

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

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-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of **Feroze Gandhi Unchahar Thermal Power Station Stage-II (2X210 MW) for the period from 01.04.2024 to 31.03.2029.**

AND
IN THE MATTER OF Approval of Supplementary Tariff for Emission Control System (ECS), ESP Upgradation for the period from 01.04.2024 to 31.03.2029.

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BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
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PETITION NO.....

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-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of **Feroze Gandhi Unchahar Thermal Power Station Stage-II (2X210 MW) for the period from 01.04.2024 to 31.03.2029.**

**AND
IN THE MATTER OF** Approval of Supplementary Tariff for Emission Control System (ECS), ESP Upgradation for the period from 01.04.2024 to 31.03.2029.

**AND
IN THE MATTER OF**

Petitioner: : NTPC Ltd.
NTPC Bhawan
Core-7, Scope Complex
7, Institutional Area, Lodhi Road
New Delhi-110 003.

Respondents

1. Uttar Pradesh Power Corp. Ltd. (UPPCL)
Shakti Bhawan
14, Ashok Marg,
Lucknow – 226 001.
2. Rajasthan Urja Vika Nigam Limited (RUVNL)
(on behalf of DISCOMs of Rajasthan),
Vidyut Bhawan, Janpath,
Jaipur 302 005.
3. Tata Power Delhi Distribution Ltd.
Grid Substation, Hudson Road
Kingsway Camp
Delhi-110009.
4. BSES Rajdhani Power Ltd.,
2nd floor, B-Block
BSES Bhawan, Nehru Place
New Delhi-110019.

- 5 BSES Yamuna Power Ltd.,
Shakti Kiran Building
Karkardooma
Delhi-110092
- 6 Haryana Power Purchase Centre (HPPC)
Shakti Bhawan, Sector – VI,
Panchkula
Haryana – 134 109
- 7 Punjab State Power Corporation Ltd. (PSPCL)
The Mall
Patiala – 147 001
- 8 Himachal Pradesh State Electricity Board Ltd.
(HPSEB)
Kumar Housing Complex Building-II
Vidyut Bhawan
Shimla – 171 004
- 9 Power Development Department (J&K)
Govt. of J&K, Secretariat
Srinagar
- 10 Electricity Department (Chandigarh)
Union Territory of Chandigarh
Addl. Office Building
Sector-9 D, Chandigarh
- 11 Uttarakhand Power Corporation Ltd. (UPCL)
Urja Bhawan, Kanwali Road
Dehradun – 248 001
Uttarakhand.

The Petitioner humbly states that:

- 1) The Petitioner herein NTPC Ltd. (hereinafter referred to as '**Petitioner**' or '**NTPC**'), is a company incorporated under provisions of the Company Act, 1956 and a Government Company as defined under Section 2(45) of the Companies Act, 2013. Further, NTPC is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.

- 2) In terms of Section 79(1)(a) of Electricity Act, 2003, the Hon'ble Commission has been vested with the functions to regulate the tariff of NTPC, being a Generating Company owned and controlled by the Central Government. The regulation of the tariff of NTPC is as provided under Section 79(1)(a) read with Section 61, 62 and 64 of the Electricity Act, 2003 and the Regulations notified by the Hon'ble Commission in exercise of powers under Section 178 read with Section 61 of the Electricity Act, 2003.
- 3) The Petitioner is having power stations/ projects at different regions and places in the country. **Feroze Gandhi Unchahar Thermal Power Station Stage-II (2X210 MW)** (hereinafter referred to as Unchahar St-II) is one such station located in the State of Uttar Pradesh. The power generated from Unchahar St-II is being supplied to the respondents herein above.
- 4) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2024 (hereinafter 'Tariff Regulations 2024') which came into force from 01.04.2024, specifying the terms & conditions and methodology of tariff determination for the period 01.04.2024 to 31.03.2029.
- 5) Regulation 9(2) of Tariff Regulations 2024 provides as follows:
“(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 30.11.2024 , based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2024 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2024-29 along with the true up petition for the period 2019-24 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2019.”
In terms of above, the Petitioner is filing the present petition for determination of tariff for Unchahar St-II for the period from 01.04.2024 to 31.03.2029 as per the provisions of Tariff Regulations 2024.

- 6) The tariff of the Unchahar St-II for the tariff period 1.4.2019 to 31.3.2024 was determined by the Hon'ble Commission vide its order dated 12.12.2021 in Petition No.438/GT/2020 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2019. The petitioner vide affidavit dated 21.11.2024 had filed a separate true up petition for the period 01.04.2019 to 31.03.2024 for revision of tariff in line with the applicable provisions of Tariff Regulations 2019.
- 7) It is submitted that Hon'ble Commission vide order dated 12.12.2021 in Petition no 438/GT/2020 has allowed a capital cost of Rs **1,30,608.80** Lakh as on 31.03.2024 based on the admitted projected capital expenditure for the 2019-24 period. However, the actual closing capital cost as on 31.03.2024 has been worked out in the foresaid true-up petition as Rs. **1,29,455.70** Lakh based on the actual expenditure after truing up exercise for the period 2019-24. Accordingly, the Petitioner has adjusted an amount of Rs. (-) 1153.10 Lakh from the admitted capital cost as on 31.03.2024 and accordingly the opening capital cost as on 01.04.2024 has been considered as Rs. 1,29,455.70 Lakh in the instant petition. The Hon'ble Commission may be pleased to accordingly adopt this adjustment in the admitted capital cost as on 31.3.2024 and determine the tariff in the present petition for the period 2024-29.
- 8) The capital cost claimed in the instant petition is based on the opening capital cost as on 01.04.2024 considered as above and projected estimated capital expenditures claimed for the period 2024-29 under Regulation 19 and Regulation 24, 25 and 26 of the Tariff Regulations, 2024.
- 9) The Petitioner further respectfully submits that as per Regulation 36(1)(6) of the Tariff Regulations 2024, the water charges, security expenses, ash transportation expenses and capital spares consumed for thermal generating stations are to be allowed separately. The details in respect of water charges such as type of cooling water system, water consumption, rate of water charges as applicable for 2023-24 have been furnished below. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actual for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Coal based station
Type of cooling water system	Closed Cycle
Rate of Water charges	Water Charges: Rs 12.48 (Rs/1000 Cubic Feet) Royalty: Rs 6 Lakh/Cusec Per Year
Total Water Charges	Rs. 134.94 lacs

- 10) Similarly, the Petitioner is claiming the security & ash transportation expenses based on the estimated expenses for the period 2024-29, the same shall be subject to retrospective adjustment based on actuals at the time of true-up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to the Regulation 36(1)(6) based on actual consumption of spares during the period 2024-29.
- 11) However, it is submitted that the expenditure towards the ash transportation charges is recurring in nature and the Petitioner has been incurring ash transportation expenditure in its stations in the current tariff period also. In case the same is permitted to be recovered after the issuance of the tariff order for the period 2024-29, there will be additional liability on the beneficiary on account of the interest payment for the period till the time the tariff petitions for the period 2024-29 is decided. To avoid the interest payment liability of the beneficiaries, it is prayed that the petitioner may be allowed to recover/ pass on the ash transportation charges on a monthly basis subject to true-up at the end of the 2024-29 period.
- 12) Further, the petitioner humbly submits that petition no. 227/MP/2024 has been filed concerning Ash Utilization Expenditure for its stations which is under active consideration of this Hon'ble Commission and the outcome of the said petition will be applicable to the instant petition also.
- 13) It is submitted that the tariff has been worked out in the present petition on the basis of norms specified in the Tariff Regulations 2024. However, it is submitted

that the petitioner is in the process of installing the Emission Control Systems (ECS), Flue Gas Desulphurization (FGD) for controlling SOX emission in compliance of the Revised Emission Standards as notified by MOEF&CC vide notification dated 07.12.2015 as amended. Completion of these schemes in compliance of revised emission norms will affect the Station APC, Heat Rate, O&M expenses, water charges etc. In addition, the availability of the unit/ station would be also affected due to shutdown of the units for installation of ECS. The petitioner would be filing the details of the same in terms of the Regulation 29 of CERC (Terms& Conditions of Tariff) Regulations 2024. Accordingly, the Petitioner craves liberty to amend the Petition for determination of supplementary tariff for ECS in accordance with the provisions of CERC Tariff Regulations 2024 based on actual expenditure capitalized on ODe of FGDs. Hon'ble Commission may be pleased to allow the same.

- 14) Further, it is submitted that the petitioner has already installed Emission Control (ECS) System, ESP Upgradation for controlling Suspended Particulate (SPM) emissions and the tariff for the same has been claimed as a separate stream under regulation under regulation 29 of Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2024. The tariff forms for the ECS (ESP Upgradation) System are attached as **Appendix-IA**.
- 15) The petitioner has accordingly calculated the tariff for 2024-29 period based on the above and the same is enclosed as **Appendix-I** to this petition.
- 16) The Petitioner humbly submits that the pay/wage revision for the employees of the Petitioner will be due wef 01.01.2027. Further, the wage/pay revision of CISF and Kendriya Vidyalaya employees will also be due for revision during the tariff period 2024-29. Regulation-36(1)(8) of CERC (Terms & Conditions of Tariff) Regulations-2024 provides as below:
“In the case of a generating company owned by the Central or State Government, the impact on account of implementation of wage or pay revision shall be allowed at the time of truing up of tariff.”
In accordance with the above said regulation, the Petitioner shall approach the Hon'ble Commission for allowing the impact of Pay/wage revision of employees of the Petitioner i.e. NTPC Limited, CISF and Kendriya Vidyalaya (wherever

applicable) as additional O&M at the time of truing-up of tariff for the control period 2024-29. Hon'ble Commission may be pleased to grant liberty to consider the impact of wage/pay revision as an additional impact on O&M from the date same is implemented and allow the same as additional O&M over and above the normative O&M.

17) Form-15

It is submitted that in terms of Regulation 60 (5) of the Tariff Regulations 2024, the Petitioner is required to furnish details qua providing the details of Landed Price & Gross Calorific Value ("GCV") of coal in Form 15. It is further submitted that the Petitioner in terms of Regulation 40 of the Tariff Regulations 2019 was required to furnish the details for Landed Price & GCV of coal also as per Form 15 of the Tariff Regulations, 2019.

However, in so far as the present Petition is concerned, the Petitioner has prepared & submitted the data of coal as per Form 15 of the Tariff Regulations, 2019. The same is because of the following reasons:-

- (a) This Hon'ble Commission had notified the Tariff Regulations, 2019 on 07.03.2019 and the same was in effect till 31.03.2024.
- (b) The Petitioner being a diligent utility has been seamlessly providing the said data of coal in terms of the prescribed format (i.e. Form 15 of Annexure-I (Part I)) of the Tariff Regulations, 2019 to this Hon'ble Commission for computation of Interest on Working Capital.
- (c) Thereafter, this Hon'ble Commission on 15.03.2024 notified the Tariff Regulations, 2024, wherein the format of Form 15 was changed/ amended by this Hon'ble Commission and a new format was placed in the Tariff Regulations 2024 in the month of June'2024.
- (d) By virtue of the said change, the Petitioner has been obligated to furnish the data of coal for its existing plants month wise for the preceding 12

months i.e. for FY 2023-24 for computation of Interest on Working Capital.

It is humbly submitted that by virtue of the Tariff Regulations, 2024, this Hon'ble Commission has added a new format/ revised the format of Form-15 which has not prescribed in the past Tariff Regulations i.e. of 2019. Hence, it is only now (in the Tariff Regulations 2024) that the Petitioner has been obligated to furnish the data of coal as per the new format of Form-15.

It is respectfully submitted that since the format for Form 15 has been changed in Tariff Regulations, 2024 and was notified in the month of June'2024, the Petitioner could not have been aware about the said changes earlier, hence the Petitioner did not maintain the data required in new format of Form 15 of Tariff Regulations, 2024.

Therefore, this Hon'ble Commission may kindly exempt the Petitioner from furnishing the data of coal in terms of new format of Form 15 of the Tariff Regulations, 2024 & may be allowed to furnish the details of coal for FY 2023-24 in terms of the prescribed format of Form-15 of the Tariff Regulations, 2019.

In light of the above submissions, it may kindly be noted that no prejudice shall be caused to any party if the Petitioner is allowed for providing the details of Landed Price & GCV of coal to this Hon'ble Commission in terms of Form 15 of the Tariff Regulations, 2019 as the value of Landed Price & GCV of coal will remain unaffected.

- 18) It is submitted the Petitioner has served the copy of the Petition on to the Respondents mentioned herein above and has posted the Petition on the company website i.e. www.ntpc.co.in.
- 19) In accordance with the 'Conduct of Business Regulations 2023' of the Hon'ble Commission, the Petitioner shall, within 7 days after filing the tariff petition, publish a notice about such filing in at least two daily leading digital newspapers

one in English language and another in any of the Indian languages, having wide circulation in each of the States and Union Territories where the beneficiaries are situated, as per Form 14 appended to these regulations. Subsequently, the Petitioner shall submit the proof of publications as soft copies of the publications under an affidavit through the e-filing portal of the Hon'ble Commission within one week from the date of publication. Further, the Petitioner shall also submit the detail of expenses incurred for publication of the notice alongwith the prayer for recovery of Publication Expenses as per Regulation-94 of CERC Tariff Regulations 2024.

- 20) It is submitted that the Petitioner has already paid the requisite filing fee vide **UTR No. 37c568eba62158b7b321** on 24.04.2024 for the year 2024-25 and the details of the same have been duly furnished to the Hon'ble Commission. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Further Regulation 94 (1) of Tariff Regulations 2024 provides that the application fee and publication expenses may be allowed to be recovered directly from the beneficiaries at the discretion of the Hon'ble Commission. Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recovery of filing fee and publication fee directly from the beneficiaries.
- 21) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.3.2019 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

Prayers

In the light of the above submissions, the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

- i) Approve tariff of **Feroze Gandhi Unchahar Thermal Power Station Stage-II (2X210 MW)** for the tariff period 01.04.2024 to 31.03.2029.

- ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
- iii) Approve supplementary tariff for **Feroze Gandhi Unchahar Thermal Power Station Stage-II (2X210 MW)** on installation of Emission Control System for controlling SPM emissions.
- iv) Allow reimbursement of Ash Utilization Charges directly from the beneficiaries on monthly basis, subject to true up.
- v) Grant liberty to approach the Hon'ble Commission to allow for the recovery of pay/wage revision due in 2024-29 period as additional O&M over and above the normative O&M.
- vi) Pass any other order as it may deem fit in the circumstances mentioned above.

Petitioner

Noida



BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

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AND
IN THE MATTER OF Approval of Supplementary Tariff for Emission Control System (ECS), ESP Upgradation for the period from 01.04.2024 to 31.03.2029.

AND
IN THE MATTER OF

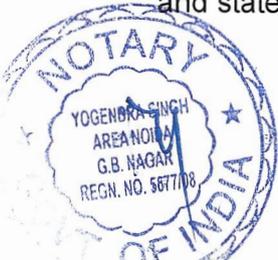
Petitioner: : NTPC Ltd.
NTPC Bhawan
Core-7, Scope Complex
7, Institutional Area, Lodhi
Road
New Delhi-110 003

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:



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

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.
3. That the contents of Para No ... 1 to ... 21 ... as mentioned in the Petition are true and correct based on my personal knowledge, belief and records maintained in the office.
4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
5. 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.

(Deponent)

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.)

Verification:

Verified at Noida on this 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.



ATTESTED
YOGENDRA SINGH
NOTARY NOIDA
G B NAGAR (U.P.) INDIA

25 NOV 2024

(Deponent)

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.)

PART-I

APPENDIX-I



TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

**Feroze Gandhi Unchahar Thermal Power Station, Stage-
II**

(From 01.04.2024 to 31.03.2029)

Checklist of Main Tariff Forms and other information for tariff filing for Thermal Stations

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Tariff	✓
FORM -1 (I)	Statement showing claimed capital cost	✓
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- 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
FORM- 8	Details of Allocation of corporate loans to various projects	✓
FORM-9A	Summary of Statement of Additional Capitalisation claimed during the period	✓
FORM-9##	Statement of Additional Capitalisation after COD	✓
FORM- 10	Financing of Additional Capitalisation	✓
FORM- 11	Calculation of Depreciation on original project cost	NA
FORM- 12	Statement of Depreciation	✓
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	NA
FORM- 15	Details of Fuel for Computation of Energy Charges	✓
FORM- 15A**	Details of Secondary Fuel for Computation of Energy Charges	✓
FORM- 15B**	Computation of Energy Charges	✓
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	NA
FORM-17***	Details of Capital Spares	***
FORM- 18***	Non-Tariff Income	***
FORM-19***	Details of Water Charges	***
FORM-20***	Details of Statutory Charges	***

PART-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	NA
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	NA
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM-D	Break-up of Construction/Supply/Service packages	NA
FORM-E	Details of variables , parameters , optional package etc. for New Project	NA
FORM-F	Details of cost over run	NA
FORM-G	Details of time over run	NA
FORM -H	Statement of Additional Capitalisation during end of the useful life	NA
FORM -I***	Details of Assets De-capitalised during the period	***
FORM -J***	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	***
FORM -K***	Statement showing details of items/assets/works claimed under Exclusions	***
FORM-L	Statement of Capital cost	✓
FORM-M	Statement of Capital Woks in Progress	✓
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	NA
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	NA
FORM-R	Actual cash expenditure	NA
FORM-S	Statement of Liability flow	***
FORM-T	Summary of issues involved in the petition	✓

** Additional Forms

Provided yearwise for the period 2024-29

*** Shall be provided at the time of true up

<u>List of supporting documents for tariff filing for Thermal Stations</u>		
S. No.	Information / Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC)	NA
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years. B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years.	***
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	***
9	Any other relevant information, (Please specify)	NA
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	***
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA
*** Shall be provided at the time of true up		

Summary of Tariff								PART-I FORM- 1	
Name of the Petitioner:			NTPC Limited						
Name of the Generating Station:			Feroze Gandhi Unchahar Thermal Power Station, Stage-II						
Place (Region/District/State):			Northern Region/ Raebareli/ Uttar Pradesh						
Amount in Rs. Lakhs									
S. No.	Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	
1	2	3	4	5	6	7	8	9	
1.1	Depreciation	Rs Lakh	3,511.87	3,545.94	1,238.71	471.02	1,282.16	2,642.72	
1.2	Interest on Loan	Rs Lakh	0.00	-	-	153.17	467.38	883.11	
1.3	Return on Equity	Rs Lakh	7,296.83	7,294.31	7,338.18	7,562.75	7,971.34	8,591.11	
1.4	Interest on Working Capital	Rs Lakh	5,257.73	4,455.10	4,458.59	4,497.25	4,565.92	4,653.24	
1.5	O&M Expenses	Rs Lakh	19,897.19	21,054.73	21,811.95	22,717.53	23,680.82	24,702.37	
1.6	Special Allowance (If applicable)	Rs Lakh	0.00	-	2,257.50	4,515.00	4,515.00	4,515.00	
	Total	Rs Lakh	35,963.62	36,350.09	37,104.93	39,916.73	42,482.63	45,987.55	
2.1	Landed Fuel Cost of coal as per FSA approved by beneficiaries	Rs/Ton	4,605.86	4,734.09					
	(%) of Fuel Quantity	(%)	82.18	88.58					
2.2	Landed Fuel Cost of Imported Coal as per FSA approved by beneficiaries	Rs/Ton	NA						
	(%) of Fuel Quantity	(%)	NA						
2.3	Landed Fuel Cost of coal other than FSA	Rs/Ton	NA						
	(%) of Fuel Quantity	(%)	NA						
2.4	Landed Fuel Cost Imported Coal other than FSA.	Rs/Ton	19,299.69	14,282.98					
	(%) of Fuel Quantity	(%)	17.82	11.42					
2.5	Secondary fuel oil cost	Rs/Unit	0.05	0.05	0.05	0.05	0.05	0.05	
	Energy Charge Rate ex-bus 2A, 2B, 2C, 2D	Rs/Unit	4.70	3.67	3.67	3.67	3.67	3.67	
(Petitioner)									

**PART-I
FORM- 1(I)**

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Feroze Gandhi Unchahar Thermal Power Station, Stage-II

Amount in Rs. Lakhs

Statement showing claimed capital cost – (A+B)

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	1,29,455.70	1,29,455.70	1,31,028.70	1,37,796.70	1,46,036.70
2	Add: Addition during the year	-	1,573.00	6,768.00	8,240.00	13,910.00
3	Less: De-capitalisation during the year	-	-	-	-	-
4	Less: Reversal during the year	-	-	-	-	-
5	Add: Discharges during the year	-	-	-	-	-
6	Closing Capital Cost	1,29,455.70	1,31,028.70	1,37,796.70	1,46,036.70	1,59,946.70
7	Average Capital Cost	1,29,455.70	1,30,242.20	1,34,412.70	1,41,916.70	1,52,991.70

Statement showing claimed capital cost eligible for RoE at normal rate (A)

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	1,29,455.70	1,29,455.70	1,30,955.70	1,36,085.70	1,43,625.70
2	Add: Addition during the year	-	1,500.00	5,130.00	7,540.00	13,910.00
3	Less: De-capitalisation during the year	-	-	-	-	-
4	Less: Reversal during the year	-	-	-	-	-
5	Add: Discharges during the year	-	-	-	-	-
6	Closing Capital Cost	1,29,455.70	1,30,955.70	1,36,085.70	1,43,625.70	1,57,535.70
7	Average Capital Cost	1,29,455.70	1,30,205.70	1,33,520.70	1,39,855.70	1,50,580.70

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Feroze Gandhi Unchahar Thermal Power Station, Stage-II

Amount in Rs. Lakhs

Statement showing claimed capital cost eligible for RoE linked to SBI MCLR (B)

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	-	-	73.00	1,711.00	2,411.00
2	Add: Addition during the year	-	73.00	1,638.00	700.00	-
3	Less: De-capitalisation during the year	-	-	-	-	-
4	Less: Reversal during the year	-	-	-	-	-
5	Add: Discharges during the year	-	-	-	-	-
6	Closing Capital Cost	-	73.00	1,711.00	2,411.00	2,411.00
7	Average Capital Cost	-	36.50	892.00	2,061.00	2,411.00

(Petitioner)

Statement showing Return on Equity at Normal Rate

**PART-I
FORM- 1(IIA)**

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II

Amount in Rs. Lakhs

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	Return on Equity eligible for RoE @ Normal Rate					
1	Gross Opening Equity (Normal)	38,836.71	38,836.71	39,286.71	40,825.71	43,087.71
2	Less: Adjustment in Opening Equity	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-
4	Net Opening Equity (Normal)	38,836.71	38,836.71	39,286.71	40,825.71	43,087.71
5	Add: Increase in equity due to addition during the year	0.00	450.00	1539.00	2262.00	4173.00
7	Less: Decrease due to De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	38,836.71	39,286.71	40,825.71	43,087.71	47,260.71
11	Average Equity (Normal)	38,836.71	39,061.71	40,056.21	41,956.71	45,174.21
12	Rate of ROE (%) - Pre Tax	15.50%	15.50%	15.50%	15.50%	15.50%
12a	Rate of ROE (%) - Post Tax	18.782%	18.782%	18.782%	18.782%	18.782%
13	Total ROE	7,294.31	7,336.57	7,523.36	7,880.31	8,484.62

(Petitioner)

Statement showing Return on Equity linked to SBI MCLR:

**PART-I
FORM- 1(IIB)**

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Feroze Gandhi Unchahar Thermal Power Station, Stage-II

