00	0.00		
006	Sub-total	5,272,870,802.61	4,896,159,625.27		
007	Less:	0.00	0.00		
800	Allocated to fuel inventory	382,176,014.60	380,700,405.43		
009	Transferred to Expenditure during Construction Period (net)- Note 47	2,541.12	659.26		
010		0.00	0.00		
011	Transferred/Allocated to development of coal mines - Note 47A	0.00	0.00		
012	Adjustment with deferred revenue from deferred foreign currency fluctuation	219,840,000.00	207,462,000.00		
013		0.00	0.00		
015	Total	4,670,852,246.89	4,307,996,560.58		

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NOT	E NO. 46 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
001	OTHER EXPENSES	0.00	0.00
002	Power charges	114,071,005.38	36,602,545.00
003	Less: Recovered from contractors & employees	21,997,304.57	16,759,983.93
004	Sub-Total(Power Charges)	92,073,700.81	19,842,561.07
005	Water charges	143,348,894.00	139,871,225.00
006	Stores consumed	109,080,768.02	72,975,803.55
007	Rent	0.00	0.00
800	Less:Recoveries	0.00	0.00
009	Sub-Total (Rent)	0.00	0.00
010	Cost of captive coal produced	0.00	0.00
011	Repairs & maintenance	0.00	0.00
012	Buildings	115,052,101.97	158,149,415.92
013	Plant & machinery	0.00	0.00
014	Power stations	2,814,572,400.22	2,228,227,417.39
015	Construction equipment	0.00	0.00
016	Others	119,810,327.85	133,139,689.40
017	Sub-total (Repairs & maintenance)	3,049,434,830.04	2,519,516,522.71
019	Load Dispatch Center Charges	39,049,786.00	13,176,411.00
021	Insurance	177,744,689.07	176,259,470.09
022	Interest to beneficiaries	502,602,488.00	0.00
023	Rates and taxes	12,356,937.15	-6,259,316.14
024	Water cess & environment protection cess	0.00	0.00
025	Training & recruitment expenses	1,295,003.27	2,049,738.99
026	Less: Receipts	0.00	0.00
027	Sub-total (Training and recruitment expenses)	1,295,003.27	2,049,738.99
028	Communication expenses	24,933,224.99	18,055,262.15
029	Inland Travel	70,077,362.54	73,825,041.75
030	Foreign Travel	-13,890.00	153,377.00
030	Tender expenses	0.00	0.00
032	Less: Receipt from sale of tenders	0.00	0.00
033	Sub-total (Tender expenses)	0.00	
033	Payment to auditors	0.00	<b>0.00</b> 0.00
035	Audit fee	0.00	0.00
			0.00
036	Tax audit fee Other services	0.00	
037		0.00	0.00
038	Reimbursement of expenses	0.00	0.00
039	Sub-total (Payment to Auditors)	0.00	745,400,00
040	Advertisement and publicity	609,800.66	715,426.60
041	Electricity duty	0.00	0.00
042	Security expenses	500,034,468.77	450,957,342.53
043	Entertainment expenses	22,830,953.50	26,443,229.39
044	Expenses for guest house	22,417,249.24	20,529,003.23
045	Less:Recoveries	4,681,184.90	5,102,224.90
046	Sub-Total (Guest house expenses)	17,736,064.34	15,426,778.33
047	Education expenses	72,472,675.00	60,990,719.00
049	Donations	0.00	0.00

