



एनटीपीसी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

नॉर्थ करणपुरा/NORTH KARANPURA

Ref: NKSTPP/EMG/MoEF&CC/EC/02

Dated: - 09.06.2020

To
The Regional Officer,
Ministry of Environment and Forests,
Regional office (ECZ),
Bungalow No - A2, Shyamali Colony,
Ranchi-834002

Ref. No: J-13011/26/89-IA-II(T) dated 29.11.2004 & J-13011/26/89-IA-II(T) dated 19.02.2014


Sub: Half Yearly compliance Report of conditions stipulated in Environmental Clearance of North Karanpura Super Thermal Power Project (3x660MW)

In reference to your letter under reference No.J-13011/26/89-IA-II (T) dated 19.02.2014, the half yearly compliance report regarding compliance of conditions stipulated in Environmental Clearance for the period **Oct'2019 to march 2020** is attached herewith.

This is for your kind information please.

Thanking you,

Your Sincerely,


T. Gupta
GM (Projects)
NKSTPP

Enc: As Above:

Copy to:

- (i) Member Secretary, Jharkhand Pollution Control Board, T.A Division Building, HEC Campus, P.O. Dhurwa, Ranchi-834004, Jharkhand.

उत्तरी करणपुरा बृहत ताप विद्युत परियोजना (3x660मेगावाट) ग्राम: टंडवा, जिला: चतरा, झारखण्ड (825415)
North karanpura Super Thermal Power Project (3x600 MW) Village: Tandwa, Dist: Chatra, Jharkhand (825415)
पंजीकृत कार्यालय: एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7 इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110003
Registered Office: NTPC Bhawan, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi-110003
www.ntpc.co.in



North Karanpura

A Maharatna Company

**HALF YEARLY COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE (EC)
FOR NORTH KARANPURA STPP (3X660 MW)**

Date-09th June, 2020

A. Compliance Report for Conditions Stipulated vide MOEF Letter No. 13011/26/89-IA-II(T) dated 29.11.2004

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Sl. No.	Stipulations of conditions	Status (As on 31.03.2020)
i.	The conditions stipulated by Bihar State Pollution Control Board (BSPCB) vide their letter no. BS/60 dated 31.12.2001 shall be strictly implemented	Shall be strictly implemented.
ii.	Environmental clearance for construction of dam and Forest clearance if Forest land is involved for MGR, shall be obtained separately from the Ministry of Environment and Forests (MoEF)	<p>Environmental Clearance for Garhi Dam has been accorded by MOEF vide letter dated 09.09.2005.</p> <p>Forest Clearance-NKSTPP Project Area</p> <p>Stage-I Forest Clearance has been accorded by MOEF&CC vide their letter no F.No.8-76/2007-FC dated 08.06.2009.</p> <p>Stage-II Forest Clearance has been accorded by MOEF&CC vide their letter no F.No.8-76/2007-FC dated 03.11.2015 for the forest land involved in project (<i>Copy already submitted with Half Yearly EC compliance report vide our letter no NKSTPP/EMG/MoEF&CC/EC/04/271 dated 25.04.2016</i>).</p> <p>NTPC reviewed the proposal for construction of dam on Garhi River for withdrawal of water. Due to huge submergence of forest land after construction of dam, NTPC has change the technology to reduce its water requirement.</p> <p>A permission was sought from Government of Jharkhand to construct weir/barrage across Garhi River for withdrawal of 20 cusec water. Government of Jharkhand granted NOC for construction of weir across the Garhi River vide letter no 468 dated 22/06/2015.</p>

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9/06/2020

(Sanjoy Kumar.)