Amount in Rs. Lakhs

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	Statement showing Return on Equity Eligible@SBI MCLR + 350 basis points					
1	Gross Opening Equity (Normal)	0.00	0.00	21.90	513.30	723.30
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	0.00	21.90	513.30	723.30
5	Add: Increase in equity due to addition during the year	0.00	21.90	491.40	210.00	0.00
7	Less: Decrease due to De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	0.00	21.90	513.30	723.30	723.30
11	Average Equity (Normal)	0.00	10.95	267.60	618.30	723.30
12	Rate of ROE (%) -Pre Tax	12.15%	12.15%	12.15%	12.15%	12.15%
12a	Rate of ROE (%) -Post Tax	14.72%	14.72%	14.72%	14.72%	14.72%
13	Total ROE	0.00	1.61	39.40	91.03	106.49

(Petitioner)

Plant Characteristics

Name of the Petitioner	NTPC Ltd	
Name of the Generating Station	FGUTPS-II	
Unit(s)/Block(s)/Parameters	Unit-1	Unit-2
Installed Capacity (MW)	210	210
Schedule COD as per Investment Approval		
Actual COD	01.01.2001	01.03.2000
Pit Head or Non Pit Head	Non Pit Head	
Name of the Boiler Manufacture	BHEL	
Name of Turbine Generator Manufacture		
Main Steams Pressure at Turbine inlet (kg/Cm ²) abs.	NA	
Main Steam Temperature at Turbine inlet (°C)		
Reheat Steam Pressure at Turbine inlet (kg/Cm ²)		
Reheat Steam Temperature at Turbine inlet (°C)		
Main Steam flow at Turbine inlet under MCR condition (tons /hr)		
Main Steam flow at Turbine inlet under VWO condition (tons /hr)		
Unit Gross electrical output under MCR /Rated condition (MW)		
Unit Gross electrical output under VWO condition (MW)		
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)		
Conditions on which design turbine cycle heat rate guaranteed		
% MCR		
% Makeup Water Consumption		
Design Capacity of Make up Water System		
Design Capacity of Inlet Cooling System		
Design Cooling Water Temperature (°C)		
Back Pressure		
Steam flow at super heater outlet under BMCR condition(tons/hr)		
Steam Pressure at super heater outlet under		
BMCR condition) (kg/Cm ²)		
Steam Temperature at super heater outlet under		
BMCR condition (°C)		
Steam Temperature at Reheater outlet at BMCR condition(°C)		
Design / Guaranteed Boiler Efficiency (%)		
Design Fuel with and without Blending of domestic/imported coal		
Type of Cooling Tower	IDCT	
Type of cooling system	Closed Cycle	
Type of Boiler Feed Pump	MDBFP	
Type of Boiler Firing (Wall Fired/Tangential Fired)	Tangential Fired	
Fuel Details		
-Primary Fuel	COAL	
-Secondary Fuel	LDO/HFO	
-Alternate Fuels	NA	
Special Features/Site Specific Features		
Special Technological Features	NA	

Plant Characteristics

Name of the Petitioner	NTPC Ltd	
Name of the Generating Station	FGUTPS-II	
Unit(s)/Block(s)/Parameters	Unit-1	Unit-2
Environmental Regulation related features	ESP, FGD(under implementation)	
Any other special features	Ball & Tube Mills	
Petitioner		

Normative parameters considered for tariff computations							PART-I FORM- 3	
Name of the Petitioner:		NTPC Limited						
Name of the Generating Station:		Feroze Gandhi Unchahar Thermal Power Station, Stage-II						
(Year Ending March)								
Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	
1	2	3	4	5	6	7	8	
Base Rate of Return on Equity at normal rate	%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	
Base Rate of Return on Equity on Add. Capitalization at Rate Linked to SBI MCLR	%	7.18%	12.15%	12.15%	12.15%	12.15%	12.15%	
Effective Tax Rate	%	17.47%	17.47%	17.47%	17.47%	17.47%	17.47%	
Target Availability	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.00%	
Peak Hours	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.00%	
Off-Peak Hours	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.00%	
β- Average Monthly Frequency Response Performance ##	0-1	Shall be provided at the time of tgruing up						
Auxiliary Energy Consumption	%	9.80%	9.80%	9.80%	9.80%	9.80%	9.80%	
Gross Station Heat Rate	kCal/kWh	2430.00	2415.00	2415.00	2415.00	2415.00	2415.00	
Specific Fuel Oil Consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50	0.50	
Cost of Coal/Lignite for WC	in Days	50	50	50	50	50	50	
Cost of Main Secondary Fuel Oil for WC	in Months	2	2	2	2	2	2	
Fuel Cost for WC	in Months							
Liquid Fuel Stock for WC	in Months							
O&M Expenses	Rs lakh/MW	37.84	40.92	43.07	45.33	47.71	50.21	
Special Allowance	Rs lakh/MW	9.50	10.75	10.75	10.75	10.75	10.75	
Maintenance Spares for WC	% of O&M	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	
Receivables for WC	in Days	45.00	45.00	45.00	45.00	45.00	45.00	
Storage capacity of Primary fuel*	MT	6.5 Lakh MT						
SBI 1 Year MCLR plus 350 basis point	%	12.00%	11.90%	11.90%	11.90%	11.90%	11.90%	
Blending ratio of domestic coal/imported coal	%	1781.70%	0.00%	0.00%	0.00%	0.00%	0.00%	
Norms for consumption of reagent		To Be Provided at the time of ODe of ECS						
Specific Limestone consumption for Wet Limestone FGD**								
Specific Limestone consumption for Lime Spray Dryer or Semi-dry FGD								
Specific consumption of sodium bicarbonate								
Specific Limestone consumption for CFBC based generating station								
specific urea consumption of the SNCR								
Specific ammonia consumption of the SCR								
Transit and Handling Losses of coal or lignite, as applicable								
*Combined storage capacity of Unchahar Station							Petitioner	

Calculation of O&M Expenses

Name of the Company :	NTPC Limited
Name of the Power Station :	Feroze Gandhi Unchahar Thermal Power Station, Stage-II

Amount in Rs. Lakhs						
S.No	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	O&M expenses under Reg.35(1)					
1a	Normative	17,186.40	18,089.40	19,038.60	20,038.20	21,088.20
2	O&M expenses under Reg.35(6)					
2a	Water Charges	134.94	134.94	134.94	134.94	134.94
2b	Security expenses	1063.82	1148.90	1240.76	1339.94	1446.97
2c	Capital Spares*	0.00	0.00	0.00	0.00	0.00
3	O&M expenses-Ash Transportation	2669.57	2438.71	2303.23	2167.74	2032.26
	Total O&M Expenses	21054.73	21811.95	22717.53	23680.82	24702.37

* Shall be claimed at true-up.

Petitioner

Statement Giving Details of Project Financed through a Combination of loan		
Form 8		
	TRANCHE NO	
BP NO 5050000261	T00001	D00012
Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,50,00,00,00,000	
Date of Drawl	22.07.2013	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.25%	
Upfront fees	0.08% excluding service tax	
Margin, If Floating Interest :	Nil	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	08.07.2011	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-II	67,00,00,000
	FARAKKA-III	35,00,00,000
	SIMHADRI-II	20,00,00,000
	RAMAGUNDAM SOLAR	10,00,00,000
	FGUTPS-I	8,40,09,477
	FGUTPS-II	5,59,90,523
	VSTPS R&M	28,00,00,000
	RAMAGUNDAM-R&M	18,00,00,000
	KORBA-R&M	17,00,00,000
	KAWAS-R&M	17,00,00,000
	BADARPUR-R&M	14,00,00,000
	TSTPP-R&M	10,00,00,000
Total Allocated Amount		2,50,00,00,000.00

WAR							
Bank Loan	Interest Rate	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest	Remarks
State Bank of India - VII	8.2500%	01-Apr-19	14-05-2019	43.00	3.55	7.9342%	
	8.1500%	14-May-19	14-08-2019	92.00	7.50		
	7.9500%	14-Aug-19	14-11-2019	92.00	7.31		
	7.7000%	14-Nov-19	14-02-2020	92.00	7.08		
	7.6500%	14-Feb-20	31-Mar-20	47.00	3.60		
				366.00	29.04	7.9342%	
State Bank of India - VII	7.650%	01-Apr-20	13-May-20	43.00	3.29	6.8560%	
	7.000%	14-May-20	13-Aug-20	92.00	6.44		
	6.650%	14-Aug-20	31-Mar-21	230.00	15.30		
				365.00	25.02		
State Bank of India-VII	6.65%	01-04-2021	31-03-2022	365	24.27	6.65%	
State Bank of India - VII	6.65%	01-04-2022	13-05-2022	43.00	2.86		
State Bank of India - VII	6.75%	14-05-2022	13-08-2022	92.00	6.21		
State Bank of India - VII	7.15%	14-08-2022	13-11-2022	92.00	6.58		
State Bank of India - VII	7.60%	14-11-2022	13-02-2023	92.00	6.99		
State Bank of India - VII	8.00%	14-02-2023	31-03-2023	46.00	3.68		
				365.00	26.32	7.2108%	
State Bank of India - VII	8.00%	01-Apr-23	13-May-23	43.00	3.44		
State Bank of India - VII	8.10%	14-May-23	29-Jun-23	47.00	3.81		Loan Closed
				90.00	7.25	8.05%	

	FORM-8
Name of the Company	NTPC Ltd
Name of the Generating Station:	Unchahar Stage-II
Particulars	
Source of Loan - Bonds Series	55
Currency	INR
Amount of Loan sanctioned (In Lakh)	30,000.00
Amount of Gross Loan drawn upto COD (In Lakh)	30,000.00
Interest Type	Fixed
Fixed Interest Rate, if applicable	7.15%
Base Rate, if Floating Interest	N/A
Margin, if Floating Interest	N/A
Are there any Caps/Floor	No
If above is yes,specify caps/floor	N/A
Moratorium Period (In Years)	10
Moratorium effective from*	21-08-2015
Repayment Period	Bullet Repayment
Repayment effective from	21-08-2025
Repayment Frequency	Bullet Repayment
Repayment Instalment (In Lakh)	30,000.00
Base Exchange Rate	N/A
Door to Door Maturity (In Years)	10
Name of the Projects	55
UNCHA HAR II	1300.00

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2024-29 (Summary)

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)					Justification	Admitted Cost by the Commission, if any
		2024-25	2025-26	2026-27	2027-28	2028-29		
1	2	3	4	5	6	7	8	9
A. Works eligible for RoE at Normal Rate								
1	Up-Gradation of Stage-2 DCS System with cyber security suite	-	1,500.00	5,000.00	5,040.00	3,540.00	Pl. refer Form-9 of respective FYs.	
2	Upgradation of stage-II mills for Flexible Operation	-	-	130.00	2,500.00	10,370.00		
Total additional capitalization claimed with RoE at Normal Rate (A)		-	1,500.00	5,130.00	7,540.00	13,910.00		
B. Works eligible for Return on Equity linked to SBI MCLR:								
1	Installation of Dust Curtain along boundary wall in CHP Area	-	-	1,565.00	700.00	-	Pl. refer Form-9 of respective FYs.	
2	Replacement of Unit 3 & Unit 4 Boiler lifts	-	73.00	73.00		-		
Total additional capitalization claimed with RoE at Wtd. Average Rate of Interest (B)		-	73.000	1,638.000	700.000	-		
Total Add. Cap. Claimed (A+B)		-	1,573.000	6,768.000	8,240.000	13,910.000		

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2024-25

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)						Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Ind AS	Ind AS adjustment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3A	3B	3	4	5= (3-4)	6	7	8	9
A.	Works eligible for RoE at Normal Rate									
1	NA	-	-	-	-	-	-	NA	NA	NA
Sub Total-A		-	-	-	-	-	-			
B.	Works eligible for Return on Equity linked to SBI MCLR:									
1	NA	-		-		-		NA	NA	NA
Sub Total-B						-				
Total Add. Cap. Claimed (A+B)						-				

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2025-26

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)					Cash basis	IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Ind AS	Ind AS Adjustment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3						
1	2	3A	3B	3	4	5= (3-4)	6	7	8	9	
A. Works eligible for RoE at Normal Rate											
1	Up-Gradation of Complete DCS System with cyber security suite	1500.00		1,500.00		1,500.00		25 (2) (b) & 25 (2) (c)	<p>The existing Digital Control System (DCS) of the instant station was installed during the time of Unit Commissioning and has been service for more than 20 years. The DCS at the instant station was based Procontrol system. It has its own proprietary hardware and software system which has become obsolete and not compatible with latest cyber security guidelines in Power System, issued by CEA in compliance of Govt of India policy on Cyber Security, CERT_IN.</p> <p>The CEA Guidelines (2021) for Cyber Security in the Power Sector (attached as Annexure R/1) mandates as under:</p> <p>(i) <i>Phasing out legacy systems,</i></p> <p>(ii) <i>Hardening existing systems with additional security controls in consultation with the OEM, and</i></p> <p>(iii) <i>Maintaining system logs for a minimum of six months.</i></p> <p>In compliance of these mandates, it has become essential to upgrade the existing systems to comply with cyber security guidelines. It is submitted that the proposed upgradation involves upgradation of existing System and implementing a cybersecurity suite for DCS to strengthen system hardening as mandated in the CEA guideline.</p> <p>In view of the above, it is respectfully submitted that the Hon'ble Commission may be pleased to allow the proposed expenditure under Regulations 25(2)(c),25(2)(b) of Tariff Regulations 2024.</p>	NA	
Sub Total-A		1500.00	0.00	1500.00	0.00	1500.00	0.00				

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2025-26

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)					Cash basis	IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Ind AS	Ind AS Adjustment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3						
B. Works eligible for Return on Equity linked to SBI MCLR:											
1	Replacement of Unit 3 & Unit 4 Boiler lifts	73.00		73.00		73.00		26 (1) (b) & 26 (1) (d)	Existing boiler lifts were installed at the time of Commissioning of the Plant and were fitted with only essential facilities required in lift. Since boiler lift caters to movement of both men and material, they are of essential for boiler operation & maintenance. Govt of UP passed UP lift & escalator Act, 2024 which came into force since 26th Feb 2024. The Act provides for the registration and regulation of the construction , installation, maintenance and safe working of lifts and escalators and all machinery and apparatus pertaining thereto in the state of Uttar Pradesh and for the matters connected therewith and incidental to. Section-6 of the Act mandates the provision of an automatic rescue device in the lift to rescue the travelling passengers trapped inside, in case of any break down. The relevant extract of the act is provided as under: "6. The owner shall ensure the provision of installation of an automatic rescue device in the lift to rescue the travelling passengers trapped inside, in case of any breakdown. The device shall be such that the lift reaches at the nearest landing floor and keeping the landing and cage doors open. There shall be adequate light in the lift and two- way communication system to be used by the passenger and emergency bell inside the lift to be used in case of any emergency..." Copy of UP lift & escalator Act, 2024 is attached as Annexure-R/2 Since the existing, boiler lifts were installed at the time of Commissioning of the Unit, there is no support available from OEM. Therefore, considering the safety of the passengers and in order to comply the provisions of the UP lift & escalator Act, 2024, the replacement of the boiler lift is necessary. In view of the above, it is humbly submitted that the Hon'ble Commission may be pleased to allow the proposed expenditure under Regulations 26 (1) (b) & 26 (1) (d) of Tariff Regulations, 2024	NA	
Sub Total-B		73.00		73.00		73.00					
Total Add. Cap.		1,573.00	-	1,573.00	-	1,573.00					

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited									
Name of the Generating Station		Feroze Gandhi Unchahar Thermal Power Station, Stage-II									
COD		01-01-2001									
For Financial Year		2026-27									
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Cash basis	IDC included in col. 3	Regulations under which claimed	Amount in Rs Lakh	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Ind AS	Ind AS Adjustment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3						
1	2	3	4	5= (3-4)	6	7	8	9			
A. Works eligible for RoE at Normal Rate											
1	Up-Gradation of Stage-2 DCS System with cyber security suite	5000.00		5,000.00		5,000.00		25 (2) (b) & 25 (2) (c)	Detailed justification provided at Sl No-A1 of Form-9 25-26	NA	
2	Upgradation of stage-II mills for Flexible Operation	130.00		130.00		130.00		25 (2) (b) & 26 (1) (g) read with 19 (3) (g)	<p>Unchahar Stage-II has been provided with Ball & Tube Mills. One Ball & Tube Mill caters to the two boiler elevations which in other words refers to catering to two mills of conventional mills. The tube body of the mill has a bed containing mix of raw coal with balls, which on rotation cause grinding of coal. Due to presence of pulverised coal bed inside the tube mill, it is kept completely cutoff with boiler when same is not in service. Two mills are required to run the Unit at full load and caters to four boiler coal firing elevations. When unit is to be operated at part load, it requires one mill to be stopped to match with load otherwise Unit has to run at higher load than the scheduled given to station from load despatch centre. If three elevations are kept in service by running one mill half by closing its out let gates for longer period, there is potential fire risk, and boiler instability. Further, the starting and stopping of the tube mills require good amount of time due to its start up and shut down procedure. Due to above reasons, these mills are only suitable for base load operation and are misfit for the frequent start up and start up, as required for flexible operation of the Plant.</p> <p>For flexible operation, frequent start-stops & regulating the load by cutting one elevation of the mill and taking back poses risk for boiler stability as well as creates fire hazard. Unchahar station being not pit head station, it requires frequent load variation and start up/shutdown to meet the load demand as per schedule given by the beneficiaries.</p> <p>It is submitted that, the Central Electricity Authority's (CEA) Flexible Operation of Coal-Based Thermal Power Generating Units Regulations, 2023 (attached as Annexure-R/3) mandates that coal-based thermal power generating units must be capable of flexible operation. The regulations further stipulate that these units should be designed or retrofitted, if necessary, to meet the flexibility requirements. Further, it is submitted that Hon'ble commission acknowledges the inclusion of capital expenditure for enabling Flexible operation in capital cost as per provision of regulation 19(3)(g).</p> <p>Accordingly, the existing ball & Tube mills need to be replaced with conventional mill to enable the station to comply with the requirement of flexible operation.</p> <p>In view of the above, it is humbly submitted that Hon'ble Commission may be pleased to allow said expenditure under Regulations 26 (1) (b) & 26 (1) (g) read with 19 (3) (g).</p>	NA	
Sub Total-A		5,130.00	-	5,130.00	-	5,130.00					

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited									
Name of the Generating Station		Feroze Gandhi Unchahar Thermal Power Station, Stage-II									
COD		01-01-2001									
For Financial Year		2026-27									
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Cash basis	IDC included in col. 3	Regulations under which claimed	Amount in Rs Lakh	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Ind AS	Ind AS Adjustment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3						
				-		-					
1	Installation of Dust Curtain along boundary wall in CHP Area	1,565.00		1,565.00		1,565.00		26 (1) (b)	Uttar Pradesh Pollution Control Board (UPPCB) vide its letter dated 20.11.2023 directed NTPC under Industrial Air Pollution (Pollution Prevention & Control) Act, 1981 (As amended) to present a time bound work plan before the board to ensure that air missed with coal particle do not digress the plant boundary to reach Bikai village when air blows from east. In compliance of the direction of UPPCB, Dust Curtain along boundary wall in CHP Area is to be installed to prevent the fine coal dust particles going along with air out side the CHP boundary. The direction from UPPCB dated 20.11.2023 is attached as Annexure-R/4 . In view of the above, it is humbly submitted that Hon'ble Commission may be pleased to allow said expenditure under Regulations 26 (1) (b).	NA	
2	Replacement of Unit 3 & Unit 4 Boiler lifts	73.00		73.00		73.00		26 (1) (b) & 26 (1) (d)	Detailed justification provided at Sl No-B1 of Form-9 25-26	NA	
Sub Total-B		6,898.00	-	6,898.00	-	6,898.00					
Total Add. Cap. Claimed (A+B)		12,028.00	-	12,028.00	-	12,028.00					

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2027-28

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)					Regulations under which claimed	Justification	Admitted Cost by the Commission, if any	
		Accrual basis as per Ind AS	Ind AS Adjustment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis				IDC included in col. 3
1	2			3	4	5= (3-4)	6	7	8	9
A. Works eligible for RoE at Normal Rate										
1	Up-Gradation of Stage-2 DCS System with cyber security suite	5040		5,040.00		5,040.00		25 (2) (b) & 25 (2) (c)	Detailed justification provided at SI No-A1 of Form-9 25-26	NA
2	Upgradation of stage-II mills for Flexible Operation	2500		2,500.00		2,500.00		25 (2) (b) & 26 (1) (g) read with 19 (3) (g)	Detailed justification provided at SI No-A2 of Form-9 25-26	NA
Sub Total-A		7,540.00	-	7,540.00	-	7,540.00				
B. Works eligible for Return on Equity linked to SBI MCLR:										
1	Installation of Dust Curtain along boundary wall in CHP Area	700.00		700.00		700.00		26 (1) (b)	Detailed justification provided at SI No-B2 of Form-9 26-27	NA
Sub Total-B		10,740.00	-	10,740.00	-	10,740.00				
Total Add. Cap. Claimed (A+B)		18,280.00	-	18,280.00	-	18,280.00				

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2028-29

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)					Regulations under which claimed	Justification	Admitted Cost by the Commission, if any	
		Accrual basis as per Ind AS	Ind AS Adjustme nt	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis				IDC include d in col. 3
1	2			3	4	5= (3-4)	6	7	8	9
A. Works eligible for RoE at Normal Rate										
1	Up-Gradation of Stage-2 DCS System with cyber security suite	3540.00	-	3,540.00	-	3,540.00		25 (2) (b) & 25 (2) (c)	Detailed justification provided at SI No-A1 of Form-9 25-26	NA
2	Upgradation of stage-II mills for Flexible Operation	10370.00	-	10,370.00	-	10,370.00		25 (2) (b) & 26 (1) (g) read with 19 (3) (g)	Detailed justification provided at SI No-A2 of Form-9 25-26	NA
Sub Total-A		13910.00	-	13910.00	-	13910.00				
B. Works eligible for Return on Equity linked to SBI MCLR:										
1	NA	-	-	-	-	-		NA	NA	NA
Sub Total-B		-	-	-	-	-				
Total Add. Cap. Claimed (A+B)		13,910.00	-	13,910.00	-	13,910.00	-			

(Petitioner)

Financing of Additional Capitalisation

**PART-I
FORM- 10**

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
Date of COD	01-01-2001

Amount in Rs Lakh

Financial Year (Starting from COD) ¹	Actual					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
1		3	4	5	6	7	8	9	10	11

Amount capitalised in Work/ Equipment

Financing Details	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.
Loan-1	
Loan-2	
Loan-3 and so on	
Total Loan2	
Equity	
Internal Resources	
Others (Pl. specify)	
Total	

(Petitioner)

Statement of Depreciation							PART-I FORM- 12
Name of the Company :			NTPC Limited				
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II				
(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Opening Capital Cost	12945.20	12945.70	12945.70	12945.70	12945.70	12945.70
2	Closing Capital Cost	12945.70	12945.70	12945.70	12945.70	12945.70	12945.70
3	Average Capital Cost	12950.45	12945.70	12945.70	12945.70	12945.70	12945.70
1a	Cost of IT Equipments & Software included in (1) above	417.39	417.39	417.39	417.39	417.39	417.39
2a	Cost of IT Equipments & Software included in (2) above	417.39	417.39	417.39	417.39	417.39	417.39
3a	Average Cost of IT Equipments & Software	417.39	417.39	417.39	417.39	417.39	417.39
4	Freehold land	436.51	436.51	436.51	436.51	436.51	436.51
5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%
6	Depreciable value	1,16,199.28	1,16,159.01	1,16,159.01	1,16,159.01	1,16,159.01	1,16,159.01
7.	Balance useful life at the beginning of the period	2.33	1.33	1.00	1.00	1.00	1.00
8	Remaining depreciable value	8,182.66	4,716.11	1,170.16	-	-	-
9	Depreciation (for the period)	3,511.87	3,545.94	1,170.16	-	-	-
10	Depreciation (annualised)	3,511.87	3,545.94	1,170.16	-	-	-
11	Cumulative depreciation at the end of the period	1,11,528.49	1,14,988.85	1,16,159.01	1,16,159.01	1,16,159.01	1,16,159.01
12	Less: Cumulative depreciation adjustment on account of undischarged liabilities deducted as on 01.04.2009	0.00	0.00	0.00	0.00	0.00	0.00
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	0.00	0.00	0.00	0.00	0.00
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	85.59	0.00	0.00	0.00	0.00	0.00
15	Net Cumulative depreciation at the end of the period after adjustments	1,11,442.91	1,14,988.85	1,16,159.01	1,16,159.01	1,16,159.01	1,16,159.01

Statement of Depreciation For New Assets Added After 20 Years of COD							PART-I FORM- 12
Name of the Company :			NTPC Limited				
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II				
(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Opening Capital Cost	-	-	-	1,573.00	8,341.00	16,581.00
	Add Cap During the Year			1,573.00	6,768.00	8,240.00	13,910.00
2	Closing Capital Cost	-	-	1,573.00	8,341.00	16,581.00	30,491.00
3	Average Capital Cost	-	-	786.50	4,957.00	12,461.00	23,536.00
1a	Cost of IT Equipments & Software included in (1) above	-	-	-	-	-	-
2a	Cost of IT Equipments & Software included in (2) above	-	-	-	-	-	-
3a	Average Cost of IT Equipments & Software	-	-	-	-	-	-
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%
6	Depreciable value	0.00	0.00	707.85	4,461.30	11,214.90	21,182.40
7.	Balance useful life at the beginning of the period	2.33	1.33	0.33	0.00	0.00	0.00
7a	Effective Balance useful life at the beginning of the period for Add Cap After 20 Years	12.33	11.33	10.33	9.33	8.33	7.33
8	Remaining depreciable value	-	-	707.85	4,392.75	10,675.33	19,360.67
9	Depreciation (for the period)	-	-	68.55	471.02	1,282.16	2,642.72
10	Depreciation (annualised)	-	-	68.55	471.02	1,282.16	2,642.72
11	Cumulative depreciation at the end of the period	-	-	68.55	539.57	1,821.73	4,464.45
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0.00	0.00	0.00	0.00	0.00	0.00
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	0.00	0.00	0.00	0.00	0.00
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00	0.00
15	Net Cumulative depreciation at the end of the period after adjustments	-	-	68.55	539.57	1,821.73	4,464.45

Petitioner

Calculation of Weighted Average Rate of Interest on Loan.