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NOT	E NO. 46 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
050	Ash utilisation & marketing expenses	2,171,797,468.80	1,205,661,111.07
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	18,247,979.65	85,099,069.19
054	Legal expenses	28,418,531.00	25,564,410.00
055	EDP hire and other charges	4,342,518.74	9,686,180.09
056	Printing and stationery	2,895,337.34	2,413,162.68
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	37,940,272.90	36,342,493.81
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062	LOSS ON FAIR VALUATION OF NON- CURRENT TRADE RECEIVABLE AT AMORTISED COST	0.00	0.00
063	Cost of Hedging	0.00	0.00
064	Derivatives MTM loss/gain (Net)	0.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	-168,732,271.52	15,280,472.25
066	Transport Vehicle running expenses	1,305,447.75	1,883,079.38
067	Horticulture Expenses	60,083,345.45	82,919,539.21
068	Hire charges- helicopter/aircraft.	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	131,684,397.10	54,556,145.78
074	Loss on disposal/write-off of PPE	134,550,634.28	81,328,604.99
075	Sub-Total	7,258,201,417.65	5,184,733,861.47
076	Less: Other expenses allocated to fuel inventory	685,238,571.79	584,991,830.30
077	Less: Transferred/Allocated to development of coal mines - Note 47A	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	48,712,813.41	25,183,231.73
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	0.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	0.00	0.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 47	15,557,399.80	2,525,818.02
083	Less: Transfer to Govt of Jharkhand A/c as recoverable	0.00	0.00
084	Net (Generation, Administration and Other expenses)	6,508,692,632.65	4,572,032,981.42
085	Corporate Social Responsibility Expenses	41,264,811.94	35,487,113.26
086	Less: Grants-in-aid	0.00	0.00
087	Sub-total (Corporate Social Responsibility Expenses)	41,264,811.94	35,487,113.26
088	Provisions	0.00	0.00
089	Doubtful Debts	0.00	0.00
090	Doubtful loans, advances and claims	0.00	0.00
091	Doubtful Construction Advances	0.00	0.00
092	Shortage in stores	5,923,534.81	222,450.81

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NOT	E NO. 46 TO THE FSOTHER EXPENSE		( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
093	Obsolete/Dimunition in the value of surplus stores	78,820,769.66	10,612,444.94
094	Shortage in construction stores	1,896,319.98	88,397.16
095	Dimunition in value of long term investments	0.00	0.00
096	Shortage in Fixed assets	3,612,900.00	0.00
097	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
098	Unserviceable capital works	0.00	0.00
099	Tariff Adjustment	-486,099,000.00	208,630,000.00
100	Others:	0.00	0.00
101	(i) Provision for arbitration cases	418,352.00	418,352.00
102	(ii) Other provisions	0.00	0.00
103	Total (Provisions)	-395,427,123.55	219,971,644.91
104		0.00	0.00
106	Total	6,154,530,321.04	4,827,491,739.59
107		0.00	0.00
108	Breakup of miscellaneous expenses.	0.00	0.00
110	Hire charges of office equipment	1,014,069.25	2,178,920.46
112	Operating expenses of construction equipment	0.00	0.00
113	Operating expenses of D.G. sets	0.00	0.00
114	Furnishing expenses	1,216,856.77	253,934.89
115	Subscription to trade and other associations.	0.00	0.00
117	Visa and entry permit charges	0.00	0.00
118	Tree plantation expNTPC Land	0.00	0.00
119	Research & development expenses .	0.00	0.00
120	Less : Grants received for Research & develoment expenses.	0.00	0.00
121	Sub-total (Research & development expenses)	0.00	0.00
122	Bank charges	64,876.52	90,956.68
123	Business Development Expenditure	0.00	0.00
124	Surcharge (NVVN)	0.00	0.00
125	Power Trading Expenses	58,605,449.00	30,539,939.00
126	Brokerage & commission	16,345,004.00	8,616,631.00
130	Books and periodicals	71,235.00	408,733.00
131	Claims/advances written off	0.00	0.00
132	Stores written off	0.00	0.00
133	Survey &Investigation expenses written off	0.00	0.00
134	Others	54,366,906.56	12,467,030.75
135	Total	131,684,397.10	54,556,145.78
136		0.00	0.00
137		0.00	0.00
138		0.00	0.00