Sl. No.	Stipulations of conditions	Status (As on 31.03.2020)
iii.	R&R Plan shall be prepared in consultation with Govt. of Jharkhand and the same shall be submitted to MoEF within a period of 6 months from the date of clearance letter.	<p>R&R Plan was formulated earlier but with the revival of project, affected persons approached Govt. for enhanced package. The enhanced package has been finalized in the VDAC meeting held on 04.12.2013 in consultation with District Administration/ Govt. of Jharkhand. The enhanced compensation is being disbursed to beneficiaries. A total amount of Rs. 304.32 Cr has been disbursed till Mar' 2020.</p> <p>The Community Development activities are being implemented in consultation with stakeholders. A provision of Rs 48 Cr has been kept for Community Development activities broadly related to Health Activities, Education Activities, Sports, Arts, Culture Activities, Infrastructure Activities, Training & Implementation Activities, Drinking water facilities, Solar Power facilities etc.</p> <p>Rs 4.09 Cr spent during this period and total cumulative amount of Rs 25.77 Cr has been spent till March 2020.</p>
iv.	It shall be ensured that there is no leaching of heavy metals from the Ash Ponds and necessary corrective measures including clay blanketing shall be taken, A copy of the detailed design of the ash pond along with a note on necessary corrective measures to be taken shall be furnished to MoEF within 3 months .	North Karanpura STPP envisages High Concentration Slurry Disposal System (HCSD) for Ash Disposal. In HCSD system, the disposed layers of ash is solidified and there is no free water for overflow and no leachate or no risk of ash dyke getting breached.
v.	No earth shall be taken out from the ash pond area for any purpose.	Being complied
vi.	A minimum distance of 500 m from plant boundary to the riverine system including the submergence level shall be maintained	<p>Complied.</p> <p>In the design of layout, a minimum distance of 500 m from plant boundary to riverine system has been maintained.</p>
vii.	Copy of the permission for re-alignment of the road passing through the ash pond area shall be submitted to MoEF within 3 months from the grant of clearance.	Consent letter from RCD, GoJ has been submitted in our earlier compliance report vide our letter no 043/GM/NK/ dated 23.04.2014.
viii.	List of flora / fauna duly authenticated by the PCCF / CWLW or Academic	Already submitted.

Bhuma
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Sl. No.	Stipulations of conditions	Status (As on 31.03.2020)
	Institution / University shall be submitted within 3 months from the grant of clearance.	
ix.	Copy of the necessary coal linkage shall be submitted to MoEF within 6 months from the grant of clearance.	Already submitted.
x.	Two stacks (one bi-flue and one single flue) of 275 m each shall be provided with continuous online monitoring system. Exit velocity of 22 m/sec shall be maintained.	<p>Three stacks (single flue) of 275 m each shall be provided with Online Continuous Stack Emission Monitoring System (CSEMS).</p> <p>The exit velocity of 22 m/sec shall be maintained during operation.</p> <p>Construction of stacks is in under progress and details are as bellow.</p> <p>Stack of Unit-I,II & III - Shell casting of all the three Chimneys completed. Structural work under progress.</p>
xi.	Electrostatic Precipitators (ESP) having efficiency of 99.9 % shall be installed to limit SPM emission up to 100 mg/Nm ³ .	This Condition no (xi) is deleted now vide the MoEF letter no J-13011/26/89-IA.II(T) dated 31.10.2014 regarding amendment of EC report date. (Copy already submitted with Half yearly EC compliance dtd. 08.04.2015)
xii.	Ash generation will be 13,394 TPD. Ash will be utilised in cement and brick manufacturing, roads / embankments, agriculture / wasteland development and for backfilling of abandoned mines. This shall be used in a phased manner as per provisions of the notification on Fly ash Utilisation issued by the Ministry in September 1999 and its subsequent amendments. Full fly ash utilisation shall be ensured by the end of 9 th year from the date of commissioning of the plant.	<p>The quantity of ash generation has been revised as 11000 Tons/day dated 19.02.2014.</p> <p>NTPC will make best efforts to utilise ash in manufacturing of cement, ready mix concrete and bricks, construction of roads and embankments. Efforts will be made to achieve 100% ash utilisation by the end of 4th year from the date of commissioning of the plant.</p>
xiii.	Water requirement shall not exceed 10,100 m ³ /hr. Waste water shall be recycled and reused in the plant.	<p>The water requirement has been revised as per EC dated 19.02.2014. This is likely to reduce further after adoption of dry cooling system, for which an amendment in EC is already received from MOEF vide their letter no J-13011/26/89-IA.II(T) dated 31.10.2014.(Copy already submitted with Half Yearly EC compliance report dated. 08.04.2015.</p> <p>The requirement shall be maintained within the final stipulated quantity 2,180 m³/hr instead of 10,100 m³/hr.</p>