Name of Company: NTPC LTD.
Name of the Power Station: FGUTPS- Stage II

	2019-20	2020-21	2021-22	2022-23	2023-24
SBI VII D-12					
Net Loan Opening	279.95	209.96	139.98	69.99	0.00
Additions					
Repayment	69.99	69.99	69.99	69.99	0.00
Net Loan Closing	209.96	139.98	69.99	0.00	0.00
Avg Loan	244.96	174.97	104.98	34.99	0.00
Rate of Interest	7.9417%	6.8635%	6.6575%	7.2183%	8.0597%
Interest	19.45	12.01	6.99	2.53	0.00

BOND-55					
Net Loan Opening	0.00	1300.00	1300.00	1300.00	1300.00
Additions	1300.00				
Repayment	0.00	0.00	0.00	0.00	0.00
Net Loan Closing	1300.00	1300.00	1300.00	1300.00	1300.00
Avg Loan	650.00	1300.00	1300.00	1300.00	1300.00
Rate of Interest	7.1800%	7.1800%	7.1800%	7.1800%	7.1800%
Interest	46.67	93.34	93.34	93.34	93.34

Total Loan

Net Loan Opening	279.95	1509.96	1439.98	1369.99	1300.00
Additions	1300.00	0.00	0.00	0.00	0.00
Repayment	69.99	69.99	69.99	69.99	0.00
Net Loan Closing	1509.96	1439.98	1369.99	1300.00	1300.00
Avg Loan	894.96	1474.97	1404.98	1334.99	1300.00
Rate of Interest	7.3885%	7.1425%	7.1410%	7.1810%	7.1800%
Interest	66.12	105.35	100.33	95.87	93.34

Note:-

SBI VII Rate of interest includes upfront fees of 0.0075% (i.e. 0.08%*1.1236%/12years).

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Apr-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	1,89,033	1,00,360	
2	Value of Stock	(Rs.)	88,96,69,445	1,54,70,87,057	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,03,064	1,17,811	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-785		
5	Coal supplied by Coal Company (1+2)	(MT)	4,02,279	1,17,811	
6	Normative Transit & Handling Losses	(MT)	3,225	236	
7	Net coal / Lignite Supplied (3-4)	(MT)	3,99,055	1,17,576	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,27,37,47,315	1,73,34,68,274	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-	
10	Unloading, Handling and Sampling Charges	(Rs.)	6,95,14,931	-	
11	Total amount Charged (6+7)	(Rs.)	1,34,32,62,246	1,73,34,68,274	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	56,63,45,964	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	56,63,45,964	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	1,90,96,08,210	1,73,34,68,274	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,759.97	15,052.87	-
19	Blending Ratio	%	100.00%	0.00%	0.00%
20	Weighted average cost of coal	Rs./MT	4759.96		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3800.00		
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3731.00		
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)		5023.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)		5030.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3749.12		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3749.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3811.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5029.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		5067.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3790.75		

Petitioner

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	May-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	2,26,541	1,67,785	
2	Value of Stock	(Rs.)	1,07,83,26,951	2,52,56,39,399	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,87,502	50,732	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-1,107		
5	Coal supplied by Coal Company (1+2)	(MT)	4,86,395	50,732	
6	Normative Transit & Handling Losses	(MT)	3,900	101	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,82,495	50,631	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,58,71,40,693	72,00,82,415	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-	
10	Unloading, Handling and Sampling Charges	(Rs.)	8,50,41,697	-	
11	Total amount Charged (6+7)	(Rs.)	1,67,21,82,390	72,00,82,415	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	68,37,65,551	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	68,37,65,551	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,35,59,47,941	72,00,82,415	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,843.59	14,860.34	-
19	Blending Ratio	%	100.00%	0.00%	0.00%
20	Weighted average cost of coal	Rs./MT	4843.58		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3749.00		0.00
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3811.00		0.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)		5029.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)		5067.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3790.75		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3791.00		0.00
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3893.00		0.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5049.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		5164.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3860.27		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Jun-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	3,29,288	1,63,924	-
2	Value of Stock	(Rs.)	1,59,49,34,694	2,43,59,67,735	-
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	3,92,570	-	-
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-209		
5	Coal supplied by Coal Company (1+2)	(MT)	3,92,361	-	-
6	Normative Transit & Handling Losses	(MT)	3,141	-	-
7	Net coal / Lignite Supplied (3-4)	(MT)	3,89,220	-	-
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,42,45,51,998	-	-
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-	-
10	Unloading, Handling and Sampling Charges	(Rs.)	8,76,75,423		
11	Total amount Charged (6+7)	(Rs.)	1,51,22,27,421	-	-
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	53,55,33,233	-	-
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	53,55,33,233	-	-
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,04,77,60,654	-	-
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	5,069.81	14,860.34	-
19	Blending Ratio	%	100.00%	0.00%	0.00%
20	Weighted average cost of coal	Rs./MT	5069.80		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3791.00		0.00
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3893.00		0.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)		5049.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)		5164.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3860.27		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3680.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3823.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5076.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		0.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3839.99		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Jul-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	3,04,557	95,796	
2	Value of Stock	(Rs.)	1,54,40,45,327	1,42,35,63,378	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,11,326	39,120	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-189		
5	Coal supplied by Coal Company (1+2)	(MT)	4,11,137	39,120	
6	Normative Transit & Handling Losses	(MT)	3,291	78	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,07,846	39,041	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,49,18,44,402	66,55,40,412	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	11,70,44,730	-5,84,55,057	
10	Unloading, Handling and Sampling Charges	(Rs.)			
11	Total amount Charged (6+7)	(Rs.)	1,60,88,89,132	60,70,85,355	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	57,24,98,529	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	57,24,98,529	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,18,13,87,661	60,70,85,355	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	5,229.38	15,059.96	-
19	Blending Ratio	%	100.00%	0.00%	0.00%
20	Weighted average cost of coal	Rs./MT	5229.38		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3680.00		
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3823.00		
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)		5076.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)		0.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3839.99		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3840.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3831.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5076.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		5417.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3835.00		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Aug-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	2,65,459	64,129	
2	Value of Stock	(Rs.)	1,38,81,85,509	96,57,74,092	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,36,181	78,217	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-132		
5	Coal supplied by Coal Company (1+2)	(MT)	4,36,049	78,217	
6	Normative Transit & Handling Losses	(MT)	3,489	156	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,32,560	78,060	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,44,48,01,629	1,14,74,74,085	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-	
10	Unloading, Handling and Sampling Charges	(Rs.)	13,33,68,386	-	
11	Total amount Charged (6+7)	(Rs.)	1,57,81,70,016	1,14,74,74,085	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	63,81,95,470	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	63,81,95,470	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,21,63,65,486	1,14,74,74,085	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	5,163.98	14,862.25	-
19	Blending Ratio	%	97.40%	2.60%	0.00%
20	Weighted average cost of coal	Rs./MT	5416.50		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3840.00		
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3831.00		
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)		5076.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)		5417.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3835.00		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3835.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3595.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5175.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		4920.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3719.15		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Sep-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	1,91,907	64,264	
2	Value of Stock	(Rs.)	99,10,00,773	95,51,07,268	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	3,35,545	50,268	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-1,608		
5	Coal supplied by Coal Company (1+2)	(MT)	3,33,938	50,268	
6	Normative Transit & Handling Losses	(MT)	2,684	101	
7	Net coal / Lignite Supplied (3-4)	(MT)	3,31,254	50,167	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,07,75,74,220	67,63,05,155	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-1,66,06,180	
10	Unloading, Handling and Sampling Charges	(Rs.)	9,62,83,788		
11	Total amount Charged (6+7)	(Rs.)	1,17,38,58,008	65,96,98,975	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	46,97,66,749	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	46,97,66,749	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	1,64,36,24,757	65,96,98,975	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	5,035.98	14,111.56	-
19	Blending Ratio	%	97.11%	2.89%	0.00%
20	Weighted average cost of coal	Rs./MT	5298.26		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3835.00		
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3595.00		
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)		5175.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)		4920.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3719.15		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3684.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3625.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5034.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		5225.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3688.55		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Oct-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	52,714	45,496	
2	Value of Stock	(Rs.)	26,54,67,059	64,20,14,427	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,34,626	26,371	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-3,809		
5	Coal supplied by Coal Company (1+2)	(MT)	4,30,817	26,371	
6	Normative Transit & Handling Losses	(MT)	3,477	53	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,27,340	26,318	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,27,71,80,090	35,44,29,407	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-	
10	Unloading, Handling and Sampling Charges	(Rs.)	7,10,65,202	-	
11	Total amount Charged (6+7)	(Rs.)	1,34,82,45,293	35,44,29,407	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	54,98,83,574	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	54,98,83,574	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	1,89,81,28,867	35,44,29,407	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,506.98	13,875.36	-
19	Blending Ratio	%	95.93%	4.07%	0.00%
20	Weighted average cost of coal	Rs./MT	4887.98		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3684.00	0.00	
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3625.00	0.00	
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	0.00	5034.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)	0.00	5225.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3688.55		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3646.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3728.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5119.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		5179.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3777.04		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Nov-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	11,307	16,289	
2	Value of Stock	(Rs.)	5,09,62,102	22,60,14,248	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,74,849	52,743	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-6,527		
5	Coal supplied by Coal Company (1+2)	(MT)	4,68,322	52,743	
6	Normative Transit & Handling Losses	(MT)	3,799	105	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,64,523	52,638	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,46,47,54,177	69,50,67,018	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-	
10	Unloading, Handling and Sampling Charges	(Rs.)	6,14,81,317		
11	Total amount Charged (6+7)	(Rs.)	1,52,62,35,494	69,50,67,018	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	65,86,22,213	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	65,86,22,213	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,18,48,57,706	69,50,67,018	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,698.77	13,363.18	-
19	Blending Ratio	%	94.84%	5.16%	0.00%
20	Weighted average cost of coal	Rs./MT	5146.07		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3646.00	0.00	
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3728.00	0.00	
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	0.00	5119.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)	0.00	5179.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3777.04		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3719.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3829.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5142.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		5197.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3895.65		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Dec-23		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	1,15,375	9,391	
2	Value of Stock	(Rs.)	54,21,19,249	12,54,90,981	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,70,416	46,288	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-3,977		
5	Coal supplied by Coal Company (1+2)	(MT)	4,66,438	46,288	
6	Normative Transit & Handling Losses	(MT)	3,763	93	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,62,675	46,195	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,30,81,78,836	63,31,33,878	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-70,65,042	
10	Unloading, Handling and Sampling Charges	(Rs.)	6,51,11,122		
11	Total amount Charged (6+7)	(Rs.)	1,37,32,89,959	62,60,68,836	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	63,63,01,217	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	63,63,01,217	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,00,95,91,175	62,60,68,836	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,414.35	13,520.71	-
19	Blending Ratio	%	95.03%	4.97%	0.00%
20	Weighted average cost of coal	Rs./MT	4866.97		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3719.00		
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3829.00		
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)		5142.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)		0.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3895.65		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3825.00		
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3472.00		
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		5184.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)		5140.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3613.99		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Jan-24		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	1,99,700	9,060	
2	Value of Stock	(Rs.)	88,15,47,029	12,24,95,264	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,91,478	51,321	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-3,335		
5	Coal supplied by Coal Company (1+2)	(MT)	4,88,143	51,321	
6	Normative Transit & Handling Losses	(MT)	3,905	103	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,84,238	51,218	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,47,51,67,913	81,21,71,281	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-	
10	Unloading, Handling and Sampling Charges	(Rs.)	1,06,74,426		
11	Total amount Charged (6+7)	(Rs.)	1,48,58,42,339	81,21,71,281	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	57,55,58,340	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	57,55,58,340	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,06,14,00,679	81,21,71,281	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,302.94	15,505.95	-
19	Blending Ratio	%	95.47%	4.53%	0.00%
20	Weighted average cost of coal	Rs./MT	4810.39		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3825.00	0.00	
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3472.00	0.00	
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	0.00	5184.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)	0.00	0.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3613.99		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3534.00	0.00	
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3743.00	0.00	
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)	0.00	5147.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	0.00	5031.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3744.66		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Feb-24		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	2,58,327	14,915	
2	Value of Stock	(Rs.)	1,11,15,64,382	23,12,70,090	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	5,01,358	39,908	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-4,027		
5	Coal supplied by Coal Company (1+2)	(MT)	4,97,331	39,908	
6	Normative Transit & Handling Losses	(MT)	3,979	80	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,93,352	39,828	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,45,29,98,746	46,66,24,005	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-1,31,98,696	
10	Unloading, Handling and Sampling Charges	(Rs.)	3,48,63,076		
11	Total amount Charged (6+7)	(Rs.)	1,48,78,61,822	45,34,25,309	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	67,14,55,311	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	67,14,55,311	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,15,93,17,133	45,34,25,309	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,351.43	12,507.38	-
19	Blending Ratio	%	94.92%	5.08%	0.00%
20	Weighted average cost of coal	Rs./MT	4765.43		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3534.00	0.00	
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3743.00	0.00	
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	0.00	5147.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)	0.00	5031.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3744.66		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3683.00	0.00	
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3661.00	0.00	
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)	0.00	5048.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	0.00	5149.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3743.00		
			Petitioner		

Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15		
Name of the Company :			NTPC Limited		
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II		
S. No.	Month	Unit	Mar-24		
			Domestic (Rail)	Imported	Bio Mass
A)	OPENING QUANTITY				
1	Opening Quantity of Coal/ Lignite	(MT)	4,46,668	18,691	
2	Value of Stock	(Rs.)	1,94,36,46,278	23,37,79,335	
B)	QUANTITY				
3	Quantity of Coal supplied by Coal Company	(MT)	4,59,623	46,534	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-3,619		
5	Coal supplied by Coal Company (1+2)	(MT)	4,56,004	46,534	
6	Normative Transit & Handling Losses	(MT)	3,648	93	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,52,356	46,441	
C)	PRICE				
8	Amount charged by the Coal Company	(Rs.)	1,42,72,78,706	65,61,88,965	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-	-3,59,59,270	
10	Unloading, Handling and Sampling Charges	(Rs.)	6,23,65,247		
11	Total amount Charged (6+7)	(Rs.)	1,48,96,43,952	62,02,29,695	
D)	TRANSPORTATION				
12	Transportation charges by rail ship, road transport	(Rs.)	59,23,08,769	-	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)			
14	Demurrage Charges, if any	(Rs.)			
15	Cost of fuel in transporting coal through MGR system, if applicable	(Rs.)			
16	Total Transportation Charges (9+10+11+12)	(Rs.)	59,23,08,769	-	
17	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	2,08,19,52,721	62,02,29,695	
E)	TOTAL COST				
18	Landed cost of coal (14)/(5)	Rs./MT	4,477.74	13,111.92	-
19	Blending Ratio	%	94.73%	5.27%	0.00%
20	Weighted average cost of coal	Rs./MT	4932.75		
F)	QUALITY				
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	3683.00	0.00	
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/Kg)	3661.00	0.00	
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)	0.00	5048.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)	0.00	5149.00	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3743.00		
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/Kg)	3669.00	0.00	
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3682.00	0.00	
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)	0.00	5122.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	0.00	5118.00	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3751.00		
			Petitioner		

Details of Secondary Fuel for Computation of Energy Charges				
Name of the Company :			NTPC Limited	
Name of the Power Station :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Apr-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	952.59
2	Value of Opening	(Rs)	3,16,06,811.00	8,09,44,692.83
3	Quantity of Oil supplied by Oil Company	KL	-	
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	-	
8	Amount charged by the Oil Company	(Rs)	-	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	84,973.22
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		84973.22	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,198.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9239.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	May-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	612.79
2	Value of Opening	(Rs)	3,16,06,811.00	5,20,70,955.55
3	Quantity of Oil supplied by Oil Company	KL	-	
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	
6	Normative Transit & Handling Losses	KL		
7	Net Oil Supplied (5-6)	KL	-	
8	Amount charged by the Oil Company	(Rs)	-	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)		
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	84,973.47
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		84973.47	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,198.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9239.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Jun-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	234.37
2	Value of Opening	(Rs)	3,16,06,811.00	1,99,15,570.67
3	Quantity of Oil supplied by Oil Company	KL	-	400.000
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	400.00
6	Normative Transit & Handling Losses	KL	-	
7	Net Oil Supplied (5-6)	KL	-	400.00
8	Amount charged by the Oil Company	(Rs)	-	2,86,01,180
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	2,86,01,180.00
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	2,86,01,180.00
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	76,480.14
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		76480.14	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,239.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9240.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Jul-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	450.80
2	Value of Opening	(Rs)	3,16,06,811.00	3,44,77,411.60
3	Quantity of Oil supplied by Oil Company	KL	-	1,000.000
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	1,000.00
6	Normative Transit & Handling Losses	KL	-	
7	Net Oil Supplied (5-6)	KL	-	1,000.00
8	Amount charged by the Oil Company	(Rs)	-	7,55,07,386
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	7,55,07,386.00
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	7,55,07,386.00
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	75,809.73
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		75809.73	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,240.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9238.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Aug-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	1,120.44
2	Value of Opening	(Rs)	3,16,06,811.00	8,49,40,236.69
3	Quantity of Oil supplied by Oil Company	KL	-	
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	-
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	-	-
8	Amount charged by the Oil Company	(Rs)	-	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	-
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	-
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	75,809.67
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		75809.67	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,238.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9238.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Sep-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	673.65
2	Value of Opening	(Rs)	3,16,06,811.00	5,10,69,335.20
3	Quantity of Oil supplied by Oil Company	KL	-	
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	-
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	-	-
8	Amount charged by the Oil Company	(Rs)	-	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	-
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	-
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	75,809.85
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		75809.85	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,238.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9238.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Oct-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	84.35
2	Value of Opening	(Rs)	3,16,06,811.00	63,94,829.84
3	Quantity of Oil supplied by Oil Company	KL	3,163.69	2,000.00
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	3,163.69	2,000.00
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	3,163.69	2,000.00
8	Amount charged by the Oil Company	(Rs)	29,37,35,028.00	18,83,68,851.00
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	29,37,35,028.00	18,83,68,851.00
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	29,37,35,028.00	18,83,68,851.00
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	85,252.65	93,440.94
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		93440.94	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,238.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9187.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Nov-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	32.10
2	Value of Opening	(Rs)	3,16,06,811.00	29,99,823.06
3	Quantity of Oil supplied by Oil Company	KL	-	1,000.00
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	1,000.00
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	-	1,000.00
8	Amount charged by the Oil Company	(Rs)	-	8,86,62,946.00
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	8,86,62,946.00
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	8,86,62,946.00
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	88,811.86
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		88811.86	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,187.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9739.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Dec-23	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	308.21
2	Value of Opening	(Rs)	3,16,06,811.00	2,73,72,966.97
3	Quantity of Oil supplied by Oil Company	KL	-	1,000.00
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	1,000.00
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	-	1,000.00
8	Amount charged by the Oil Company	(Rs)	-	7,90,93,146.00
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	7,90,93,146.00
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	7,90,93,146.00
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	81,383.01
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		81383.01	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,739.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9511.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Jan-24	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	1,029.30
2	Value of Opening	(Rs)	3,16,06,811.00	8,37,67,718.74
3	Quantity of Oil supplied by Oil Company	KL	-	-
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	-
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	-	-
8	Amount charged by the Oil Company	(Rs)	-	-
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	-
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	-
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	81,383.06
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		81383.06	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,739.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9511.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Feb-24	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	467.25
2	Value of Opening	(Rs)	3,16,06,811.00	3,80,26,518.29
3	Quantity of Oil supplied by Oil Company	KL	3,158.470	1,000.000
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	3,158.47	1,000.00
6	Normative Transit & Handling Losses	KL		
7	Net Oil Supplied (5-6)	KL	3,158.47	1,000.00
8	Amount charged by the Oil Company	(Rs)	24,50,23,090.00	7,95,65,146
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	24,50,23,090.00	7,95,65,146.00
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	24,50,23,090.00	7,95,65,146.00
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	72,587.45	80,144.01
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		80144.01	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,511.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9384.00	
			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 :			Feroze Gandhi Unchahar Thermal Power Station, Stage-II	
Sl.No.	Month	Unit	Mar-24	
			HFO	LDO
1	Opening Quantity of Oil	KL	652.52	743.90
2	Value of Opening	(Rs)	3,16,06,811.00	5,96,19,511.95
3	Quantity of Oil supplied by Oil Company	KL	-	
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		
5	Oil supplied by oil company (3+4)	KL	-	-
6	Normative Transit & Handling Losses	KL	-	-
7	Net Oil Supplied (5-6)	KL	-	-
8	Amount charged by the Oil Company	(Rs)	-	
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)		
10	Handling, Sampling and such other Similar Charges	(Rs)		
11	Total amount charged (8+9+10)	(Rs)	-	-
12	Transportation charges by rail / ship / road transport			
	By Rail	(Rs)		
	By Road	(Rs)		
	By Ship	(Rs)		
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)		
14	Demurrage Charges, if any	(Rs)		
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)		
16	Total Transportation Charges (12+/-13-14+15)	(Rs)	-	-
17	Total amount Charged for fuel supplied including Transportation (11+16)	(Rs)	-	-
18	Landed Cost of Oil (LDO/HFO) (2+17)/(1+7)	(Rs)	48,438.22	80,144.53
19	Blending Ratio		0%	100.00%
20	Weighted average cost of Oil		80144.53	
21	GCV of Oil of the Opening stock as per bill of Oil company	(kCal/Ltr)		
22	GCV of oil supplied as per bill of oil company	(kCal/Ltr)		
23	GCV if Imported coal of the opening stock as per bill of Oil company	(kCal/Ltr)		
24	GCV of Imported Oil supplied as per bill of coal company	(kCal/Ltr)		
25	Weighted average GCV if Oil as billed	(kCal/Ltr)		
26	GCV of Oil of the Opening stock as received at station	(kCal/Ltr)		
27	GCV of Oil supplied	(kCal/Ltr)		9,511.00
28	GCV of Imported coal of the Opening stock as received at station	(kCal/Ltr)		
29	GCV of Imported coal supplied as received at station	(kCal/Ltr)		
30	Weighted average GCV of Oil	(kCal/Ltr)	9384.00	
			Petitioner	