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NOT	E NO. 47 TO THE FSEXPENDITURE DURING CONST	RUCTION PERIOD (NET)	( Amount in ₹ )
	For the Year ended	31.03.2024	31.03.2023
001	EXPENDITURE DURING CONSTRUCTION PERIOD (NET)	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	36,814,049.23	26,501,611.63
004	Contribution to provident and other funds	5,706,688.39	3,509,615.20
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	3,687,726.21	1,680,711.99
007	Total (A)	46,208,463.83	31,691,938.82
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	12,419,822.69	9,928,869.03
011	Foreign currency term loans	52,297,655.15	26,164,411.47
012	Rupee term loans	60,296,295.00	16,080,739.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	129,975.15
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	6,131,800.75	3,705,070.96
027	Exchange differences regarded as adjustment to interest cost	-11,830,701.20	11,830,701.59
028	Total (B)	119,314,872.39	67,839,767.20
029	· ,	0.00	0.00
030	C. Depreciation and amortisation	2,541.12	659.26
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	8,614,842.00	314,305.00
033	Less: Recovered from contractors & employees	144,064.99	39,741.55
034	Sub-total(Net power charges)	8,470,777.01	274,563.45
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	35,196.45	456.75
041		0.00	0.00
042	Insurance	0.00	0.00

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NOT	NOTE NO. 47 TO THE FSEXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)			
	For the Year ended	31.03.2024	31.03.2023	
043	Rates and taxes	466.20	108.00	
044	Communication expenses	182,703.00	463,943.00	
045	Travelling expenses	2,240,084.41	1,173,914.46	
046	Tender expenses	0.00	0.00	
047	Less: Income from sale of tenders	0.00	0.00	
048	Sub-total (Net tender expenses)	0.00	0.00	
049	Advertisement and publicity	0.00	0.00	
050	Security expenses	0.00	0.00	
051	Entertainment expenses	133,743.00	109,860.70	
052	Guest house expenses	0.00	0.00	
053	Less: Receipt from guest house	0.00	0.00	
054	Sub-total (Net Guest House Expenses)	0.00	0.00	
055	Education expenses	0.00	0.00	
056	Brokerage & Commission	0.00	0.00	
057	Books and periodicals	0.00	0.00	
058	Community development expenses	0.00	0.00	
059	Professional charges and consultancy fee	0.00	0.00	
060	Legal expenses	67,493.00	0.00	
061	EDP Hire and other charges	0.00	0.00	
062	Printing and stationery	2,794.00	19,534.00	
063	Miscellaneous expenses	4,424,142.73	483,437.66	
064	Total (D)	15,557,399.80	2,525,818.02	
065	Total (A+B+C+D)	181,083,277.14	102,058,183.30	
066	E. Less: Other Income	0.00	0.00	
067	Interest from	0.00	0.00	
068	Indian banks	0.00	0.00	
069	Foreign banks	0.00	0.00	
070	Others	0.00	0.00	
071	Contractors	0.00	0.00	
072	Hire charges	0.00	0.00	
073	Sale of scrap	0.00	0.00	
074	Exchange Differences	0.00	0.00	
075	Miscellaneous income	133,902.99	104,102.76	
076	TOTAL (E)	133,902.99	104,102.76	
077	F. Net actuarial gain/loss OCI	-213,090.51	-397,461.79	
078		0.00	0.00	
079	GRAND TOTAL (A+B+C+D-E+F)	180,736,283.64	101,556,618.75	
080		0.00	0.00	
081	* Balance carried to Capital Work-in-progress - (Note 3)	180,736,283.64	101,556,618.75	

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 47A TO THE FS--EDC- COAL MINING

NOT	E NO. 47A TO THE FSEDC- COAL MINING		(Amount in ₹)
	For the Year ended	31.03.2024	31.03.2023
001	EDC- Coal Mining	0.00	0.00
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	Total (A)	0.00	0.00
800	B. Finance Costs	0.00	0.00
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	Total (B)	0.00	0.00
029	. ,	0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	D. Generation , administration and other expenses	0.00	0.00
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	Sub-total(Net power charges)	0.00	0.00
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	0.00
042	Insurance	0.00	0.00
043	Rates and taxes	0.00	0.00
5.0	a.too arra tanoo	0.00	0.00