Computation of Energy Charges

Name of the Company	NTPC Limited
Name of the Power Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II

Computation of Energy Charges

	2024-25	2025-26	2026-27	2027-28	2028-29
1 Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh) $(REC)_s = (Q_s)_n \times P_s$	4.080	4.080	4.080	4.080	4.080
2 Heat Contribution from SFO / Alternate Fuel $(H_s) = (Q_s)_n \times (GCV)_s$	4.673	4.673	4.673	4.673	4.673
3 Heat Contribution from coal $(H_p)_s = GHR - H_s$	2410.33	2410.33	2410.33	2410.33	2410.33
4 Specific Primary Fuel Consumption $(Q_p)_n = H_p / (GCV)_p$	0.654	0.654	0.654	0.654	0.654
5 Rate of Energy charge from Primary Fuel (p/kwh) $(REC)_p$	327.054	327.054	327.054	327.054	327.054
6 Rate of Energy charge ex-bus (p/kWh) $(REC) = ((REC)_s + (REC)_p) / (1-(AUX))$	331.458	331.458	331.458	331.458	331.458

Petitioner

Computation of Energy Charges

Name of the Company		NTPC Limited				
Name of the Power Station		Feroze Gandhi Unchahar Thermal Power Station, Stage-II				
		2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the period	Days	365	365	365	366	365
No of Days in the year	Days	365	365	365	366	365
Sp. Oil consumption	ml/kwh	0.5	0.5	0.5	0.5	0.5
Auxiliary consumption	%	9.80%	9.80%	9.80%	9.80%	9.80%
Heat Rate	Kcal/Kwh	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00

Computation of Variable Charges

Variable Charge (Coal)	p/kwh	362.587	362.587	362.587	362.587	362.587
Variable Charge (Oil)	p/kwh	4.523	4.523	4.523	4.523	4.523
Total	p/kwh	367.110	367.110	367.110	367.110	367.110

Price of fuel from Form-15/15A

Coal Cost	(Rs./MT)	5002.28	5002.28	5002.28	5002.28	5002.28
Oil Cost	(Rs./KL)	81596.96	81596.96	81596.96	81596.96	81596.96

Computation of Fuel Expenses for Calculation of IWC:

ESO in a year	(MUs)	2820.84	2820.84	2820.84	2828.57	2820.84
ESO for 50 days	(MUs)	386.417	386.417	386.417	386.417	386.417
Cost of coal for 50 Days	(Rs. Lakh)	14010.98	14010.98	14010.98	14010.98	14010.98
Cost of oil for 2 months	(Rs. Lakh)	212.65	212.65	212.65	213.23	212.65
Energy Expenses for 45 days	(Rs. Lakh)	12767.19	12767.19	12767.19	12767.19	12767.19

Coal		2024-25	2025-26	2026-27	2027-28	2028-29
Wtd. Avg. Price of Coal	Rs./MT	5002.28	5002.28	5002.28	5002.28	5002.28
Wtd. Avg. GCV of Coal as received	kCal/Kg	3771.59	3771.59	3771.59	3771.59	3771.59
Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg	kCal/Kg	3686.59	3686.59	3686.59	3686.59	3686.59
Sec. Oil						
Wtd. Avg. Price of Secondary Fuel	Rs/KL	81596.96	81596.96	81596.96	81596.96	81596.96
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9345.67	9345.67	9345.67	9345.67	9345.67

Petitioner

Statement of Capital cost

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2024-29

(Rs Lakh)

Sl. No.	Particulars	2024-25			2025-26			2026-27			2027-28			2028-29		
		Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	1,37,513.67	116.85	1,37,396.82	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.											
	b) Amount of IDC in A(a) above	151.18		151.18												
	c) Amount of FC in A(a) above	0.00		-												
	d) Amount of FERV in A(a) above	338.73		338.73												
	e) Amount of Hedging Cost in A(a) above	0.00		-												
	f) Amount of IEDC in A(a) above	0.00		-												
B	a) Addition in Gross Block Amount during the period (Direct purchases)	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in B(a) above															
	c) Amount of FC in B(a) above															
	d) Amount of FERV in B(a) above															
	e) Amount of Hedging Cost in B(a) above															
	f) Amount of IEDC in B(a) above															
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in C(a) above															
	c) Amount of FC in C(a) above															
	d) Amount of FERV in C(a) above															
	e) Amount of Hedging Cost in C(a) above															
	f) Amount of IEDC in C(a) above															
D	a) Deletion in Gross Block Amount during the period	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in D(a) above															
	c) Amount of FC in D(a) above															
	d) Amount of FERV in D(a) above															
	e) Amount of Hedging Cost in D(a) above															
	f) Amount of IEDC in D(a) above															
E	a) Closing Gross Block Amount as per books	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in E(a) above															
	c) Amount of FC in E(a) above															
	d) Amount of FERV in E(a) above															
	e) Amount of Hedging Cost in E(a) above															
	f) Amount of IEDC in E(a) above															

Petitioner

Statement of Capital Works in Progress

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station, Stage-II
COD	01-01-2001
For Financial Year	2024-29

(Rs Lakh)

Sl. No.	Particulars	2024-25			2025-26			2026-27			2027-28			2028-29		
		Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	86,443.02	7,848.93	78,594.09	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.											
	b) Amount of IDC in A(a) above	3,937.19		3,937.19												
	c) Amount of FC in A(a) above	-		-												
	d) Amount of FERV in A(a) above	55.34		55.34												
	e) Amount of Hedging Cost in A(a) above	-		-												
	f) Amount of IEDC in A(a) above	493.11		493.11												
B	a) Addition in CWIP during the period	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in B(a) above															
	c) Amount of FC in B(a) above															
	d) Amount of FERV in B(a) above															
	e) Amount of Hedging Cost in B(a) above															
	f) Amount of IEDC in B(a) above															
C	a) Transferred to Gross Block Amount during	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in C(a) above															
	c) Amount of FC in C(a) above															
	d) Amount of FERV in C(a) above															
	e) Amount of Hedging Cost in C(a) above															
	f) Amount of IEDC in C(a) above															
D	a) Deletion in CWIP during the period	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in D(a) above															
	c) Amount of FC in D(a) above															
	d) Amount of FERV in D(a) above															
	e) Amount of Hedging Cost in D(a) above															
	f) Amount of IEDC in D(a) above															
E	a) Closing CWIP as per books	SHALL BE PROVIDED AT THE TIME OF TRUE-UP.														
	b) Amount of IDC in E(a) above															
	c) Amount of FC in E(a) above															
	d) Amount of FERV in E(a) above															
	e) Amount of Hedging Cost in E(a) above															
	f) Amount of IEDC in E(a) above															

Petitioner

Calculation of Interest on Normative Loan

Name of the Company :		NTPC Limited						
Name of the Power Station :		Feroze Gandhi Unchahar Thermal Power Station, Stage-II						
								(Amount in Rs Lakh)
S. No.	Particulars		Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2		3	4	5		6	8
1	Gross Normative loan – Opening	A	90,681.63	90,618.99	90,618.99	91,720.09	96,457.69	1,02,225.69
2	Cumulative repayment of Normative loan up to previous year	B	90,681.63	90,618.99	90,618.99	91,720.09	92,191.11	93,473.27
3	Net Normative loan – Opening	C=A-B	-	-	-	-	4,266.58	8,752.42
4	Add: Increase due to addition during the year / period	D	3.17	-	1,101.10	4,737.60	5,768.00	9,737.00
5	Less: Decrease due to de-capitalisation during the year / period	E	69.46	-	-	-	-	-
6	Less: Decrease due to reversal during the year / period	F		-	-	-	-	-
7	Add: Increase due to discharges during the year / period	G	3.64	-	-	-	-	-
8	Normative Loan Closing	H=C+D-E-F+G	-62.65	-	1,101.10	4,737.60	10,034.58	18,489.42
9	Repayment of Loan during the year	I	-62.65	-	1,101.10	471.02	1,282.16	2,642.72
10	Repayment adjustment on account of decapitalization	J	-	-	-	-	-	-
11	Net Repayment of loan during the year	K=I-J	-62.65	-	1,101.10	471.02	1,282.16	2,642.72
12	Net Normative loan - Closing	L=H-K	-	-	-	4,266.58	8,752.42	15,846.70
13	Average Normative loan	M=Average(C,L)	-	-	-	2,133.29	6,509.50	12,299.56
14	Weighted average rate of interest	N	7.180%	7.180%	7.180%	7.180%	7.180%	7.180%
15	Interest on Loan	O=MxN	0.00	0.00	0.00	153.17	467.38	883.11
15	Cumulative repayment of Normative loan at the end of the period	P=B+K	90,618.99	90,618.99	91,720.09	92,191.11	93,473.27	96,115.99

(Petitioner)

Calculation of Interest on Working Capital

Name of the Company :	NTPC Limited
Name of the Power Station :	Feroze Gandhi Unchahar Thermal Power Station, Stage-II

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5		6	8
1	Cost of Coal/Lignite	17,980.30	14010.98	14010.98	14010.98	14010.98	14010.98
2	Cost of Main Secondary Fuel Oil	231.22	212.65	212.65	212.65	213.23	212.65
3	Fuel Cost						
4	Liquid Fuel Stock						
5	O & M Expenses	1,492.11	1754.56	1817.66	1893.13	1973.40	2058.53
6	Maintenance Spares	3,581.06	4210.95	4362.39	4543.51	4736.16	4940.47
7	Receivables	20,529.69	17248.70	17063.44	17131.78	17435.34	17880.24
8	Total Working Capital	43814.38	37437.84	37467.13	37792.05	38369.12	39102.87
9	Rate of Interest	12.00%	11.90%	11.90%	11.90%	11.90%	11.90%
10	Interest on Working Capital	5257.73	4455.10	4458.59	4497.25	4565.92	4653.24

Petitioner

Summary of issue involved in the petition						PART 1 FORM-T
Name of the Company :		NTPC Limited				
Name of the Power Station :		Feroze Gandhi Unchahar Thermal Power Station, Stage-II				
1	Petitioner:	NTPC Limited				
2	Subject	Determination of Tariff for 2024-29 period				
3	Prayer:	i) Approve tariff of Feroze Gandhi Unchahar Thermal Power Station Stage-II (2X210 MW) for the tariff period 01.04.2024 to 31.03.2029. ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries. iii) Approve supplementary tariff for Feroze Gandhi Unchahar Thermal Power Station Stage-II (2X210 MW) on installation of Emission Control System for controlling SPM emissions. iv) Allow reimbursement of Ash Utilization Charges directly from the beneficiaries on monthly basis, subject to true up. v) Grant liberty to approach the Hon'ble Commission to allow for the recovery of pay/wage revision due in 2024-29 period as additional O&M over and above the normative O&M. vi) Pass any other order as it may deem fit in the circumstances mentioned above.				
4	Respondents					
Name of Respondents						
1. Uttar Pradesh Power Corp. Ltd. (UPPCL)						
2. Rajasthan Urja Vikas Nigam Limited (RUVNL)						
3. Tata Power Delhi Distribution Limited						
4. BSES Rajdhani Power Limited.						
5. BSES Yamuna Power Limited,						
6. Haryana Power Purchase Centre						
7. Punjab State Power Corporation Limited,						
8. Himachal Pradesh State Electricity Board Limited,						
9. Power Development Department (J&K)						
10. Electricity Department, Union Territory of Chandigarh						
11. Uttarakhand Power Corporation Limited.						
5	Project Scope					
Capital Cost as on 01.04.2024 (Rs. Lakh)		129455.70				
Date of Station COD		01-01-2001				
Claim (Rs Lakh)		2024-25	2025-26	2026-27	2027-28	2028-29
AFC		36,350.09	37,104.93	39,916.73	42,482.63	45,987.55
Closing Capital Cost		1,29,455.70	1,31,028.70	1,37,796.70	1,46,036.70	1,59,946.70
Initial spare		N/A				
NAPAF (Gen)		85%				
Any Specific						
Petitioner						

APPENDIX-IA



SUPPLEMENTARY TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF SUPPLEMENTARY TARIFF OF

Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation

(From 01.04.2024 to 31.03.2029)

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Supplementary Tariff	✓
FORM -1 (I)	Statement showing claimed capital cost	✓
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- 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
FORM- 8	Details of Allocation of corporate loans to various projects	NA
FORM-9A	Summary of Statement of Additional Capitalisation claimed during the period	✓
FORM-9	Statement of Additional Capitalisation after COD	✓
FORM- 10	Financing of Additional Capitalisation	NA
FORM- 11	Calculation of Depreciation on original project cost	✓
FORM- 12	Statement of Depreciation	✓
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	***
FORM- 15	Details of Fuel for Computation of Energy Charges	NA
FORM- 16	Details of Reagent for Computation of Energy Charge Rate	NA
FORM-17	Details of Capital Spares	***
FORM- 18	Non-Tariff Income	NA
FORM-19	Details of Water Charges	NA
FORM-20	Details of Statutory Charges	NA

PART-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	NA
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	NA
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM-D	Break-up of Construction/Supply/Service packages	NA
FORM-E	Details of variables , parameters , optional package etc. for New Project	NA
FORM-F	Details of cost over run	NA
FORM-G	Details of time over run	NA
FORM -H	Statement of Additional Capitalisation during end of the useful life	NA
FORM -I	Details of Assets De-capitalised during the period	***
FORM -J	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	***
FORM -K	Statement showing details of items/assets/works claimed under Exclusions	***
FORM-L	Statement of Capital cost	✓
FORM-M	Statement of Capital Woks in Progress	✓
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-Oi	Additional Form	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	NA
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	NA
FORM-R	Actual cash expenditure	NA
FORM-S	Statement of Liability flow	***
FORM-T	Summary of issues involved in the petition	✓
***	Shall be provided at the time of truing up	

Summary of Supplementary Tariff (DeNOx System)

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation

Amount in Rs. Lakhs

S. No.	Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	5	5	5	6
1.1	Depreciation	Rs Lakh	217.19	220.00	220.00	220.00	220.00	220.00
1.2	Interest on Loan	Rs Lakh	204.55	191.57	175.77	159.98	144.18	128.39
1.3	Return on Equity	Rs Lakh	209.31	228.43	228.43	228.43	228.43	228.43
1.4	Interest on Working Capital	Rs Lakh	15.02	15.35	15.42	15.51	15.58	15.73
1.5	O&M Expenses	Rs Lakh	112.64	118.55	124.78	131.33	138.22	145.48
	Total	Rs Lakh	758.71	773.90	764.40	755.24	746.42	738.03

(Petitioner)

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgrade

Amount in Rs. Lakhs

Statement showing claimed capital cost

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	3	4	5	5	5
1	Opening Capital Cost	5063.98	5172.07	5172.07	5172.07	5172.07	5172.07
2	Add: Addition during the year/period	2.46	-	-	-	-	-
3	Less: De-capitalisation during the year/period	0.00	-	-	-	-	-
4	Less: Reversal during the year / period	0.00	-	-	-	-	-
5	Add: Discharges during the year/ period	105.63	-	-	-	-	-
6	Closing Capital Cost	5,172.07	5,172.07	5,172.07	5,172.07	5,172.07	5,172.07
7	Average Capital Cost	5118.03	5172.07	5172.07	5172.07	5172.07	5172.07

Statement showing claimed capital cost eligible for RoE at normal rate (A)

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	3	4	5	5	5
1	Opening Capital Cost	-	-	-	-	-	-
2	Add: Addition during the year / period	-	-	-	-	-	-
3	Less: De-capitalisation during the year / period	-	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-	-
5	Add: Discharges during the year / period	-	-	-	-	-	-
6	Closing Capital Cost	0.00	0.00	0.00	0.00	0.00	0.00
7	Average Capital Cost	0.00	0.00	0.00	0.00	0.00	0.00

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgrade

Amount in Rs. Lakhs

Statement showing claimed capital cost

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
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Statement showing claimed capital cost eligible for RoE @ SBI MCLR + 325 bp

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	3	4	5	5	5
1	Opening Capital Cost	5,063.98	5,172.07	5,172.07	5,172.07	5,172.07	5,172.07
2	Add: Addition during the year / period	2.46	-	-	-	-	-
3	Less: De-capitalisation during the year / period						
4	Less: Reversal during the year / period						
5	Add: Discharges during the year / period	105.63	-	-	-	-	-
6	Closing Capital Cost	5172.07	5172.07	5172.07	5172.07	5172.07	5172.07
7	Average Capital Cost	5118.03	5172.07	5172.07	5172.07	5172.07	5172.07

(Petitioner)

Statement showing Return on Equity at Normal Rate

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation

Amount in Rs. Lakhs

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	3			4	5
	Return on Equity						
1	Gross Opening Equity (Normal)	1,519.19	1,551.62	1,551.62	1,551.62	1,551.62	1,551.62
2	Less: Adjustment in Opening Equity						
3	Adjustment during the year						
4	Net Opening Equity (Normal)	1,519.19	1,551.62	1,551.62	1,551.62	1,551.62	1,551.62
5	Add: Increase in equity due to addition during the year / period	0.74	-	-	-	-	-
7	Less: Decrease due to De-capitalisation during the year / period	-	-	-	-	-	-
8	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-
9	Add: Increase due to discharges during the year / period	31.69	-	-	-	-	-
10	Net closing Equity (Normal)	1,551.62	1,551.62	1,551.62	1,551.62	1,551.62	1,551.62
11	Average Equity (Normal)	1,535.41	1,551.62	1,551.62	1,551.62	1,551.62	1,551.62
12	Pre Tax ROE (%)	11.25%	12.15%	12.15%	12.15%	12.15%	12.15%
12a	Post Tax ROE (%)	13.632%	14.722%	14.722%	14.722%	14.722%	14.722%
13	Total ROE	209.31	228.43	228.43	228.43	228.43	228.43

(Petitioner)

Name of the Company	NTPC Ltd
Name of the Power Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II
ECS Characteristics(ESP Upgradation)	
Name of the Petitioner	NTPC Ltd
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II
Unit(s)/Block(s)/Parameters	Stage-II (2x210MW)
Installed Capacity (MW)-Coal Based	2X210 MW
Date of ODe	Unit-I: 01.02.2020 Unit-II: 12.06.2020
Type of System	ESP Upgradation
Name of the Manufacturer	M/s GE POWER INDIA LIMITED
Technological feature	ESP Upgradation was taken up at the instant station to meet revised environmental norms of Particulate Matter of 100 mg/Nm ³ at ESP outlet as per MOEFF&CC Notitication dated 07.12.2015. Upgradation of Existing ESP work consists of increaing collecting area, increasing volatge level from 70 kVDC (p)) to 95 kV DC (p), Modification/Repair of ducting as per CFD modelling, Installation of state of art Controllers etc
Design Unit Load	210 MW
Design Flue Gas Flow at ESP Inlet	450 m ³ /sec
Design Flue Gas Inlet Temperature	145 Deg Cent
Design Inlet Dust Concentration	55 g/Nm ³
Design Outlet Dust Concentration	50 mg/Nm ³
Design Efficeincy	99.91%
Design Electrical Power Consumption	59.5 kW

PETITIONER

Normative parameters considered for supplementary tariff computations

Name of the Petitioner		NTPC Ltd.					
Name of the Generating Station		Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation					
(Year Ending March)							
Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	6	6	6	6	6	6
Base Rate of Return on Equity	%	11.25%	12.15%	12.15%	12.15%	12.15%	12.15%
Effective Tax Rate	%	17.472%	17.472%	17.472%	17.472%	17.472%	17.472%
Weighted average rate of interest for IOL		8.135%	8.135%	8.135%	8.135%	8.135%	8.135%
Target Availability							
Peak Hours		85.00%	85.00%	85.00%	85.00%	85.00%	85.00%
Off-Peak Hours		85.00%	85.00%	85.00%	85.00%	85.00%	85.00%
Auxiliary Energy Consumption	%	9.00	9.00	9.00	9.00	9.00	9.00
Auxiliary Energy Consumption for emission control system (Design)	%	Nil	Nil	Nil	Nil	Nil	Nil
Rate of Interest on Working Capital	%	12.00%	11.90%	11.90%	11.90%	11.90%	11.90%
O&M Expenses	% of Cap Cost	2	2	2	2	2	2
Maintenance Spares for WC	% of O&M	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Receivables for WC	in Days	45	45	45	45	45	45
Units	Date from which tariff is claimed						
Unit-I	31-12-2021						

Petitioner

Calculation of O&M Expenses

Name of the Company : NTPC Ltd.
Name of the Power Station : Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation

Amount in Rs. Lakhs

S.No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	O&M expenses under Reg.36(1) (9)						
1a	Normative O&M expenses- ECS	112.64	118.55	124.78	131.33	138.22	145.48
	Total O&M Expenses	112.64	118.55	124.78	131.33	138.22	145.48

(Petitioner)

Statement Giving Details of Project Financed through a Combination of loan		
Name of the Company	NTPC Ltd	
Name of the Power Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II	
	TRANCHE NO	
BP NO 5050000261	T00001	D00012
Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,50,00,00,00,000	
Date of Drawl	22.07.2013	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.25%	
Upfront fees	0.08% excluding service tax	
Margin, If Floating Interest :	Nil	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	08.07.2011	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-II	67,00,00,000
	FARAKKA-III	35,00,00,000
	SIMHADRI-II	20,00,00,000
	RAMAGUNDAM SOLAR	10,00,00,000
	FGUTPS-I	8,40,09,477
	FGUTPS-II	5,59,90,523
	VSTPS R&M	28,00,00,000
	RAMAGUNDAM-R&M	18,00,00,000
	KORBA-R&M	17,00,00,000
	KAWAS-R&M	17,00,00,000
	BADARPUR-R&M	14,00,00,000
	TSTPP-R&M	10,00,00,000
Total Allocated Amount		2,50,00,00,000.00

Bank Loan	Interest Rate	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest	Remarks
State Bank of India - VII	8.2500%	01-Apr-19	14-05-2019	43.00	3.55	7.9342%	
	8.1500%	14-May-19	14-08-2019	92.00	7.50		
	7.9500%	14-Aug-19	14-11-2019	92.00	7.31		
	7.7000%	14-Nov-19	14-02-2020	92.00	7.08		
	7.6500%	14-Feb-20	31-Mar-20	47.00	3.60		
				366.00	29.04	7.9342%	
State Bank of India - VII	7.650%	01-Apr-20	13-May-20	43.00	3.29	6.8560%	
	7.000%	14-May-20	13-Aug-20	92.00	6.44		
	6.650%	14-Aug-20	31-Mar-21	230.00	15.30		
				365.00	25.02		
State Bank of India-VII	6.65%	01-04-2021	31-03-2022	365	24.27	6.65%	
State Bank of India - VII	6.65%	01-04-2022	13-05-2022	43.00	2.86		
State Bank of India - VII	6.75%	14-05-2022	13-08-2022	92.00	6.21		
State Bank of India - VII	7.15%	14-08-2022	13-11-2022	92.00	6.58		
State Bank of India - VII	7.60%	14-11-2022	13-02-2023	92.00	6.99		
State Bank of India - VII	8.00%	14-02-2023	31-03-2023	46.00	3.68		
				365.00	26.32	7.2108%	
State Bank of India - VII	8.00%	01-Apr-23	13-May-23	43.00	3.44		
State Bank of India - VII	8.10%	14-May-23	29-Jun-23	47.00	3.81		Loan Closed
				90.00	7.25	8.05%	

	FORM-8
Name of the Company	NTPC Ltd
Name of the Power Station	Unchahar Stage-II
Particulars	
Source of Loan - Bonds Series	55
Currency	INR
Amount of Loan sanctioned (In Lakh)	30,000.00
Amount of Gross Loan drawn upto COD (In Lakh)	30,000.00
Interest Type	Fixed
Fixed Interest Rate, if applicable	7.15%
Base Rate, if Floating Interest	N/A
Margin, if Floating Interest	N/A
Are there any Caps/Floor	No
If above is yes,specify caps/floor	N/A
Moratorium Period (In Years)	10
Moratorium effective from*	21-08-2015
Repayment Period	Bullet Repayment
Repayment effective from	21-08-2025
Repayment Frequency	Bullet Repayment
Repayment Instalment (In Lakh)	30,000.00
Base Exchange Rate	N/A
Door to Door Maturity (In Years)	10
Name of the Projects	55
UNCHA HAR II	1300.00

						PART-I
						FORM- 9A
						Additional Form
<u>Year wise Statement of Additional Capitalisation after COD</u>						
Name of the Petitioner			NTPC Ltd.			
Name of the Generating Station			Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP			
For Financial Year			2024-29 Summary			
						Amount in Rs Lakh
Sl. No.	Head of Work /Equipment	ACE Claimed (Actual)				
		2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Combustion Modification System Unit 1	-	-	-	-	-
Total Add Cap		-	-	-	-	-
2	Discharge of Liabilities	-	-	-	-	-
Total Add. Cap. Claimed including discharge of liabilities		-	-	-	-	-
						(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation
ODe	12-06-2020
For Financial Year	2024-25

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual)						Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3A	3B	3	4	5= (3-4)	6	7	8	9
1	NA	-	-	-	-	-	-	NA	NA	Nil
	Total			-	-	-	-			

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation
ODE	12-06-2020
For Financial Year	2025-26

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual)						Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3A	3B	3	4	5= (3-4)	6	7	8	9
1	NA	-	-	-	-	-	-	NA	NA	Nil
	Total			-	-	-	-			

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP
ODe	12-06-2020
For Financial Year	2026-27

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual)						Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3A	3B	3	4	5= (3-4)	6	7	8	9
1	NA	-	-	-	-	-	-	NA	NA	Nil
	Total			-	-	-	-			

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation
ODe	12-06-2020
For Financial Year	2027-28

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual)						Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3A	3B	3	4	5= (3-4)	6	7	8	9
1	NA	-	-	-	-	-	-	NA	NA	Nil
	Total			-	-	-	-			

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Ltd.
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation
ODe	12-06-2020
For Financial Year	2028-29

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual)						Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3A	3B	3	4	5= (3-4)	6	7	8	9
1	NA	-	-	-	-	-	-	NA	NA	Nil
	Total			-	-	-	-			

(Petitioner)

Calculation of Depreciation

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation

Amount in Rs Lakh

SI.No.	Name of the Assets ¹	Depreciation Rates as per CERC's Depreciation Rate Schedule	Gross Block as on 01.04.2024	Depreciation
1	Land-Free Hold	0.00%		0.00
2	Plant & Machinery	5.28%	5,219.88	275.61
3	Cooling Towers & CW System.	5.28%		0.00
4	Air conditioning	5.28%		0.00
5	Chimney	5.28%		0.00
6	Main Plant Building	3.34%		0.00
7	Ash Dyke/Disposal Area	5.28%		0.00
8	S-Yard	5.28%		0.00
9	Raw Water Reservoir	5.28%		0.00
10	MGR & Wagons	5.28%		0.00
11	Locomotive	9.50%		0.00
12	Residential Building	3.34%		0.00
13	Water Treatment Plant	5.28%		0.00
14	Spares	5.28%		0.00
15	Furniture & Fixtures, OFFICE EQUIPMENT	6.33%		0.00
16	Other MBOAs / T&Ps.	6.33%		0.00
17	EDP, WP & SATCOM.	15.00%		0.00
18	Construction equipment	5.28%		0.00
19	Temp. Constructions	100.00%		0.00
20	Central Repair/Workshop	5.28%		0.00
21	Road/Bridge	3.34%		0.00
22	Software	15.00%		0.00
23	Water Supply drainage	5.28%		0.00
24	5 Km Scheme	5.28%		0.00
25	Hospital Equipment	5.28%		0.00
26	Vehicle	9.50%		0.00
	Total		5,219.88	275.61
	Weighted Average Rate of Depreciation (%)			5.28%

Petitioner

Statement of Depreciation

Name of the Company : NTPC Ltd.
Name of the Power Station : Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	6	6	6	6	6	6
	No of Days in the period	366	366	366	366	366	366
	No of Days in the year	366	366	366	366	366	366
1	Opening Capital Cost	5,063.98	5,172.07	5,172.07	5,172.07	5,172.07	5,172.07
2	Closing Capital Cost	5,172.07	5,172.07	5,172.07	5,172.07	5,172.07	5,172.07
3	Average Capital Cost	5,118.03	5,172.07	5,172.07	5,172.07	5,172.07	5,172.07
1a	Cost of IT Equipments & Software included in (1) above*	-	-	-	-	-	-
2a	Cost of IT Equipments & Software included in (2) above*	-	-	-	-	-	-
3a	Average Cost of IT Equipments & Software*	-	-	-	-	-	-
4	Freehold land	-	-	-	-	-	-
5	Rate of depreciation (%)	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%
6	Depreciable value	4,606.22	4,654.86	4,654.86	4,654.86	4,654.86	4,654.86
7.	Balance useful life at the beginning of the period	18.33	17.33	16.33	15.33	14.33	13.33
8	Remaining depreciable value	3,981.07	3,812.52	3,592.53	3,372.53	3,152.53	2,932.54
9	Depreciation (for the period)	217.19	220.00	220.00	220.00	220.00	220.00
10	Depreciation (annualised)	217.19	220.00	220.00	220.00	220.00	220.00
11	Cumulative depreciation at the end of the period	842.34	1,062.34	1,282.33	1,502.33	1,722.33	1,942.32
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	-	-	-	-	-	-
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-	-
12	Net Cumulative depreciation at the end of the period after adjustments	842.34	1,062.34	1,282.33	1,502.33	1,722.33	1,942.32

(Petitioner)

Calculation of Weighted Average Rate of Interest on Loan.

Name of Company:	NTPC LTD.				
Name of the Power Station:	Unchahar Stage-II				
	2019-20	2020-21	2021-22	2022-23	2023-24
SBI VII D-12					
Net Loan Opening	279.95	209.96	139.98	69.99	0.00
Additions					
Repayment	69.99	69.99	69.99	69.99	0.00
Net Loan Closing	209.96	139.98	69.99	0.00	0.00
Avg Loan	244.96	174.97	104.98	34.99	0.00
Rate of Interest	7.9417%	6.8635%	6.6575%	7.2183%	8.0597%
Interest	19.45	12.01	6.99	2.53	0.00
BOND-55					
Net Loan Opening	0.00	1300.00	1300.00	1300.00	1300.00
Additions	1300.00				
Repayment	0.00	0.00	0.00	0.00	0.00
Net Loan Closing	1300.00	1300.00	1300.00	1300.00	1300.00
Avg Loan	650.00	1300.00	1300.00	1300.00	1300.00
Rate of Interest	7.1800%	7.1800%	7.1800%	7.1800%	7.1800%
Interest	46.67	93.34	93.34	93.34	93.34
Total Loan					
Net Loan Opening	279.95	1509.96	1439.98	1369.99	1300.00
Additions	1300.00	0.00	0.00	0.00	0.00
Repayment	69.99	69.99	69.99	69.99	0.00
Net Loan Closing	1509.96	1439.98	1369.99	1300.00	1300.00
Avg Loan	894.96	1474.97	1404.98	1334.99	1300.00
Rate of Interest	7.3885%	7.1425%	7.1410%	7.1810%	7.1800%
Interest	66.12	105.35	100.33	95.87	93.34
SBI VII Rate of interest includes upfront fees of 0.0075% (i.e. 0.08%*1.1236%/12years).					

Statement of Capital cost

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation
ODe	12-06-2020
For Financial Year	2024-29

Sl. No.	Particulars	(Rs Lakh)														
		2024-25			2025-26			2026-27			2027-28			2028-29		
		Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	5,219.88	4.04	5,215.84	SHALL BE PROVIDED AT TRUE-UP											
	b) Amount of IDC in A(a) above	59.39	-	59.39												
	c) Amount of FC in A(a) above	-	-	-												
	d) Amount of FERV in A(a) above	99.46	-	99.46												
	e) Amount of Hedging Cost in A(a) above	-	-	-												
	f) Amount of IEDC in A(a) above	-	-	-												
B	a) Addition in Gross Block Amount during the period (Direct purchases)	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in B(a) above															
	c) Amount of FC in B(a) above															
	d) Amount of FERV in B(a) above															
	e) Amount of Hedging Cost in B(a) above															
	f) Amount of IEDC in B(a) above															
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in C(a) above															
	c) Amount of FC in C(a) above															
	d) Amount of FERV in C(a) above															
	e) Amount of Hedging Cost in C(a) above															
	f) Amount of IEDC in C(a) above															
D	a) Deletion in Gross Block Amount during the period	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in D(a) above															
	c) Amount of FC in D(a) above															
	d) Amount of FERV in D(a) above															
	e) Amount of Hedging Cost in D(a) above															
	f) Amount of IEDC in D(a) above															
E	a) Closing Gross Block Amount as per books	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in E(a) above															
	c) Amount of FC in E(a) above															
	d) Amount of FERV in E(a) above															
	e) Amount of Hedging Cost in E(a) above															
	f) Amount of IEDC in E(a) above															

(Petitioner)

Statement of Capital Works in Progress

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation
Ode	12-06-2020
For Financial Year	2024-29

(Rs Lakh)

Sl. No.	Particulars	2024-25			2025-26			2026-27			2027-28			2028-29		
		Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	-	-	-	SHALL BE PROVIDED AT TRUE-UP											
	b) Amount of IDC in A(a) above	-	-	-												
	c) Amount of FC in A(a) above	-	-	-												
	d) Amount of FERV in A(a) above	-	-	-												
	e) Amount of Hedging Cost in A(a) above	-	-	-												
	f) Amount of IEDC in A(a) above	-	-	-												
B	a) Addition in CWIP during the period	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in B(a) above															
	c) Amount of FC in B(a) above															
	d) Amount of FERV in B(a) above															
	e) Amount of Hedging Cost in B(a) above															
	f) Amount of IEDC in B(a) above															
C	a) Transferred to Gross Block Amount during the period	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in C(a) above															
	c) Amount of FC in C(a) above															
	d) Amount of FERV in C(a) above															
	e) Amount of Hedging Cost in C(a) above															
	f) Amount of IEDC in C(a) above															
D	a) Deletion in CWIP during the period	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in D(a) above															
	c) Amount of FC in D(a) above															
	d) Amount of FERV in D(a) above															
	e) Amount of Hedging Cost in D(a) above															
	f) Amount of IEDC in D(a) above															
E	a) Closing CWIP as per books	SHALL BE PROVIDED AT TRUE-UP														
	b) Amount of IDC in E(a) above															
	c) Amount of FC in E(a) above															
	d) Amount of FERV in E(a) above															
	e) Amount of Hedging Cost in E(a) above															
	f) Amount of IEDC in E(a) above															

(Petitioner)

							PART-I
							FORM-N
Calculation of Interest on Normative Loan							
Name of the Company :				NTPC Ltd.			
Name of the Power Station :				Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation			
(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3		6	6	5	6
1	Gross Normative loan – Opening	3,544.79	3,620.45	3,620.45	3,620.45	3,620.45	3,620.45
2	Cumulative repayment of Normative loan up to previous year	625.16	842.34	1,062.34	1,282.33	1,502.33	1,722.33
3	Net Normative loan – Opening	2,919.63	2,778.11	2,558.11	2,338.12	2,118.12	1,898.12
4	Add: Increase due to addition during the year / period	1.72	-	-	-	-	-
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	73.94	-	-	-	-	-
8	Less: Repayment of Loan	217.19	220.00	220.00	220.00	220.00	220.00
9	Net Normative loan - Closing	2,778.11	2,558.11	2,338.12	2,118.12	1,898.12	1,678.13
10	Average Normative loan	2,848.87	2,668.11	2,448.11	2,228.12	2,008.12	1,788.13
11	Weighted average rate of interest	7.1800%	7.1800%	7.1800%	7.1800%	7.1800%	7.1800%
12	Interest on Loan	204.55	191.57	175.77	159.98	144.18	128.39
(Petitioner)							

Calculation of Interest on Working Capital

Name of the Company : NTPC Ltd.

Name of the Power Station : Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation

(Amount in Rs Lakh)

S. No.	Particulars		Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2		4	4	5	6	6	6
	No of days		366	365	365	365	366	365
1	Cost of Limestone/Reagent toward stock	20 days	-	-	-	-	-	-
2	Cost of Limestone/Reagent toward generation	30 days	-	-	-	-	-	-
3	Receivables	45 days	93.28	95.41	94.24	93.11	91.77	90.99
4	O & M Expenses	1 month	9.39	9.88	10.40	10.94	11.52	12.12
5	Maintenance Spares	@20%	22.53	23.71	24.96	26.27	27.64	29.10
6	Total Working Capital	Rs. Lakh	125.20	129.00	129.59	130.32	130.94	132.21
7	Rate of Interest	%	12.00%	11.90%	11.90%	11.90%	11.90%	11.90%
8	Interest on Working Capital	Rs. Lakh	15.02	15.35	15.42	15.51	15.58	15.73

Petitioner

Name of the Company	NTPC Ltd.
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Name of the Power Station	Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation
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(Amount in Rs Lakh)

SN	Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	Auxiliary consumption	%	9.80	9.80	9.80	9.80	9.80	9.80
2	Additional Auxiliary Power Consumption (ECS)	%	0.00	0.00	0.00	0.00	0.00	0.00
3	Specific Reagent Consumption (kg/kwh)	kg/kwh						
4	Landed Cost of Reagent (Rs/MT)	Rs/MT	-	-	-	-	-	-
5	Supplementary Energy Charge (Rs/kwh)	Rs/kwh	-	-	-	-	-	-
6	Installed Capacity	MW	420	420	420	420	420	420
7	No of Days in the year	Days	365	365	365	365	365	366
8	ESO in 1 Day	MU	7.73	7.73	7.73	7.73	7.73	7.73
9	Cost of Reagent consumed in a day	Rs Lakh	-	-	-	-	-	-

PETITIONER

Summary of issue involved in the petition

Name of the Company :		NTPC Ltd.				
Name of the Power Station :		Feroze Gandhi Unchahar Thermal Power Station Stage-II ECS-ESP Upgradation				
1	Petitioner:	NTPC Ltd.				
2	Subject	Determination of Supplementary Tariff (for ECS ESP				
3	Prayer:	<p>i) Approve Supplementary Tariff of Unchahar Stage-II ECS ECS ESP Upgradation for the tariff period from 01.04.2024 to 31.03.2029.</p> <p>iii) Pass any other order as it may deem fit in the circumstances mentioned above.</p>				
4	Respondents					
	Name of Respondents					
		1. Uttar Pradesh Power Corp. Ltd. (UPPCL)				
		2. Rajasthan Urja Vikas Nigam Limited (RUVNL)				
		3. Tata Power Delhi Distribution 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 Electricity Board Limited,				
		9. Power Development Department				
		10. Electricity Department of Chandigarh				
		11. Uttarakhand Power Corporation Limited,				
5	Project Scope					
	Cost	5172.07				
	Commissioning					
	Claim	5172.07				
		2024-25	2025-26	2026-27	2027-28	2028-29
	AFC (2023-24)	773.90	764.40	755.24	746.42	738.03
	Capital cost	5172.07	5172.07	5172.07	5172.07	5172.07
	Initial spare	-				
	NAPAF (Gen)	85%				
	Any Specific	-				
(Petitioner)						



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


07/10/21
(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 mal-operations 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.
- 1.2 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,
- l) 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 mean 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

Abbreviations	Description
a) BES	Bulk Electric System

b)	CDAC	Centre for Development of Advanced Computing
c)	CEA	Central Electricity Authority
d)	CERC	Central Electricity Regulatory Commission
e)	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 Standardization
r)	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	National Load Dispatch Centre
x)	NPTI	National Power Training Institute
y)	NSCS	National Security Council Secretariat
z)	OEM	Original 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.
- l. 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 Edition 1.0 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^{§, #} 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.

%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 8th 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.



सरकारी गजट, उत्तर प्रदेश

उत्तर प्रदेशीय सरकार द्वारा प्रकाशित

असाधारण

विधायी परिशिष्ट

भाग-1, खण्ड (क)

(उत्तर प्रदेश अधिनियम)

लखनऊ, सोमवार, 26 फरवरी, 2024

फाल्गुन 7, 1945 शक संवत्

उत्तर प्रदेश शासन

विधायी अनुभाग-1

संख्या 64/79-वि-1-2024-1-क-5-2024

लखनऊ, 26 फरवरी, 2024

अधिसूचना

विविध

“भारत का संविधान” के अनुच्छेद 200 के अधीन राज्यपाल ने उत्तर प्रदेश लिफ्ट और एस्केलेटर विधेयक, 2024 जिससे ऊर्जा अनुभाग-3 प्रशासनिक रूप से सम्बन्धित है, पर दिनांक 26 फरवरी, 2024 को अनुमति प्रदान की और वह उत्तर प्रदेश अधिनियम संख्या 4 सन् 2024 के रूप में सर्वसाधारण की सूचनार्थ इस अधिसूचना द्वारा प्रकाशित किया जाता है।

उत्तर प्रदेश लिफ्ट और एस्केलेटर अधिनियम, 2024

(उत्तर प्रदेश अधिनियम संख्या 4 सन् 2024)

[जैसा उत्तर प्रदेश विधान मण्डल द्वारा पारित हुआ]

उत्तर प्रदेश राज्य में लिफ्ट तथा एस्केलेटर और उनसे संबंधित समस्त मशीनरी तथा साधित्रों के निर्माण, संस्थापन, अनुरक्षण और सुरक्षित चालन के रजिस्ट्रीकरण तथा विनियमन और उससे संबंधित एवं आनुषंगिक मामलों का उपबंध करने के लिए

अधिनियम

भारत गणराज्य के पचहत्तरवें वर्ष में एतद्वारा निम्नलिखित अधिनियम बनाया जाता है :-

1-(1) यह अधिनियम उत्तर प्रदेश लिफ्ट और एस्केलेटर अधिनियम, 2024 कहा संक्षिप्त नाम जायेगा। और विस्तार

(2) इसका विस्तार सम्पूर्ण उत्तर प्रदेश राज्य के लिये होगा।

परिभाषाएं

2—जब तक कि संदर्भ से अन्यथा अपेक्षित न हो, इस अधिनियम में,—

(क) "एएमसी" का तात्पर्य वार्षिक अनुरक्षण संविदा से है;

(ख) "स्वचालित बचाव युक्ति" या "ए0आर0डी0" का तात्पर्य लिफ्ट कार को लैंडिंग हेतु गतिमान करने तथा लैंडिंग एवं लिफ्ट केज द्वार को एक साथ खोलने के लिये विद्युत आपूर्ति भंग या विफल होने के मामले में स्वचालित रूप से चलने वाली युक्ति से है;

(ग) "बलस्टर" का तात्पर्य ऊपर से पतला और नीचे से उभार युक्त किसी छोटे स्तम्भ से है;

(घ) "बेलस्ट्रेड" का तात्पर्य एस्केलेटर या मूविंग वॉक के किसी भाग से है जो स्थिरता प्रदान करके, गतिमान भाग से संरक्षा तथा हैंडरेल को सहारा देकर उपयोक्ताओं की सुरक्षा सुनिश्चित करता है। इसका तात्पर्य गिरने के खतरे को रोकने के लिए एलीवेटर के शीर्ष पर लगाये गये बैरिकेड से भी है;

(ङ) "कॉम्प्लेट" का तात्पर्य किसी नुकीली दांतो वाली प्लेट से है जो एस्केलेटर लैंडिंग का भाग बनती है और यात्रा की सीमा पर सीढ़ियों के क्लिफ्ट से जुड़ी होती है;

(च) "निदेशक, विद्युत सुरक्षा" का तात्पर्य उत्तर प्रदेश सरकार के विद्युत सुरक्षा निदेशक से है, और इसमें अपर निदेशक, विद्युत सुरक्षा तथा संयुक्त निदेशक, विद्युत सुरक्षा सम्मिलित होंगे;

(छ) "जिला मजिस्ट्रेट" का तात्पर्य अधिकारिता रखने वाले जिला मजिस्ट्रेट से है;

(ज) "डिवीजनल कमिश्नर" का तात्पर्य अधिकारिता रखने वाले राजस्व डिवीजनल कमिश्नर से है;

(झ) "एस्केलेटर" का तात्पर्य यात्रियों को ऊपर उठाने या उतारने के लिए उपयोग की जाने वाली निरंतर चलती झुकाव वाली सीढ़ी या स्नवे, जो बिजली द्वारा संचालित होती है, से है;

(ञ) "एस्केलेटर संस्थापन" का तात्पर्य किसी संस्थापन से है जिसमें एस्केलेटर, प्रचालन तंत्र, ट्रैक, ड्रस या गर्डर, बेलस्ट्रेडिंग, स्टेपट्रेड एवं लैंडिंग और एस्केलेटर के प्रचालन से सीधे जुड़े सभी चैन, तार और संयंत्र सम्मिलित हैं;

(ट) "सरकार" का तात्पर्य उत्तर प्रदेश राज्य की सरकार से है;

(ठ) "लिफ्ट" का तात्पर्य, कारखाना अधिनियम, 1948 (अधिनियम संख्या 63 सन् 1948) के अधीन आच्छादित उत्तोलकों या लिफ्ट को छोड़कर, उत्तोलन तथा नीचे लाने वाले केज से सुसज्जित तंत्र से है जो ऊर्ध्वगामी या अधोगामी दिशा में गतिमान हो और जो विद्युत द्वारा कार्यचालित है और जो माल या यात्री या दोनों के वहन हेतु परिकल्पित हो या वास्तव में प्रयुक्त हो;

(ड) "लिफ्ट केज" का तात्पर्य यात्रियों या माल या दोनों के परिवहन के लिए उपयोग की जाने वाली लिफ्ट की कार या केज से है;

(ढ) "लिफ्ट संस्थापन" में लिफ्ट केज, लिफ्ट वे, लिफ्ट वे एनक्लोजर, और लिफ्ट का प्रचालन तंत्र और लिफ्ट के प्रचालन से जुड़ी समस्त रस्सियां, केबल, तार, सुरक्षा उपबंध और संयंत्र तथा मशीनरी सम्मिलित हैं;