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NOTE NO. 47A TO THE FS--EDC- COAL MINING ( Amount in ₹ ) For the Year ended 31.03.2024 31.03.2023 044 Communication expenses 0.00 0.00 045 Travelling expenses 0.00 0.00 0.00 0.00 046 Tender expenses Less: Income from sale of tenders 047 0.00 0.00 048 **Sub-total (Net tender expenses)** 0.00 0.00 049 Advertisement and publicity 0.00 0.00 050 Security expenses 0.00 0.00 051 **Entertainment expenses** 0.00 0.00 052 0.00 0.00 Guest house expenses 053 Less: Receipt from guest house 0.00 0.00 054 **Sub-total (Net Guest House Expenses)** 0.00 0.00 055 0.00 **Education expenses** 0.00 056 **Brokerage & Commission** 0.00 0.00 057 Books and periodicals 0.00 0.00 058 Community development expenses 0.00 0.00 059 Professional charges and consultancy fee 0.00 0.00 060 0.00 0.00 Legal expenses 061 EDP Hire and other charges 0.00 0.00 062 0.00 0.00 Printing and stationery 063 Miscellaneous expenses 0.00 0.00 064 Total (D) 0.00 0.00 065 Total (A+B+C+D) 0.00 0.00 066 E. Less: Other Income 0.00 0.00 067 Interest from 0.00 0.00 068 Indian banks 0.00 0.00 069 Foreign banks 0.00 0.00 070 Others 0.00 0.00 071 Contractors 0.00 0.00 072 Hire charges 0.00 0.00 073 Sale of scrap 0.00 0.00 074 **Exchange Differences** 0.00 0.00 075 Miscellaneous income 0.00 0.00 TOTAL (E) 076 0.00 0.00 077 F. Net actuarial gain/loss OCI 0.00 0.00 078 0.00 0.00 079 **GRAND TOTAL (A+B+C+D-E+F)** 0.00 0.00 080 0.00 0.00 081 \* Balance carried to Capital Work-in-progress -0.00

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(Note 3)

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0.00



NOT	E NO. 48A TO THE FINANCIAL STATEMENTS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	1,272.13	1,272.13
004	(b) value (in rs)	116,742,467.99	116,742,467.99
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	227.63	227.63
007	(b) value (in rs)	208,310,187.38	208,310,187.38
800	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possesession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	Land not in possession of the company	0.00	0.00
014	(a) area (in acres)	0.00	0.00
015	-Freehold	787.37	776.45
016	-Right of Use	72.33	72.33
017	(b) value (in rs)	0.00	0.00
018	-Freehold	72,256,386.55	71,250,885.34
019	-Right of Use	32,189,938.59	30,718,588.01
020	Right-of-use buildings pending completion of legal fomalities - value (in rs.)	0.00	0.00
021	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
022	Property, plant & equipment	12,949,342,350.00	13,566,754,374.00
023	Intangible assets	0.00	0.00
024	Details of precommissioning expenditure	0.00	0.00
025	(a) precommissioning expenses	0.00	0.00
026	(b) precommissioning income	0.00	0.00
027	(c) net precommissioning expenditure	0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	-188,148,983.85	19,741,587.18
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	-5,125,413.86	282,259,548.61
064	Short Term Leases	0.00	0.00
065	A) Rent	0.00	0.00
066	Company lease accomodation - executives	0.00	0.00
067	Company lease accomodation - directors	0.00	0.00
068	Others	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 48A TO THE FINANCIAL STATEMENTS

NOT	E NO. 48A TO THE FINANCIAL STATEMENTS		(Amount in ₹)
	As at	31.03.2024	31.03.2023
069	Total	0.00	0.00
101	Borrowing cost capitalised during the year	119,314,872.39	67,839,767.20
102	Revenue grants recognized during the year	0.00	0.00
103	Revenue expenditure on research and development	0.00	0.00
104	Capital expenditure on research and development.	0.00	0.00
105	Expenditure on sustainibility development - capital	0.00	1,321,815.00
106	Expenditure on csr- capital	0.00	0.00
107	Opening balance - CSR Liability	5,746,540.00	5,794,153.00
108	Paid/Adjusted during the Year out of Opening above	-5,605,546.00	-1,456,484.00
109	Amount yet to be paid against Cr Year CSR Exp	9,271,344.00	1,408,871.00
110	Closing Balance CSR- Liability (110)	9,412,338.00	5,746,540.00
111		0.00	0.00
112		0.00	0.00
113	Disclosure under msmed act 2006.	0.00	0.00
114	Long-term	0.00	0.00
115	Short-term	-193,435,115.38	0.00
116	(i) (a) the principal amount remaining unpaid as at year end	-193,435,115.38	0.00
117	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
118	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
119	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
120	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
121	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
122	Amount of inventories recognized as an expense (including fuel)	37,170,395,683.42	36,118,519,159.86
123	Amount of inventories capitalised as overhauling assets out of 122 above	398,467,421.52	479,006,817.39
124	Amount capitalised as edc out of 122 above	0.00	0.00
133	Value of Imported Material Consumed during the Year	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	0.00	0.00
138	(ii)Land compensation cases	32,725,296.47	35,769,736.80
139	(iii)Others by state authorities towards:-	0.00	0.00
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00