(ण) "लिफ्ट वे" का तात्पर्य शॉफ्ट या उत्तोलक मार्ग से है जिसमें लिफ्ट केज यात्रा करता है;

(त) "लिफ्ट वे एनक्लोजर" में लिफ्ट वे के आस पास या उसे घेरने वाली कोई भी महत्वपूर्ण संरचना सम्मिलित है;

(थ) "निरीक्षक" का तात्पर्य उत्तर प्रदेश सरकार द्वारा नाम निर्दिष्ट विद्युत निरीक्षक से है;

(द) "स्वामी" का तात्पर्य कोई व्यक्ति या व्यक्तियों का निकाय या निगमित निकाय जो लिफ्ट, एस्केलेटर या मूविंग वॉक का स्वामी हो या उसका प्रचालन या अनुरक्षण करता हो, जिसमें इस निमित्त उसका प्राधिकृत अभिकर्ता सम्मिलित होगा, से है;

(ध) "यात्री" का तात्पर्य किसी ऐसे व्यक्ति से है जो परिवहन के उद्देश्य से लिफ्ट या एस्केलेटर का उपयोग करता है;

स्पष्टीकरण :- इस खंड के प्रयोजन के लिए लिफ्ट ऑपरेटर को भी एक यात्री समझा जाएगा;

(न) "ऊर्जा" का तात्पर्य शक्ति के किसी भी रूप से है जो मानव या पशु अभिकरण द्वारा उत्पन्न नहीं किया जाता है;

(प) "परिसर" का तात्पर्य किसी संरचना, चाहे अस्थायी या स्थायी, जहां लिफ्ट या एस्केलेटर स्थापित हो, से है;

(फ) "विहित" का तात्पर्य इस अधिनियम के अधीन बनायी गयी नियमावली द्वारा विहित से है;

(ब) "निजी परिसर" का तात्पर्य किसी का स्वयं का आवासीय घर, जिसमें एक तहखाना (बेसमेंट फ्लोर), भूतल और भूतल से ऊपर दो तल हों, जिसका उपयोग उसके स्वयं या उसके परिवार के सदस्यों द्वारा किया जाता है, से है;

(भ) "सार्वजनिक परिसर" का तात्पर्य वे समस्त परिसर जो "निजी परिसर" नहीं हैं, से है;

(म) "रेटेड स्पीड" का तात्पर्य उस गति से है जिस पर लिफ्ट या एस्केलेटर को प्रचालित करने के लिए परिकल्पित किया गया है;

(य) "नियम" का तात्पर्य इस अधिनियम के अधीन बनाए गए नियम से है;

(र) "उत्तर प्रदेश सरकार में ऊर्जा विभाग में सचिव" का तात्पर्य उत्तर प्रदेश शासन में ऊर्जा विभाग में अपर मुख्य सचिव या प्रमुख सचिव या सचिव में से ज्येष्ठतम से है;

(ल) "धारा" का तात्पर्य इस अधिनियम की किसी धारा से है;

(व) "राज्य" का तात्पर्य उत्तर प्रदेश राज्य से है।

3-(1) इस अधिनियम के प्रारंभ होने के पश्चात् किसी भी परिसर में लिफ्ट या एस्केलेटर के संस्थापन हेतु आशयित स्थान के प्रत्येक स्वामी को राज्य सरकार, द्वारा इस निमित्त प्राधिकृत ऐसे अधिकारियों को पूर्ण विवरण या जानकारी देते हुए ऐसे प्रपत्र में एक आवेदन करना होगा जैसा कि विहित किया जाय।

लिफ्ट या एस्केलेटर परिनिर्मित करने के लिए स्वामी द्वारा रजिस्ट्रीकरण

(2) उपधारा (1) के अधीन आवेदन प्राप्त होने पर, इस धारा के अधीन प्राधिकृत अधिकारी इसे रजिस्टर करेगा और आवेदक के साथ साझा की जाने वाली एक रजिस्ट्रीकरण संख्याजनित की जाएगी।

(3) "निजी परिसर" और "सार्वजनिक परिसर" के लिए आवेदन अलग-अलग रजिस्ट्रीकृत किए जाएंगे।

(4) रजिस्ट्रीकरण के पश्चात् स्वामी को अपनी लिफ्ट या एस्केलेटर धारा 11 के अधीन प्राधिकृत व्यक्ति से परिनिर्मित कराना होगा।

4-स्वामी जो धारा 3 के अधीन लिफ्ट या एस्केलेटर संस्थापन हेतु रजिस्ट्रीकृत हो, कमीशनिंग पूर्ण होने पर, लिफ्ट या एस्केलेटर के प्रयोग से पूर्व, इस प्रयोजन हेतु विहित प्रपत्र पर, शुल्क जैसा कि विहित किया जाय के साथ, ऐसे अधिकारियों को जैसा कि राज्य सरकार द्वारा इस निमित्त प्राधिकृत किया जाय, को सूचित करेगा :

कमीशनिंग पूर्ण होने पर और लिफ्ट या एस्केलेटर के उपयोग से पूर्व सूचना दिया जाना

परन्तु यह कि सरकारी परिसर में कमीशन किये गये लिफ्ट या एस्केलेटर हेतु कोई शुल्क प्रभारित नहीं होगा।

5-स्वामी जो, धारा 3 के अधीन रजिस्ट्रीकृत हो, और लिफ्ट या एस्केलेटर का कमीशनिंग पूर्ण कर लिया है और धारा 4 के अधीन इसकी सूचना दी है, वह निम्नलिखित सुनिश्चित करेगा:

लिफ्ट या एस्केलेटर का अनुरक्षण

(क) वह यह सुनिश्चित करेगा कि उसके परिसर में लिफ्ट या एस्केलेटर का नियमित आवधिक अंतराल पर अनुरक्षण किया जाता है। उसे अनिवार्य रूप से ओ0ई0एम0 (मूल उपस्कर विनिर्माता) से या धारा 11 के अधीन रजिस्ट्रीकृत उसके प्राधिकृत सेवा प्रदाता से व्यापक ए0एम0सी0 लेनी होगी।

(ख) वह प्रत्येक वर्ष अपने लिफ्ट या एस्केलेटर या उनके अनुरक्षण के लिए की गई किसी अन्य व्यवस्था के लिए ए0एम0सी0 की एक प्रति ऐसे अधिकारियों को प्रस्तुत करेगा जैसा कि राज्य सरकार द्वारा एक विहित प्रारूप पर इस निमित्त प्राधिकृत किया जाय:

परन्तु यह कि निजी परिसर में, कमीशन किये गये लिफ्ट या एस्केलेटर हेतु स्वामी द्वारा प्रत्येक वर्ष ए0एम0सी0 की प्रति प्रस्तुत करना अपेक्षित नहीं होगा;

(ग) वह यह सुनिश्चित करेगा कि लिफ्ट या एस्केलेटर का अनुरक्षण सक्षम व्यक्ति या धारा 11 के अधीन प्राधिकृत अभिकरण द्वारा कम से कम मासिक आधार पर किया जाए;

(घ) जब भी तकनीकी टीम अनुरक्षण या किसी खराबी को दूर करने के लिए आती है तो स्वामी को ए0एम0सी0 तकनीकी टीम से ठीक हालत में होने का प्रमाण पत्र लेना होगा और इस आशय की प्रविष्टि ए0एम0सी0 तकनीकी टीम द्वारा आवधिक अनुरक्षण हेतु लॉग बुक में की जायेगी;

(ङ) वह यह भी सुनिश्चित करेगा कि दिन-प्रतिदिन के प्रचालन के दौरान आने वाली किसी भी तकनीकी खराबी को तुरंत दूर किया जाए। जब तक ऐसी तकनीकी खराबी दूर नहीं हो जाती, तब तक स्वामी द्वारा लिफ्ट या एस्केलेटर पर "उपयोग में नहीं है" का दृश्यमान डिस्प्ले लगाना अनिवार्य होगा;

(च) सार्वजनिक परिसर में स्थापित लिफ्ट या एस्केलेटर के पास आवधिक अनुरक्षण की एक लॉग बुक रखी तथा प्रदर्शित की जाएगी और राज्य सरकार द्वारा इस निमित्त प्राधिकृत किसी भी अधिकारी द्वारा मांगे जाने पर इसे प्रस्तुत किया जाएगा;

(छ) आपातकालीन स्थिति में लिफ्ट के भीतर फंसे यात्रियों को सुरक्षित बाहर निकालने के लिये, स्वामी या उसके प्राधिकृत व्यक्ति द्वारा वर्ष में कम से कम दो बार मॉक ड्रिल अभ्यास किया जायेगा।

यात्री की सुरक्षा

6-स्वामी को बिजली आपूर्ति में किसी भी खराबी की स्थिति में अंदर फंसे यात्रियों को बचाने के लिए लिफ्ट या एस्केलेटर में एक स्वचालित बचाव युक्ति की स्थापना का उपबंध किया जाना सुनिश्चित करना होगा। युक्ति ऐसी होनी चाहिए कि लिफ्ट या एस्केलेटर निकटतम लैंडिंग तल पर पहुंचे और लैंडिंग और केज के दरवाजे खुल जायें। लिफ्ट में पर्याप्त प्रकाश होगा और यात्रियों द्वारा उपयोग हेतु द्विमार्गी-संचार प्रणाली होगी तथा लिफ्ट के भीतर आपातकालीन घंटी होगी जिसका उपयोग किसी भी आपात स्थिति में किया जायेगा। लिफ्ट में आपातकालीन उपबंधों का प्रयोग करने के तरीके के विषय में यात्रियों के लिए अनुदेशों का प्रदर्शन किया जायेगा :

परन्तु यह कि सार्वजनिक परिसरों में स्थापित समस्त लिफ्टों में सी0सी0टी0वी0 कैमरा लगाया जायेगा।

बीमा

7-सार्वजनिक परिसर के मामले में, स्वामी को लिफ्ट या एस्केलेटर के प्रचालन के दौरान किसी भी दुर्घटना या अनिष्ट से पर्याप्त रूप से निपटने के लिए अनिवार्य रूप से बीमा लेना होगा ताकि ऐसे लिफ्ट या एस्केलेटर का उपयोग करने वाले यात्रियों के जोखिम को कवर किया जा सके और मृतक या घायल को संदेय धनराशि सरकार द्वारा विहित मानक के अनुरूप अवश्य होनी चाहिए :

परन्तु यह कि सरकारी परिसर में लिफ्ट या एस्केलेटर के लिए कोई बीमा अपेक्षित नहीं होगा।

भवन,
वैद्युत-यांत्रिक
संस्थापना और
लिफ्ट या
एस्केलेटर के लिए
विभिन्न संहिताओं
का अनुपालन

8-इस अधिनियम में अन्यथा प्रदान किए गए को छोड़कर, भवन के संबंध में प्रासंगिक अभ्यास संहिता जिसमें लिफ्ट या एस्केलेटर संस्थापित किया जाना है, लिफ्ट और एस्केलेटर स्वयं, कोई भी अन्य वैद्युत या यांत्रिक उपकरण और संस्थापना और प्रासंगिकता के किसी भी अन्य संहिता का पालन किया जाएगा। सार्वजनिक परिसरों में लिफ्ट और एस्केलेटर दिव्यांगों के अनुकूल होंगे।

रजिस्ट्रीकरण की
कालावधि

9-(1) प्रत्येक रजिस्ट्रीकरण की अवधि लिफ्ट या एस्केलेटर के सम्पूर्ण जीवनकाल के लिए जैसा विनिर्माता द्वारा अभिनिश्चित किया जाये, विधि मान्य होगी।

(2) यदि विद्यमान लिफ्ट या एस्केलेटर में कोई परिवर्तन या परिवर्धन किया जाता है, तो नया रजिस्ट्रीकरण अनिवार्य होगा।

(3) यदि संस्थापित किसी लिफ्ट या एस्केलेटर को किसी अन्य परिसर में अंतरित किया जाता है, तो नया रजिस्ट्रीकरण अनिवार्य होगा।

(4) इस धारा की उपधारा (2) और (3) के अधीन संस्थापनाओं के लिए रजिस्ट्रीकरण की अवधि विनिर्माता द्वारा परिवर्तन या परिवर्धन या स्थानांतरण के पश्चात् यथा अभिनिश्चित लिफ्ट या एस्केलेटर के नए जीवन काल के लिए विधि मान्य होगी।

(5) परिसर में संस्थापित लिफ्ट या एस्केलेटर को विनिर्माता द्वारा विनिर्दिष्ट लिफ्ट या एस्केलेटर की समय अवधि समाप्त होने पर लिफ्ट या एस्केलेटर के स्वामी द्वारा अनइंस्टॉल कर दिया जाएगा।

10-(1) धारा 3 और 4 में किसी बात के अंतर्विष्ट होते हुए भी, उस स्थान का प्रत्येक स्वामी जहां इस अधिनियम के प्रारंभ होने से पहले लिफ्ट या एस्केलेटर संस्थापित किया गया है, इस अधिनियम के प्रारंभ होने की दिनांक से छह महीने के भीतर आवेदन करेगा। राज्य सरकार प्राधिकृत अधिकारियों को विहित शुल्क के साथ एक विहित प्रारूप पर ऐसे लिफ्टों या एस्केलेटर के प्रचालन के लिए रजिस्ट्रीकरण के लिए प्राधिकृत कर सकती है।

(2) इस अधिनियम के अन्य उपबंध इन लिफ्ट और एस्केलेटर पर लागू होंगे। यदि इस अधिनियम के उपबंधों को पूरा करने के लिए लिफ्ट या एस्केलेटर में किसी संशोधन या परिवर्तन की आवश्यकता है, तो इसे इस अधिनियम के प्रारंभ होने के तीस मास के भीतर पूरा किया जाएगा। तब तक, धारा 10 के अधीन आच्छादित ऐसे लिफ्ट और एस्केलेटर के लिए कोई दंडात्मक कार्रवाई नहीं की जाएगी।

11-(1) ए0एम0सी0 के लिए अंतर्ग्रस्त अभिकरण और समस्त विनिर्माताओं, कमीशनिंग और संस्थापन अभिकरणों को राज्य सरकार द्वारा इस निमित्त प्राधिकृत अधिकारियों के साथ रजिस्ट्रीकृत करवाना होगा।

(2) उन्हें एक विहित प्रारूप पर और विहित शुल्क के साथ आवेदन करना होगा।

(3) उनके लिए वांछित योग्यताएं सरकार द्वारा विहित की जाएंगी।

(4) अधिनियम के उपबंधों या उसके अधीन बनायी गयी नियमावली के संबंध में किसी शिकायत या सूचना के मामले में, सरकार द्वारा इस निमित्त प्राधिकृत अधिकारी, विनिर्माता या प्रवर्तन और संस्थापन अभिकर्ता या ए0एम0सी0 के लिये अंतर्ग्रस्त अभिकर्ता को कारण बताओ सूचना दे सकते हैं। सुनवाई का सम्यक् अवसर देने के पश्चात् यदि अधिकारी अधिनियम के उपबंधों या उसके अधीन बनायी गयी नियमावली का अनुपालन पाता है तो वह उसका रजिस्ट्रीकरण रद्द कर देगा।

12-(1) लिफ्ट या एस्केलेटर के संचालन के दौरान किसी दुर्घटना के परिणामस्वरूप मानव या पशु जीवन की हानि या चोट लगने की स्थिति में, स्वामी या स्वामी द्वारा सम्यक् रूप से प्राधिकृत व्यक्ति द्वारा जिला मजिस्ट्रेट या स्थानीय पुलिस स्टेशन के प्रभारी की अधिकारिता या किसी अन्य ऐसे अधिकारी जिन्हें सरकार इस निमित्त प्राधिकृत किसी अन्य व्यक्ति को बिना किसी देरी के, लेकिन दुर्घटना होने के 24 घंटे के भीतर सूचित करना अनिवार्य होगा।

(2) धारा 12 (1) के अधीन दुर्घटना की स्थिति में, लिफ्ट या एस्केलेटर की संस्थापना में बचाव कार्य को छोड़कर किसी भी तरह से बाधा नहीं डाली जायेगी और ऐसे लिफ्ट या एस्केलेटर का कार्य जिला मजिस्ट्रेट, जो अधिकारिता रखने वाले विद्युत निरीक्षक से तकनीकी रिपोर्ट लेने के पश्चात् ही अनुज्ञा देंगे, की पूर्व लिखित अनुज्ञा के बिना पुनः प्रारम्भ नहीं होगा।

(3) आकस्मिक इतिहास की एक पृथक लॉगबुक रखी जाएगी और सार्वजनिक परिसर में संस्थापित लिफ्ट या एस्केलेटर के पास प्रदर्शित की जाएगी और सरकार द्वारा इस निमित्त प्राधिकृत किसी भी अधिकारी द्वारा पूछे जाने पर इसे प्रस्तुत किया जाएगा।

(4) धारा 12 (1) के अधीन किसी भी दुर्घटना के मामले में, जिला मजिस्ट्रेट को किसी विद्युत निरीक्षक और एक कार्यकारी मजिस्ट्रेट से संयुक्त रूप से जांच करने और रिपोर्ट करने की अपेक्षा करेगा :-

(क) सार्वजनिक सुरक्षा को प्रभावित करने वाली किसी दुर्घटना के कारण के बारे में, जो लिफ्ट या एस्केलेटर की संस्थापना, प्रचालन और अनुरक्षण के कारण या उसके संबंध में हो सकती है, या

(ख) इस अधिनियम या उसके अधीन बनायी गयी नियमावली के नियमों के उपबंधों का किस तरह और किस सीमा तक अनुपालन किया गया है, जहां तक वे उपबंध किसी भी व्यक्ति की सुरक्षा को प्रभावित करते हैं।

जिला मजिस्ट्रेट जांच का आदेश देते समय एक अवधि उपदर्शित करेगा जिसके भीतर रिपोर्ट प्रस्तुत की जायेगी।

विद्यमान लिफ्ट एवं एस्केलेटर के मामले में रजिस्ट्रीकरण

ए0एम0सी0 में अंतर्ग्रस्त विनिर्माता, कमीशनिंग और संस्थापन अभिकरण, अभिकरण का रजिस्ट्रीकरण

दुर्घटना और उनकी जांच रिपोर्ट

(5) इस धारा की उपधारा (4) के अधीन जांच करने वाले प्रत्येक विद्युत निरीक्षक और कार्यकारी मजिस्ट्रेट के पास साक्षी की उपस्थिति और दस्तावेजों तथा भौतिक वस्तुओं के प्रस्तुतीकरण और विद्युत निरीक्षक या ऐसे अन्य व्यक्ति द्वारा अपेक्षित प्रत्येक व्यक्ति जो भारतीय दंड संहिता 1860 (अधिनियम संख्या 95, सन् 1860) की धारा 176 के अर्थान्तर्गत ऐसा करने के लिए विधिक रूप से बाध्य हैं को प्रवर्तनीय करने के प्रयोजनार्थ सिविल प्रक्रिया संहिता 1908 (अधिनियम संख्या 5, सन् 1908) के अधीन सिविल न्यायालय की समस्त शक्तियां होंगी।

(6) जांच यथासंभव शीघ्रता से सम्पन्न की जायेगी, किन्तु जिला मजिस्ट्रेट द्वारा बतायी गयी समय-सीमा के पश्चात् नहीं और जांच रिपोर्ट जिला मजिस्ट्रेट को प्रस्तुत की जायेगी।

(7) राज्य सरकार द्वारा यथाविहित रीति से धारा 12(1) के अधीन दुर्घटना के मामले में मृतक के परिवार या घायल व्यक्ति या उसके विधिक अभिभावक, नाबालिग के मामले में, को जांच रिपोर्ट प्रस्तुत करने की अवधि जो विहित अवधि से पूर्व हो स्वामी द्वारा क्षतिपूर्ति सन्दर्भ की जायेगी। जांच रिपोर्ट या किसी भी दावे में दुर्घटना के लिए उत्तरदायी पाए गए किसी भी व्यक्ति से स्वामी आंशिक या पूर्ण रूप से मुआवजा वसूल कर सकता है।

(8) जिला मजिस्ट्रेट यह सुनिश्चित करेगा कि मृतक के परिवार या दुर्घटना में घायल व्यक्ति को धारा 12(1) के अधीन यथाशीघ्र सम्यक क्षतिपूर्ति दिया जाए किन्तु जिला मजिस्ट्रेट द्वारा बताई गयी समय-सीमा से बाद में न हो स्वामी द्वारा क्षतिपूर्ति का संदाय करने में किसी भी देरी या विफलता के मामले में, जिला मजिस्ट्रेट, भू-राजस्व के बकाया के रूप में वसूली के लिए कठोर प्रावधानों का उपयोग करेगा।

लिफ्ट या एस्केलेटर के निरीक्षण के लिए किसी भी भवन में प्रवेश करने का अधिकार

13-(1) अधिनियम या तदधीन बनाए गए नियमों के उपबंधों के अननुपालन के संबंध में किसी भी शिकायत या किसी भी सूचना के मामले में, अधिकारिता वाला कोई भी विद्युत निरीक्षक और जिला मजिस्ट्रेट द्वारा प्राधिकृत कार्यकारी मजिस्ट्रेट, जिला मजिस्ट्रेट की पूर्व अनुमति से सार्वजनिक परिसर में कमिश्निंग या स्थापित लिफ्ट या एस्केलेटर के निरीक्षण हेतु किसी भी भवन में प्रवेश कर सकता है।

(2) किसी भी विद्युत निरीक्षक या उपधारा (1) के अधीन जिला मजिस्ट्रेट द्वारा प्राधिकृत कार्यकारी मजिस्ट्रेट के पास अधिनियम की धारा 12(5) में यथा उल्लिखित समस्त शक्तियां होंगी।

(3) निरीक्षण के पश्चात् निष्कर्षों की एक विस्तृत रिपोर्ट जो जिला मजिस्ट्रेट द्वारा बताई गयी समय-सीमा के बाद की न हो, के भीतर जिला मजिस्ट्रेट को प्रस्तुत की जाएगी।

(4) रिपोर्ट के आधार पर जिला मजिस्ट्रेट अधिनियम के उपबंधों और तदधीन बनाए गए नियमों के अननुपालन से संबंधित रिपोर्ट किए गए निष्कर्षों को सुधारने के लिए स्वामी को निदेश जारी करेगा। स्वामी या इस प्रयोजन के लिए स्वामी द्वारा प्राधिकृत कोई भी व्यक्ति इन निदेशों का पालन करेगा और जिला मजिस्ट्रेट को अनुपालन की रिपोर्ट यथासंभव शीघ्रता से देगा, किन्तु जिला मजिस्ट्रेट द्वारा बताई गयी समय-सीमा के पश्चात् नहीं।

स्पष्टीकरण :- यदि अननुपालन मानव सुरक्षा को खतरे में डालने वाली गंभीर प्रकृति का है, तो जिला मजिस्ट्रेट आदेश देगा और स्वामी यह सुनिश्चित करेगा कि लिफ्ट या एस्केलेटर को ठीक होने तक क्रियाशील नहीं किया जाएगा।

(5) उपधारा (4) के अधीन निदेशों के अननुपालन, इस अधिनियम के अधीन दंडात्मक कार्यवाही के लिए होगी।

बकाया की वसूली

14-इस अधिनियम के अधीन शुल्क या ब्याज या क्षतिपूर्ति या किसी अन्य देयक के रूप में संदेय समस्त धनराशि भू-राजस्व के बकाया के रूप में वसूली योग्य होगी।

विलम्ब शुल्क

15-यदि स्वामी इस अधिनियम या तदधीन बनाए गए नियमों के अधीन यथा विहित किसी भी समय सीमा का उल्लंघन करता है तो उससे विलंब शुल्क लिया जाएगा।