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## RIHAND SUPER THERMAL POWER STATION NOTE NO. 48A TO THE FINANCIAL STATEMENTS

NOT	E NO. 48A TO THE FINANCIAL STATEMENTS		( Amount in ₹ )
	As at	31.03.2024	31.03.2023
142	(c) Other demands by state authorities	4,590,000.00	4,590,000.00
143	(iv) Others by fuel companies	0.00	0.00
144	(a) Disputes related to grade slippage-third party sampling	1,415,704,076.30	1,394,269,079.00
145	(b) Surface transportation charges on coal	911,712,917.66	911,712,917.69
146	(c) Take or pay claim - Gas stations	0.00	0.00
147	(d) Other claims by fuel companies not acknowledged as debt	686,853,915.00	686,853,915.00
149	B.Disputed tax demands	0.00	0.00
150	(i) Income tax	0.00	0.00
151	(ii) Excise duty	3,691,823.00	3,691,823.00
152	(iii) Sales tax	147,764,932.00	146,412,646.00
153	(iv) Service tax/GST	4,371,933.68	4,225,770.93
154	(v) Entry tax	0.00	0.00
155	C. Others	183,594,882.52	183,583,292.71
156	Total	3,391,009,776.63	3,371,109,181.13
157	D. Possible reimbursement on account of contingent liabilities	0.00	0.00
158	(i) Capital works	0.00	0.00
159	(ii)Land compensation cases	0.00	0.00
160	(iii)Others (by state authorities)	0.00	0.00
161		0.00	0.00
162	(iv) Others by fuel companies	3,017,962,731.96	2,992,835,911.66
163	(v) Disputed income tax demand	0.00	0.00
164	(vi) Disputed tax demands -others	147,764,932.00	150,104,469.00
165	(vii) Others	58,203.00	58,203.00
167	Total	3,165,785,866.96	3,142,998,583.66
168	E.AMOUNT PAID UNDER PROTEST/ADJUSTED BY AUTHORITIES - TAX CASES	812,756.00	812,756.00
169	F.CONTINGENT ASSETS	0.00	0.00
170	Intangible under development : less than 1 year	0.00	0.00
171	Intangible under development #: 1-2 year	0.00	0.00
227	Intangible under development #: 2-3 year	0.00	0.00
277	Intangible under development #: More than 3 years	0.00	0.00
278	Capital-Work-in Progress (CWIP)	0.00	0.00
279	Projects in progress	12,848,933,527.77	8,960,205,455.82
280	Projects temporarily suspended	0.00	0.00
281		0.00	0.00
282		0.00	0.00
283	Projects in progress	0.00	0.00
284	Less than 1 year	5,630,293,641.08	3,744,284,084.47
285	1-2 years	2,963,595,270.36	3,074,034,597.30
286	2-3 years	2,462,596,838.61	1,738,373,963.21
287	More than 3 years	1,792,447,777.72	403,512,810.84
288	Sub Total (I)	12,848,933,527.77	8,960,205,455.82
289		0.00	0.00

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# RIHAND SUPER THERMAL POWER STATION NOTE NO. 48A TO THE FINANCIAL STATEMENTS

( Amount in ₹)

	As at	31.03.2024	31.03.2023
290	Projects temporarily suspended	0.00	0.00
291	Less than 1 year	0.00	0.00
292	1-2 years	0.00	0.00
293	2-3 years	0.00	0.00
294	More than 3 years	0.00	0.00
295	Sub Total (II)	0.00	0.00
296		0.00	0.00
380	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

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