सदभावनापूर्वक कृत कार्यवाही का संरक्षण

16-इस अधिनियम या तदधीन बनाये गये नियमों या आदेश के अधीन सदभावनापूर्वक कृत या किये जाने हेतु आशयित किसी बात के लिये किसी कार्यालय के विरुद्ध कोई वाद, अभियोजन या अन्य विधिक कार्यवाहियां संस्थित नहीं होंगी।

17-(1) इस अधिनियम द्वारा या इसके अधीन किसी भी व्यक्ति को संबोधित करके अपेक्षित या प्राधिकृत प्रत्येक नोटिस, आदेश या दस्तावेज को डाक द्वारा या इलेक्ट्रॉनिक साधन के माध्यम से तामील कराया जा सकता है या छोड़ दिया जा सकता है,—

नोटिस, आदेश या दस्तावेजों का तामिलीकरण

(क) जहां स्थानीय प्राधिकारी के कार्यालय में, एक स्थानीय प्राधिकारी प्रेषिती है

(ख) जहां कंपनी के रजिस्ट्रीकृत कार्यालय में कोई कंपनी प्रेषिती है या भारत में कंपनी के प्रधान कार्यालय में कंपनी का रजिस्ट्रीकृत कार्यालय भारत में नहीं होने की स्थिति में है।

(ग) जहां व्यक्ति के सामान्य या अंतिम ज्ञात स्थान या कारबार पर कोई अन्य व्यक्ति प्रेषिती है।

(2) इस अधिनियम द्वारा या इसके अधीन किसी भी परिसर के स्वामी या स्वामी के अभिकर्ता या अधिभोगी को संबोधित करके अपेक्षित या प्राधिकृत प्रत्येक नोटिस, आदेश या दस्तावेज को समुचित रूप से संबोधित समझा जाएगा, यदि परिसर (परिसर का नामकरण) के "स्वामी" या "स्वामी के अभिकर्ता" या "अधिभोगी" के विवरण द्वारा सम्बोधित किया जाता है और इसे परिसर में किसी व्यक्ति को या इसकी सत्य प्रतिलिपि तामील कराकर या यदि परिसर में कोई व्यक्ति नहीं है तो युक्तियुक्त जल्परतापूर्वक तामील कराया जा सकती है तथा इसे परिसर के किसी सहज दृश्य भाग पर चिपकाकर तामील कराया जा सकती है।

18-(1) जिला मजिस्ट्रेट द्वारा पारित आदेशों के विरुद्ध अपील अधिकारिता वाले स्थितीयजनक कमिश्नर के समक्ष होगी।

अपील

(2) निदेशक, विद्युत सुरक्षा द्वारा पारित आदेशों के विरुद्ध अपील सचिव, ऊर्जा विभाग, उओप्रो शासन द्वारा अभिहित किसी अधिकारी के समक्ष होगी जो विशेष सचिव की श्रेणी से नीचे का न हो।

19-राज्य सरकार, सरकारी गजट में अधिसूचना द्वारा, इस अधिनियम के प्रयोजनों का पालन करने के लिए नियम बना सकती है।

नियम बनाने की शक्ति

20-राज्य सरकार, सरकारी गजट में अधिसूचना द्वारा, इस अधिनियम या तदधीन बनायी गयी नियमावली के उपबंधों का पालन किये जाने से किसी परिसर को छूट प्रदान कर सकती है :

कतिपय परिसरों को छूट दिये जाने की शक्ति

परन्तु यह कि ऐसे परिसरों को छूट दिये जाने के लिये अधिसूचना में उचित औचित्य दिया जायेगा और यह छूट आपवादिक रूप से दिया जायेगा।

21-उत्तर प्रदेश में अवस्थित किसी भी सरकारी या अर्ध-सरकारी या सार्वजनिक क्षेत्र के उपक्रमों के परिसर में स्थापित लिफ्ट या एस्केलेटर पर इस अधिनियम के उपबंधों को लागू करने समय, इस अधिनियम के उपबंध, अनुसूची में विनिर्दिष्ट सीमा तक उपांतरित किये जायेंगे।

सरकारी परिसरों में स्थापित लिफ्ट या एस्केलेटर पर अधिनियम का लागू होना

22-इस अधिनियम में अंतर्विष्ट कोई बात विद्युत अधिनियम, 2003 (अधिनियम संख्या 36, सन् 2003) या तदधीन बनायी गयी नियमावली के उपबंधों को प्रभावित नहीं करेगी।

व्यावृत्ति खण्ड

अनुसूची

(धारा 21 देखें)

- 1 धारा 3 की उपधारा (1) में, शब्द "प्रत्येक स्वामी" के स्थान पर शब्द "प्रत्येक सरकारी प्रभारी अधिकारी" रख दिये जायेंगे।
- 2 धारा 12 की उपधारा (1) में, शब्द "स्वामी या इस प्रयोजन के लिए स्वामी द्वारा सम्यक रूप से प्राधिकृत कोई अन्य व्यक्ति" के स्थान पर शब्द "प्रत्येक सरकारी प्रभारी अधिकारी या उसके द्वारा सम्यक रूप से प्राधिकृत कोई अन्य अधिकारी" रख दिये जायेंगे।
- 3 धारा 17 की उपधारा (1)(क) में, शब्द "स्थानीय प्राधिकारी के कार्यालय में, जहां, स्थानीय प्राधिकारी प्रेषिती है", के स्थान पर शब्द "प्रभारी अधिकारी के कार्यालय में, जहां सरकार प्रेषिती है" रख दिये जायेंगे।

उद्देश्य और कारण

उत्तर प्रदेश में, नगरीकरण में तीव्र वृद्धि, औद्योगिक विकास और बहुमंजिला भवनों के प्रसार के कारण सार्वजनिक के साथ-साथ निजी परिसरों में भी लोगों के मध्य लिफ्ट और एस्केलेटर के उपयोग में बढ़ोतरी हो रही है। राज्य में लिफ्ट और एस्केलेटर के उपयोग में बढ़ोतरी के साथ ही उनसे सम्बंधित दुर्घटनाओं में भी बढ़ोतरी हो रही है। राज्य में लिफ्ट और एस्केलेटर से संबंधित किसी अधिनियमिति के अभाव में बहुमंजिला भवनों में संस्थापित लिफ्ट और एस्केलेटर पर कोई प्रभावी नियंत्रण नहीं है तथा भवन स्वामी किसी सुरक्षा नियमों का पालन किये बिना मनमाने ढंग से लिफ्ट और एस्केलेटर संचालित कर रहे हैं। बहुमंजिला भवनों में निर्माणकर्ता द्वारा संस्थापित लिफ्ट में सुरक्षा युक्तियों का प्रयोग न किए जाने के कारण आवंटियों द्वारा संबंधित विकास प्राधिकरण तथा अन्य मंचों पर शिकायतें की जा रही हैं।

लिफ्ट और एस्केलेटर का उपयोग बहुधा वृद्ध व्यक्तियों, बच्चों और दिव्यांग व्यक्तियों सहित जनसाधारण द्वारा किया जाता है। लिफ्ट और एस्केलेटर का उपयोग करते समय उनकी सुरक्षा अत्यंत महत्वपूर्ण है। इस उद्देश्य को ध्यान में रखते हुए, यह सख्ती से सुनिश्चित किया जाना अपेक्षित है कि लिफ्ट और एस्केलेटर का विनिर्माण, निर्माण, गुणवत्ता, अंतर्निहित सुरक्षा सुविधाएं, संस्थापना, संचालन और अनुरक्षण सुसंगत संहिताओं और प्रक्रियाओं के अनुषक्ति में हो।

उपरोक्त के दृष्टिगत उत्तर प्रदेश राज्य में लिफ्ट और एस्केलेटर और उनसे संबंधित समस्त मशीनरी और साधित्रों के निर्माण, संस्थापन, अनुरक्षण और सुरक्षित चालन के रजिस्ट्रीकरण तथा विनियमन और उससे सम्बंधित तथा आनुषंगिक मामलों का उपबंध करने लिए एक विधि बनाये जाने का विनिश्चय किया गया है।

तदनुसार, उत्तर प्रदेश लिफ्ट और एस्केलेटर विधेयक, 2024 पुरःस्थापित किया जाता है।

आज्ञा से,
अतुल श्रीवास्तव,
प्रमुख सचिव।

No. 64(2)/LXXIX-V-1-2024-1-ka-5-2024

Dated Lucknow, February 26, 2024

IN pursuance of the provisions of clause (3) of Article 348 of the Constitution of India, the Governor is pleased to order the publication of the following English translation of the Uttar Pradesh Lifts and Escalator Adhiniyam, 2024 (Uttar Pradesh Adhiniyam Sankhya 4 of 2024) as passed by the Uttar Pradesh Legislature and assented to by the Governor on February 26, 2024. The Urja Anubhag-3, is administratively concerned with the said Adhiniyam.

THE UTTAR PRADESH LIFTS AND ESCALATORS ACT, 2024

(U.P. Act no. 4 of 2024)

[As passed by the Uttar Pradesh Legislature]

AN

ACT

to provide for the registration and regulation of the construction, installation, maintenance and safe working of lifts and escalators and all machinery and apparatus pertaining thereto in the State of Uttar Pradesh and for matters connected therewith and incidental thereto.

IT IS HEREBY enacted in the Seventy-fifth Year of the Republic of India as follows: -

Shon title and
extent

1. (1) This Act may be called the Uttar Pradesh Lifts and Escalators Act, 2024.

(2) It extends to whole of the State of Uttar Pradesh.

2. In this Act, unless the context otherwise requires,—

Definitions

- (a) "AMC" means Annual Maintenance Contract;
- (b) "Automatic Rescue Device" or "ARD" means a device that operates automatically in case of failure or loss of power supply to move the lift car to a landing and open the landing and lift cage doors simultaneously;
- (c) "Baluster" means a short pillar slender above and bulging below;
- (d) "Balustrade" means a part of escalator or moving walk which ensures the users safely by providing stability, protecting from moving parts and supporting the handrail. It also means barricades on top of the elevator car to prevent fall hazard;
- (e) "Combplate" means a pronged plate that forms part of an escalator landing and engages with the cleats of the steps at the limits of travel;
- (f) "Director, Electrical Safety" means Director of Electrical Safety, Government of Uttar Pradesh and shall include Additional Director of Electrical Safety and Joint Director of Electrical Safety authorized by him;
- (g) "District Magistrate" means the District Magistrate having jurisdiction;
- (h) "Divisional Commissioner" means Divisional Commissioner of a Revenue Division having jurisdiction;
- (i) "Escalator" means a moving inclined continuous stairway or runway used for raising or lowering passengers which is worked by power;
- (j) "Escalator Installation" means an installation which includes the escalator, the operating mechanism, the track, the trusses or girders, the balustrades, the step treads and landings and all chains, wires and plants directly connected with the operation of the escalator;
- (k) "Government" means the Government of the State of Uttar Pradesh;
- (l) "Lift" means a hoisting and lowering mechanism equipped with a cage which moves in an upward and downward direction, and is worked by power and is designed or is actually used to carry passengers or goods or both excluding the hoists or lifts which are covered under the Factories Act, 1948 (Act no. 63 of 1948);
- (m) "Lift Cage" means the car or cage of a lift used for the conveyance of passengers or goods or both;
- (n) "Lift Installations" include the lift cage, the lift way, the lift way enclosure, and the operating mechanism of the lift and all ropes, cables, wires, safety provisions and plant and machinery connected with the operation of the lift;
- (o) "Lift Way" means the shaft or hoist way in which the lift cage travels;

(p) "Lift Way Enclosure" includes any substantial structure surrounding or enclosing the lift way;

(q) "Inspector" means Electrical Inspector nominated by Government of Uttar Pradesh ;

(r) "Owner" means a person or body of persons or a body corporate who owns or operates or maintains lift, escalator or moving walk and shall include his authorized agent for this behalf;

(s) "Passenger" means any person who uses the lift or escalator for the purpose of the conveyance;

Explanation :- For the purpose of this clause , a lift operator shall also be deemed to be a passenger;

(t) "Power" means any form of energy which is not generated by human or animal agency;

(u) "Premises" means any structure, whether temporary or permanent, where a lift or escalator is installed;

(v) "Prescribed" means prescribed by rules made under this Act;

(w) "Private Premise" means someone's own residential house, having one basement floor, ground floor and two floors above ground floor , used by his own self or by his family members ;

(x) "Public Premise" means all premise which are not "Private Premise" ;

(y) "Rated Speed" means the speed at which the lift or escalator is designed to operate;

(z) "Rules" means rules made under this Act;

(aa) "Secretary in Power Department in Government of Uttar Pradesh" means senior most amongst Additional Chief Secretary or Principal Secretary or Secretary in Power Department in Government of Uttar Pradesh;

(ab) "Section" means a section of this Act;

(ac) "State" means the State of Uttar Pradesh .

Registration by
owner to erect
lift or escalator

3. (1) Every owner of a place intending to install a lift or an escalator in any premise after the commencement of this Act, shall make an application in such form as may be prescribed giving full details or information as prescribed, to such officers as the Government may authorize in this behalf.

(2) On receipt of an application under sub section (1), the officer authorized under this section shall register it and a registration number shall be generated to be shared with the applicant.

(3) Applications for "Private Premise" and "Public Premise" shall be registered separately.

(4) After registration, the owner shall get his lift or escalator erected by a person authorized under section 11.

Intimation on
completion of
commissioning
and before use of
lift or escalator

4. The owner who has registered to install a lift or escalator under section 3 shall intimate the completion of commissioning, before use of lift or escalator, to such officers as the Government may authorize in this behalf on a prescribed format for the purpose along with a fee as may be prescribed :

Provided that for the lifts or escalators commissioned in Government premises, no fee shall be charged.

5. The owner who has registered under section 3 and has completed commissioning of the lift or escalator and intimated the same under section 4, shall ensure the following:- Maintenance of lift or escalator

(a) he shall ensure that the lift or escalator in his premise is maintained on a regular periodic interval. He shall compulsorily take comprehensive AMC from the OEM (Original Equipment Manufacturer) or his authorized service provider registered under section 11 ;

(b) he shall submit every year a copy of the AMC for his lift or escalator or any other arrangement made for the maintenance of lifts and escalators to such officers as the Government may authorize in this behalf on a prescribed format ;

Provided that for the lifts or escalators commissioned in private premises, the owner shall not be required to submit the copy of the AMC every year ;

(c) he shall ensure that the lift or escalator is maintained by the competent person or agency authorized under section 11 at least on monthly basis ;

(d) he shall take a fitness certificate from the AMC technical team every time the technical team visits for maintenance or attending to any fault and the entry to this effect shall be made by the AMC technical team in the logbook for periodic maintenance ;

(e) he shall also ensure that any technical fault coming up during day-to-day operations, are attended promptly. Till such technical fault is attended, it shall be obligatory on part of the owner to place a visible display for "NOT IN USE" of the lift or escalator ;

(f) A logbook of periodic maintenance shall be maintained and displayed near lift or escalator installed in Public Premise and the same shall be produced when asked by any such officers as the Government may authorize in this behalf ;

(g) A mock drill exercise shall be taken up at least twice in a year by the owner or his authorized person for safe exit of passengers trapped inside the lift in case of an emergency.

6. The owner shall ensure the provision of installation of an automatic rescue device in the lift to rescue the travelling passengers trapped inside, in case of any breakdown. The device shall be such that the lift reaches at the nearest landing floor and keeping the landing and cage doors open. There shall be adequate light in the lift and two-way communication system to be used by the passenger and emergency bell inside the lift to be used in case of any emergency. There shall be a display of instructions for the passengers about how to use the emergency provisions in the lift : Safety of passenger

Provided that CCTV camera shall be installed in all lifts installed in public premises.

7. In case of Public Premise, the owner shall take insurance mandatorily to cater adequately to any accidents or mishaps during operations of the lift or escalator to cover the risk of passengers using such lift or escalator and the amount payable to the deceased or injured must be commensurate to the norms prescribed by the Government : Insurance

Provided that for the lifts or escalators commissioned in Government premises, no insurance shall be required.

Compliance of various codes for building, electrical-mechanical installation and lift or escalator

8. Save as otherwise provided in this Act, the relevant code of practice with respect to building in which the lift or escalator is to be installed, the lift and escalator itself, any other electrical or mechanical apparatus and installations and any other code of relevance, shall be adhered to. The lifts and escalators in public premises shall be disabled-friendly.

Duration of registration

9. (1) Every registration shall be valid for a period of whole life of the lift or escalator as ascertained by the manufacturer.

(2) In case any alteration or addition is made to an existing lift or escalator, fresh registration shall be mandatory.

(3) In case any lift or escalator installed is shifted to some other premise, fresh registration shall be mandatory.

(4) The period of registration for installations under sub-sections (2) and (3) of this section shall be valid for the fresh life span of the lift or escalator as ascertained by the manufacturer after alteration or addition or shifting.

(5) A lift or escalator installed in the premises shall be uninstalled by the owner of the lift or escalator on expiry of life span of the lift or escalator specified by the manufacturer.

Registration in case of existing lifts and escalators

10. (1) Notwithstanding anything contained in sections 3 and 4, every owner of a place in which a lift or an escalator has been installed prior to the commencement of this Act, shall, within six months from the date of the commencement of this Act, apply to such officers as the Government may authorize in this behalf for registration for operating such lifts or escalators on a prescribed format along with prescribed fee.

(2) The other provisions of this Act shall be applicable on these lifts and escalators. In case any modifications or alterations are required in the lift or escalator to meet out the provisions of this Act, it shall be completed within thirty months from the date of commencement of this Act. Till then, no punitive action shall be taken for such lifts and escalators which are covered under section 10.

Registration of manufacturer, commissioning and installing agency, agency involved in AMC

11. (1) All manufacturers, commissioning and installing agencies and agencies involved for AMC shall get them registered with such officers as the Government may authorize in this behalf.

(2) They shall have to apply for such registration on a prescribed format and along with prescribed fee.

(3) The desired qualifications for them shall be as prescribed by the Government.

(4) In case of any complaint or any information regarding non-compliance of the provisions of the Act or rules made thereunder, such officers as the Government may authorize in this behalf, may give a show cause notice to the manufacturer or commissioning and installing agency or agency involved for AMC. After giving due opportunity of hearing, if the officer finds non-compliance of the provisions of the Act or rules made thereunder he shall cancel his registration.

12. (1) In case of any accident during operation of a lift or escalator resulting into loss of or injury to human or animal life, it shall be obligatory on the part of the owner or any other person duly authorized by owner for the purpose to inform the District Magistrate and in-charge of Police Station having jurisdiction or any other such officers as the Government may authorize in this behalf without any delay but not later than 24 hours of the occurrence of the accident.

Report of
accidents and
inquiries thereof

(2) In case of an accident under section 12 (1), the lift or escalator installation shall not be interfered with in any manner except for the rescue operation and the working of such lift or escalator shall not be resumed except with the prior written permission of the District Magistrate who shall give permission only after taking a technical report from Electrical Inspector having jurisdiction.

(3) A separate logbook of accidental history shall be maintained and displayed near lift or escalator installed in Public Premise and the same shall be produced when asked by any such officers as the Government may authorize in this behalf.

(4) In case of any accident under section 12 (1), the District Magistrate shall require any Electrical Inspector and an Executive Magistrate, jointly, to inquire and report.—

(a) as to the cause of any accident affecting the safety of the public, which may have been occasioned by or in connection with the installation, operation and maintenance of lift or escalator : or

(b) as to the manner in, and extent to which the provisions of this Act or the rules made thereunder, so far as those provisions affect the safety of any person, have been complied with.

The District Magistrate, while ordering the inquiry, shall indicate a period within which the report shall be submitted.

(5) Every Electrical Inspector and Executive Magistrate holding an inquiry under sub section (4) of this section shall have all the powers of a Civil Court under the Code of Civil Procedure, 1908 (Act no. 5 of 1908) for the purpose of enforcing the attendance of witness and compelling the production of documents and the material objects, and every person required by an Electrical Inspector or such other person who are legally bound to do so within the meaning of section 176 of Indian Penal Code, 1860 (Act no. 45 of 1860).

(6) The inquiry shall be concluded as expeditiously as possible, but not later than the time-limit indicated by District Magistrate and the Inquiry Report shall be submitted to the District Magistrate.

(7) Financial compensation shall be paid to the family of the deceased or to the person injured or his legal guardian, in case of a minor, in case of accident under section 12 (1) in the manner as may be prescribed by the Government for the purpose, by the owner not later than the period prescribed since submission of inquiry report. Owner may recover the compensation partly or fully from anyone found responsible for the accident in the inquiry report or any insurance claim.

(8) The District Magistrate shall ensure that due compensation is paid to the family of the deceased or to the person injured in the accident under section 12 (1) as expeditiously as possible, but not later than the time-limit indicated by District Magistrate. In case of any delay or failure to pay compensation by the owner, the District Magistrate shall use coercive provisions as done for the recovery as arrears of land revenue.

Right to enter
any building for
inspection of
lift or escalator

13. (1) In case of any complaint or any information regarding non-compliance of the provisions of the Act or rules made thereunder, any Electrical Inspector having jurisdiction and Executive Magistrate authorized by District Magistrate may enter any building for inspection of lift or escalator under commissioning or installed in public premises with prior permission of District Magistrate.

(2) Any Electrical Inspector and Executive Magistrate authorized by District Magistrate under sub-section (1) shall have all powers as mentioned in section 12(5) of the Act.

(3) A detailed report of the findings after inspection shall be submitted to the District Magistrate as expeditiously as possible, but not later than the time-limit indicated by District Magistrate.

(4) Based on the report, the District Magistrate shall issue directions to the owner to rectify the reported findings relating to non-compliance of the provisions of the Act and rules made thereunder. The owner or any person authorized by owner for the purpose shall comply these directions and report compliance to the District Magistrate as expeditiously as possible, but not later than the time-limit indicated by District Magistrate.

Explanation: In case the non-compliance is of serious nature endangering human safety, the District Magistrate shall order and the owner shall ensure that the lift or escalator shall not be in operation till it is rectified.

(5) Non-compliance of the directions under sub - section (4) shall lead to penal action under this Act.

Recovery of
Dues

14. All sum payable as fees or interest or compensation or any other dues under this Act shall be recoverable as arrears of the land revenue.

Late Fees

15. A late fee shall be charged to the owner in case he violates any timeline prescribed under this Act or rules made thereunder as prescribed.

Protection
for acts done
in good faith

16. No suit, prosecution or other legal proceedings shall be instituted against any office for anything which is done in good faith, or intended to be done under this Act or the rules or the order made thereunder.

Service of
notices, orders
or documents

17. (1) Every notice, order or document by or under this Act required or authorized to be addressed to any person may be served by post or through electronic mode or left —

(a) where a local authority is the addressee, at the office of the local authority ;

(b) where a company is the addressee, at the registered office of the company or in the event of the registered office of the company not being in India, at the head office of the company in India ;

(c) where any other person is the addressee, at the usual or last known place of abode or business of the person.

(2) Every notice, order or document by or under this Act required or authorized to be addressed to the owner or the agent of the owner or occupant of any premises shall be deemed to be properly addressed, if addressed by the description of the "owner" or "agent of the owner" or "occupant" of the premises (naming the premises) and may be served by delivering it or a true copy thereof to some person on the premises or, if there is no person on the premises to whom the same can with reasonable diligence be delivered, by affixing it on some conspicuous part of the premises.

18. (1) Appeals against the orders passed by District Magistrate shall lie to the Appeals Divisional Commissioners having jurisdiction.

(2) Appeals against the orders passed by Director, Electrical Safety shall lie to an officer designated by Secretary in Power Department in Government of Uttar Pradesh not below the rank of Special Secretary.

19. The State Government may, by notification in the Official Gazette, make rules to carry out the purposes of this Act. Power to make rules

20. The State Government may, by notification in the Official Gazette, exempt any premise from adhering to the provisions of this Act or rules made thereunder : Power to exempt certain premises

Provided that due justification shall be given in the notification for exempting such premise and it will be done exceptionally.

21. In the application of the provision of this Act to lifts or escalators installed in any premise situated in Uttar Pradesh belonging to any Government or Semi-Government or Public Sector Undertakings, the provisions of this Act shall be modified to the extent specified in the Schedule. Application of Act to lifts or escalators installed in Government premises

22. Nothing contained in this Act shall affect the provisions of the Electricity Act, 2003 (Act no. 36 of 2003) or any rules made thereunder. Saving Clause

SCHEDULE
(See section 21)

1	In sub-section (1) of section 3, for the words "every owners", the words "every Government Officer-in-charge" shall be substituted.
2	In sub-section (1) of section 12, for the words "the owner or any other person duly authorized by owner for the purpose", the words "every Government Officer-in-charge or any other officer duly authorized by him" shall be substituted .
3	In sub-section (1) (a) of section 17, for the words "where a local authority is the addressee, at the office of the local authority", the words "where government is addressee, at the office of the officer-in-charge" shall be substituted .

STATEMENT OF OBJECTS AND REASONS

Due to rapidly increasing urbanization, industrial growth and proliferation of multi-storey buildings in Uttar Pradesh, the use of lifts and escalators is increasing among people in public as well as private premises. With the increasing use of lifts and escalators in the State, accidents related to them are also increasing. In the absence of an enactment pertaining to lifts and escalators in the state, there is no effective control on the lifts and escalators installed in multi-storied buildings and building owners are operating lifts and escalators arbitrarily without following any safety rules. Due to non-use of safety devices in lifts installed by builders in multi-storey buildings, complaints are being made by the allottees to the concerned development authority and other forums.

Lifts and escalators are frequently used by the general public including elderly persons, children and persons with disabilities. Their safety, while using lifts and escalators is of utmost importance. With this objective in mind, it is required to be strictly ensured that the manufacturing, construction, quality, built-in safety features, installation, operation and maintenance of lifts and escalators is in adherence to the relevant codes and procedures.

In view of the above, it has been decided to make a law to provide for the registration and regulation of the construction, installation, maintenance and safe working of lifts and escalators and all machinery and apparatus pertaining thereto in the State of Uttar Pradesh and for matters connected therewith and incidental thereto.

The Uttar Pradesh Lifts and Escalators Bill, 2024 is introduced, accordingly.

By order,
ATUL SRIVASTAVA,
Pramukh Sachiv.

पी०एस०यू०पी०-ए०पी० 1140 राजपत्र-2024-(3161)-599 प्रतियां (डी०टी०पी०/ऑफसेट)।

पी०एस०यू०पी०-ए०पी० 175 सा० विधायी-2024-(3162)-300 प्रतियां (डी०टी०पी०/ऑफसेट)।

1140 RPH 2024 (Fift) (Adhiniyam) data 1e



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असाधारण
EXTRAORDINARY

भाग III—खण्ड 4
PART III—Section 4

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 61]
No. 61]

नई दिल्ली, सोमवार, जनवरी 30, 2023/माघ 10, 1944
NEW DELHI, MONDAY, JANUARY 30, 2023/MAGHA 10, 1944

केंद्रीय विद्युत प्राधिकरण अधिसूचना

नई दिल्ली, 25 जनवरी, 2023

सं. केविप्रा-टीएच-17-13/4/2022-टीईटीडी प्रभाग.—विद्युत (पूर्व प्रकाशन के लिए प्रक्रिया) नियम, 2005 के नियम (3) के उप-नियम (2) के साथ पठित विद्युत अधिनियम, 2003 (2003 का 36) की धारा 177 की उप-धारा (3) द्वारा यथा अपेक्षित केंद्रीय विद्युत प्राधिकरण (कोयला आधारित ताप विद्युत उत्पादन इकाइयों का लचीला संचालन) विनियम, 2022 का प्रारूप को छह दैनिक समाचार पत्रों में प्रकाशित किया गया था, जिसमें उक्त प्रारूप विनियमों में अंतर्विष्ट समाचार पत्र की प्रतियां जनता को उपलब्ध कराई गईं तारीख से 46 दिनों की अवधि के समाप्त होने से पूर्व इसके द्वारा प्रभावित होने वाले सभी संभावित व्यक्तियों से आक्षेप और सुझाव मांगे गए थे;

और केंद्रीय विद्युत प्राधिकरण की वेबसाइट पर सार्वजनिक सूचनाओं वाले उक्त समाचार पत्रों और उक्त प्रारूप विनियमों की प्रतियां जनता को 12 जुलाई, 2022 को उपलब्ध करा दी गई थीं;

और उक्त प्रारूप विनियमों पर जनता से प्राप्त आक्षेपों और सुझावों पर केन्द्रीय विद्युत प्राधिकरण द्वारा विचार कर लिया गया था;

अतः अब विद्युत अधिनियम, 2003 की धारा 73 के खंड (ख) के साथ पठित धारा 177 की उप-धारा (2) के खंड (ड), के अनुसरण में, केंद्रीय विद्युत प्राधिकरण निम्नलिखित विनियम बनाता है, अर्थात्:-

1. **संक्षिप्त नाम और प्रारंभ-** (1) इन विनियमों का संक्षिप्त नाम केंद्रीय विद्युत प्राधिकरण (कोयला आधारित ताप विद्युत उत्पादन इकाइयों का लचीला संचालन) विनियम, 2023 है।
(2) ये विनियम राजपत्र में उनके अंतिम प्रकाशन की तारीख से लागू होंगे।

2. **परिभाषाएं-** (1) इन विनियमों में, जब तक कि संदर्भ से अन्यथा अपेक्षित न हो,
- (क) "अधिनियम" से विद्युत अधिनियम, 2003 (2003 का 36) अभिप्रेत है;
- (ख) "लचीला संचालन" से कोयला आधारित ताप विद्युत उत्पादन इकाइयों की ग्रिड की आवश्यकता के अनुसार इन विनियमों में उल्लिखित निर्दिष्ट स्तरों पर विद्युत उत्पन्न करने की क्षमता अभिप्रेत है;
- (ग) "अधिकतम निरंतर विद्युत रेटिंग" से जनरेटर टर्मिनलों पर मेगा वाट में व्यक्त अधिकतम निरंतर विद्युत उत्पादन, रेटेड मापदंडों पर उत्पादन इकाइयों के विनिर्माता द्वारा गारंटीकृत है; अभिप्रेत है
- (घ) "न्यूनतम विद्युत स्तर" से अधिकतम निरंतर विद्युत रेटिंग के प्रतिशत में व्यक्त न्यूनतम विद्युत उत्पादन, जिसे कोयला आधारित ताप विद्युत उत्पादन इकाई बिना तेल सहायता के लगातार बनाए रख सकती है; अभिप्रेत है
- (ङ) "रैंप दर" से अधिकतम निरंतर विद्युत रेटिंग के प्रतिशत में विद्युत उत्पादन के परिवर्तन की प्रति मिनट में व्यक्त दर अभिप्रेत है।
- (2) उन शब्दों और पदों के जो इसमें प्रयुक्त और परिभाषित नहीं हैं किंतु अधिनियम और उसके अधीन बनाए गए नियमों में परिभाषित हैं, वही अर्थ होंगे जो उस अधिनियम और उसके अधीन बनाए गए नियमों में हैं।
3. **लागू होना** – ये विनियम केंद्रीय सरकार, राज्य सरकारों के स्वामित्व या नियंत्रण में या ग्रिड से जुड़ी किसी भी प्राइवेट कंपनी के स्वामित्व वाली सभी कोयला आधारित ताप विद्युत उत्पादन इकाइयों और भार प्रेषण केंद्रों पर लागू होंगे।
4. **साधरण अपेक्षाएँ** - (1) कोयला आधारित ताप विद्युत उत्पादन इकाइयों को उस स्थान पर प्रचलित परिवेशी और पर्यावरणीय परिस्थितियों की पूरी श्रृंखला के लिए इन विनियमों का अनुपालन करने के लिए, यदि अपेक्षित हो, डिजाइन या उपयुक्त रूप से रेट्रोफिट किया जाएगा।
- (2) स्थापित सभी उपकरण और प्रणालियाँ, यथा लागू, विनियमों और सुरक्षा कोडों के उपबंधों का पालन करेंगी।
5. **कोयला आधारित ताप विद्युत उत्पादन इकाइयों का लचीला संचालन-** (1) कोयला आधारित ताप विद्युत उत्पादन इकाइयों इन विनियमों के अनुसार लचीला संचालन प्रदान करने में सक्षम होंगी।
- (2) कोयला आधारित ताप विद्युत उत्पादन इकाइयों के लचीले संचालन का कार्यान्वयन समय-समय पर प्राधिकरण द्वारा विनिर्दिष्ट चरणबद्ध योजना के अनुसार होगा।
- (3) सभी भार प्रेषण केंद्र अपने अधिकार क्षेत्र के अधीन कोयला आधारित ताप विद्युत उत्पादन इकाइयों को, इन विनियमों में विनिर्दिष्ट लचीले संचालन क्षमताओं पर विचार करते हुए, शेड्यूल करेंगे।
6. **लचीले संचालन के लिए कोयला आधारित ताप विद्युत उत्पादन इकाइयों की न्यूनतम विद्युत स्तर की क्षमता-** कोयला आधारित ताप विद्युत उत्पादन इकाइयों में चालीस प्रतिशत के न्यूनतम विद्युत स्तर का लचीला संचालन क्षमता होगा।
- परंतु उत्पादन इकाइयों जो पचपन प्रतिशत के न्यूनतम विद्युत स्तर को प्राप्त करने में सक्षम नहीं हैं, उन्हें इन विनियमों की अधिसूचना के एक वर्ष के भीतर यह सक्षमता प्राप्त करनी होगी।
- परंतु यह और कि उत्पादन इकाइयों जो चालीस प्रतिशत के न्यूनतम विद्युत स्तर को प्राप्त करने में सक्षम नहीं हैं, उन्हें इन विनियमों के विनियम 5 के उप-विनियम (2) में उल्लिखित चरणबद्ध योजना के अनुसार यह सक्षमता प्राप्त करनी होगी।
7. **लचीला संचालन के लिए कोयला आधारित ताप विद्युत उत्पादन इकाइयों की रैंप दर क्षमताएं-** (1) कोयला आधारित ताप विद्युत उत्पादन इकाइयों में अधिकतम निरंतर विद्युत रेटिंग के सत्तर प्रतिशत से सौ प्रतिशत के बीच उनके संचालन के लिए न्यूनतम तीन प्रतिशत प्रति मिनट की रैंप दर क्षमता होगी और अधिकतम निरंतर विद्युत रेटिंग के पचपन प्रतिशत से सत्तर प्रतिशत के बीच उनके संचालन के लिए न्यूनतम दो प्रतिशत प्रति मिनट की रैंप दर क्षमता होगी।
- परंतु उत्पादन इकाइयों जो इस विनियम का अनुपालन करने में सक्षम नहीं हैं, इन विनियमों की अधिसूचना के एक वर्ष के भीतर इसका अनुपालन करेंगी।

- (2) कोयला आधारित तापीय विद्युत उत्पादन इकाइयां इन विनियमों के विनियम 5 के उप-विनियम (2) में उल्लिखित चरणबद्ध योजना के अनुसार अधिकतम निरंतर विद्युत दर के चालीस प्रतिशत से पचपन प्रतिशत के बीच उनके संचालन के लिए न्यूनतम एक प्रतिशत प्रति मिनट की रैंप दर क्षमता प्राप्त करेंगी।
8. **विनियमों का शिथिलीकरण** - प्राधिकरण, मामला दर मामला आधार पर, प्राधिकरण को निर्दिष्ट मामले के संबंध में लेखबद्ध किए जाने वाले कारणों के लिए और आदेश द्वारा इन विनियमों के किसी उपबंध को शिथिल कर सकेगा।

राकेश गोयल, सचिव

[विज्ञापन-III/4/असा./588/2022-23]

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 25th January, 2023

CEA-TH-17-13/4/2022-TETD Division.—Whereas the draft of the Central Electricity Authority (Flexible Operation of Coal based Thermal Power Generating Units) Regulations, 2022 was published in six newspaper dailies, as required by sub-section (3) of Section 177 of the Electricity Act, 2003 (36 of 2003) read with sub-rule (2) of rule 3 of the Electricity (Procedure for Previous Publication) Rules, 2005 for inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of forty-six days, from the date on which the copies of the newspaper containing the said draft regulations were made available to the public;

And whereas copies of the said newspapers containing the public notices and the said draft regulations on the website of the Central Electricity Authority were made available to the public on the 12th July, 2022;

And whereas the objections and suggestions received from the public on the said draft regulations were considered by the Central Electricity Authority;

Now, therefore, in pursuance of clause (e) of sub-section (2) of Section 177 of the Electricity Act, 2003 read with clause (b) of Section 73 of the said Act, the Central Electricity Authority hereby makes the following regulations, namely:

1. **Short title and commencement.**- (1) These regulations may be called the Central Electricity Authority (Flexible Operation of Coal based Thermal Power Generating Units) Regulations, 2023.
(2) They shall come into force on the date of their final publication in the Official Gazette.
2. **Definitions.**- (1) In these regulations, unless the context otherwise requires,
 - (a) “Act” means the Electricity Act, 2003 (36 of 2003);
 - (b) “flexible operation” means the ability of coal based thermal power generating units to generate power at specified levels mentioned in these regulations, as per the requirement of the grid;
 - (c) “maximum continuous power rating” means maximum continuous output power expressed in Mega Watt at the generator terminals as guaranteed by the manufacturer of generating units at the rated parameters;
 - (d) “minimum power level” means the minimum output power expressed in percentage of maximum continuous power rating that the coal based thermal power generating unit can sustain continuously without oil support;
 - (e) “ramp rate” means the rate of change of output power, expressed in percentage of maximum continuous power rating, per minute.
 (2) Words and expressions used herein and not defined but defined in the Act and the rules made thereunder shall have the meanings assigned to them in that Act and rules made thereunder.
3. **Applicability.**- These regulations shall apply to all coal based thermal power generating units owned or under control of the Central Government, State Governments or owned by any private company, connected with the grid and to the load despatch centers.
4. **General requirements.**- (1) The coal based thermal power generating units shall be designed or suitably retrofitted, if required, to comply with these regulations for full range of ambient and environmental conditions prevailing at the site.
(2) All equipment and systems installed shall comply with the provisions of statutes, regulations and safety codes, as applicable.

5. **Flexible operation of coal based thermal power generating units.-** (1) The coal based thermal power generating units shall be capable of providing the flexible operation as per these regulations.
- (2) The implementation of flexible operation of the coal based thermal power generating units shall be as per the phasing plan specified by the Authority from time to time.
- (3) All load despatch centers shall schedule the coal based thermal power generating units, under their jurisdiction, considering the flexible operation capabilities as specified in these regulations.
6. **Minimum power level capabilities of coal based thermal power generating units for flexible operation.-** The coal based thermal power generating units shall have flexible operation capability with minimum power level of forty percent.
- Provided that the generating units which are not capable of achieving minimum power level of fifty-five percent, shall achieve the same within one year of the notification of these regulations.
- Provided further that the generating units which are not capable of achieving minimum power level of forty percent, shall achieve the same as per phasing plan mentioned in the sub-regulation (2) of regulation 5 of these regulations.
7. **Ramp rates capabilities of coal based thermal power generating units for flexible operation.-** (1) The coal based thermal power generating units shall have ramp rate capability of minimum three percent per minute for their operation between seventy percent to hundred percent of maximum continuous power rating and shall have ramp rate capability of minimum two percent per minute for their operation between fifty-five percent to seventy percent of maximum continuous power rating.
- Provided that the generating units which are not capable to comply with this regulation, shall comply with the same within one year of the notification of these regulations.
- (2) The coal based thermal power generating units shall achieve ramp rate capability of minimum one percent per minute for their operation between forty percent to fifty-five percent of maximum continuous power rating as per phasing plan mentioned in the sub-regulation (2) of regulation 5 of these regulations.
8. **Relaxation of regulations. -** The Authority may, by an order and for the reasons to be recorded in writing, relax any provision of these regulations in respect of the matter referred to the Authority, on case to case basis.

RAKESH GOYAL, Secy.

[ADVT.-III/4/Exty./588/2022-23]



उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
UTTAR PRADESH POLLUTION CONTROL BOARD

पत्रांक संख्या-1103091/सी-5/सामान्य-568/23

दिनांक 20/11/23
पंजीकृत

सेवा में,

मैसर्स नेशनल थर्मल पॉवर प्लांट (एन.टी.पी.सी.),
ऊँचाहार,
रायबरेली।

मा 8467049875

विषय: मैसर्स नेशनल थर्मल पॉवर प्लांट (एन.टी.पी.सी.), ऊँचाहार, रायबरेली से जनित राख से आस-पास के ग्रामों का वातावरण दूषित होने एवं राख से लोगों के सांस लेने तथा अन्य गम्भीर बीमारियों होने व भूजल के प्रदूषित होने आदि से संबंधित गम्भीर समस्याओं की जाँच के संबंध में।

महोदय,

उपरोक्त विषयक का संदर्भ ग्रहण करने का कष्ट करें। अवगत कराना है कि पर्यावरण, वन एवं जलवायु परिवर्तन, अनुभाग-6, उ0प्र0 शासन के पत्र संख्या-294/81-6-2023 दिनांक 05.08.2023 के माध्यम से विधान सभा के प्रथम सत्र-2023 के द्वितीय बुधवार हेतु श्री मनोज कुमार पाण्डेय, मा0 सदस्य विधान सभा द्वारा पूछे गये तारांकित प्रश्न संख्या-7 के अनुक्रम में गठित संयुक्त समिति द्वारा उद्योग मैसर्स नेशनल थर्मल पॉवर प्लांट (एन.टी.पी.सी.), ऊँचाहार, रायबरेली व आस-पास के गाँवों में हो रही समस्या की जाँच दिनांक 06.07.2023 को की गयी। समिति द्वारा की गयी संस्तुति के आधार पर उद्योग को वायु (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1981 (यथासंशोधित) की धारा-31ए के अन्तर्गत निम्न निर्देश जारी किये जाते हैं:-

1. कोल हैण्डलिंग प्लांट (सी.एच.पी.) स्टोरेज यार्ड के पूर्वी एरिया में जहाँ पर कोल का भण्डारण किया जाता है, उस क्षेत्र में एयरोडायनमिक शेड की स्थापना हेतु एक माह के अन्दर समयबद्ध कार्ययोजना प्रदूषण नियंत्रण बोर्ड के समक्ष प्रस्तुत करें, जिससे की पूर्व दिशा से चलने वाली हवा फाईन कोल के साथ मिश्रित होकर आगे न जाने पाए, जिससे की ग्राम बिकई में फाईन डस्ट पार्टिकल का प्रभाव न पड़े।
2. कोल हैण्डलिंग प्लांट (सी.एच.पी.) में स्थित वायु प्रदूषण नियंत्रण की व्यवस्था को शुद्ध करते हुए सतत अनुश्रवण रखा जाये।
3. कोल हैण्डलिंग प्लांट (सी.एच.पी.) एरिया में कनवेयर बेल्ट्स से प्लांट में डिस्चार्ज स्थल तक कनवेयर पाईप की ऊँचाई कम की जाये।
4. उद्योग की चिमनी में स्थापित वायु प्रदूषण नियंत्रण की व्यवस्था को शुद्ध करते हुए सतत अनुश्रवण रखा जाये।
5. समस्त चिमनियों में फ्लू गैस डिसल्फराइजेशन यूनिट की स्थापना पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की अधिसूचना दिनांक 05.09.2022 में निर्धारित समय सीमा के अनुसार किया जाये।
6. ऐश का ट्रान्सपोर्टेशन केन्द्रीय प्रदूषण नियंत्रण बोर्ड द्वारा जारी गाईड लाईन के अनुसार किया जाये।
7. ऐश के ट्रान्सपोर्टेशन के दौरान ऐश की ढुलाई हेतु प्रयुक्त वाहनों की ओवर लोडिंग को रोकने हेतु समुचित कार्यवाही की जाये।
8. ऐश लोडिंग-अनलोडिंग स्थल पर पी.टी.जेड. वेब कैमरा को स्थापित कर उद्योग के कंट्रोल रूम से कनेक्ट कर नियमित रूप से अनुश्रवण किया जाये तथा उसका यू.आर.एल. आई.डी. एवं पासवर्ड राज्य प्रदूषण नियंत्रण बोर्ड को भी उपलब्ध कराया जाये।

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9. उद्योग द्वारा परिसर में स्थापित कॉन्टीन्युअस मॉनीटरिंग सिस्टम का नियमित रूप कैलीब्रेशन सुनिश्चित कराया जाये एवं नियमित अनुश्रवण रखा जाये तथा यह सुनिश्चित किया जाये कि किसी भी दशा में परिवेशीय वायु गुणता निर्धारित मानक से अधिक न होने पाये।
10. एन.टी.पी.सी. गंगा भवन (गेस्ट हाउस) के पास स्थित सड़कों पर नियमित रूप से स्वीपिंग एवं जल छिड़काव की व्यवस्था तत्काल सुनिश्चित कराई जाये, जिससे परिवेशीय वायु गुणता मानकों के अनुरूप बनी रहें।
11. उद्योग में स्थापित सीवेज ट्रीटमेन्ट प्लाण्ट में फीकल कोलीफार्म का स्तर निर्धारित मानकों के अनुरूप रखने हेतु एक माह के अन्दर आवश्यक सुधार किया जाये।
12. उद्योग द्वारा सी.एस.आर. एक्वीविटी के अन्तर्गत उद्योग के चारों तरफ स्थित ग्रामों में कैम्प लगाकर स्थानीय नागरिकों का स्वास्थ्य की जाँच नियमित रूप से कराई जाये।
13. उद्योग द्वारा आस-पास स्थित ग्रामों के भूगर्भ जल का अनुश्रवण नियमित रूप से किसी मान्यता प्राप्त सरकारी संस्थान से कराया जाये तथा उसकी आख्या नियमित रूप से राज्य बोर्ड को उपलब्ध कराई जाये।

अतः उपरोक्त के संबंध में आपको निर्देशित किया जाता है कि उक्त वर्णित निर्देशों का अनुपालन सुनिश्चित करते हुए साक्ष्य सहित अनुपालन आख्या 15 दिन में बोर्ड मुख्यालय प्रेषित करना सुनिश्चित करें अन्यथा उद्योग के विरुद्ध वायु (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1981 यथासंशोधित के आज्ञापक प्राविधानों के अन्तर्गत नियमानुसार कार्यवाही प्रारम्भ कर दी जायेगी, जिसका सम्पूर्ण उत्तरदायित्व स्वयं उद्योग का होगा।

सक्षम अधिकारी द्वारा अनुमोदनोपरान्त पत्र निर्गमन हेतु अधिकृत

भवदीय,

मुख्य पर्यावरण अधिकारी, वृत्त-5

प्रतिलिपि:- क्षेत्रीय अधिकारी, उ०प्र० प्रदूषण नियंत्रण बोर्ड, रायबरेली को इस निर्देश के साथ प्रेषित कि उद्योग को जारी निर्देशों का अनुपालन सुनिश्चित कराये तथा अनुपालन आख्या बोर्ड मुख्यालय प्रेषित करना सुनिश्चित करें।

मुख्य पर्यावरण अधिकारी, वृत्त-5