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Sl. No.	Stipulations of conditions	Status (As on 31.03.2020)
		Waste water shall be treated and recycled & reused in the plant during operation stage.
xiv.	Appropriate rainwater harvesting technology shall be finalised in consultation with the Central Groundwater Authority / Board within a period of 2 months from the date of clearance.	<p>CGWB, Patna has approved the rainwater harvesting scheme for following areas.</p> <p>(i) Enabling Township: Vide their letter no CGWB/MER/CGWA/2014/227 dated 26.02.2015</p> <p>(ii) Main Plant area: Vide their letter no CGWB/MER/CGWA/2017/1014 dated 11.08.2017</p> <p>(Copy already submitted with Half Yearly EC Compliance report vide letter no NKSTPP/EMG/MoEF&CC/EC/06/02 dated 05.01.2018)</p> <p>Status of Construction of Rain Water Harvesting</p> <p>(i) Enabling Township: work under progress.</p> <p>(ii) Main Plant Area: Construction of identified buildings is in progress and rain water harvesting work will be taken up after completion of buildings. However, construction of recharge pits is under progress near owner's construction office, Fire station building, switch yard control building.</p>
xv.	Regular monitoring of water quality including heavy metals shall be undertaken around the ash dyke and the project area to ascertain that there is no leaching of contaminants from ash disposal area.	Shall be complied during operation stage.
xvi.	Noise level shall be limited to 75 Leq. Necessary personal protection equipment like ear plug etc. shall be provided to the persons working in the area of generator and other high noise area.	<p>Regular maintenance of equipment shall be undertaken to maintain the designed noise level of 75 Leq.</p> <p>Personal protective equipment shall be provided to all persons working in the area of generator and other high noise areas during the operation stage.</p>
xvii.	Greenbelt of 100 m width shall be developed around the plant boundary covering an area of 87 Ha.	<p>Greenbelt shall be developed around the plant boundary as mentioned in General Layout Plan.</p> <p>1. NKSTPP has already planted 22500 no. of trees and also donated 2500 no. fruit bearing trees among project affected villages.</p> <p>2. A contract for 30000 tree plantation already awarded (Some trees already planted).</p>

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Sl. No.	Stipulations of conditions	Status (As on 31.03.2020)
		3. A letter from Range forest officer, Tandwa received for plantation of 1,33,280 no. trees in 80 Ha. area earmarked by Forest Department. Modalities for payment yet to be confirmed by the Range Forest Officer due to lockdown for COVID 19
xviii.	Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. 6 monthly monitoring report shall be submitted to the ministry.	Regular monitoring of air quality shall be carried out in and around the power plant and records shall be maintained during operation stage. 6 monthly monitoring report shall be submitted to the ministry during operation stage.
xix	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.	For controlling fugitive dust, regular sprinkling of water is being done in project areas.
xx.	All other mitigate measures shall be taken as enumerated in chapter V of the EIA report.	Being complied.
xxi.	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copy of clearance letter is available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in	Complied.
xxii.	A separate environment-monitoring cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate environment monitoring cell known as Environmental Management Group, (EMG) is already setup and functional at NKSTPP sites for implementation of the stipulated environmental safeguards.
xxiii	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the Ministry / Regional Office / CPCB / SPCB.	Being complied. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards is being submitted regularly to the following. (i) MOEF&CC - Regional officer, of MOEF&CC, Ranchi,

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Sl. No.	Stipulations of conditions	Status (As on 31.03.2020)
		<p>(ii) CPCB- Regional Director, CPCB, Kolkata and</p> <p>(iii) JSPCB - Member Secretary, Jharkhand State Pollution Control Board Ranchi.</p> <p>(Last half yearly report already submitted to the above vide through letter no NKSTPP/EMG/MoEF&CC/EC/02 dated 10.01.2020.</p>
xxiv.	Regional office of the Ministry of Environment & Forest located at Bhubaneswar will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment report and management plan shall be forwarded to the regional office.	Complied. Details already submitted to Regional office of MoEF, Bhubaneswar vide our letter no CC:ESE:4100:2005:GEN:02B, dated 7 th Feb, 2005.
xxv.	Separate funds shall be allocated for implementation of environmental protection measures. Break-up of the funds for various activities shall be submitted to MoEF. This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for any other purposes and year-wise expenditure shall be reported to the MoEF.	<p>Being complied.</p> <p>An amount of Rs. 1125.34 Crores have been earmarked in the Feasibility Report for North Karanpura STPP towards environmental protection measures. (<i>Break-up of the funds for various activities is already submitted with Half Yearly EC compliance report vide our letter no NKSTPP/EMG/MoEF&CC/ EC/04/ 271 dated 25.04.2016</i>).</p> <p>Total expenditure up to March 2020 is Rs. 7524.50 Millions.</p> <p>In addition to above, An amount of Rs 11.11 Crores (Rs.2.93 Crores towards Compensatory Afforestation and Rs. 8.18 Crores towards Cost of Net Present Value) have been paid by NKSTPP to Jharkhand State Forest Department for diversion of forest land to NKSTPP, as on 31st March 2016.</p>
xxvi.	Full cooperation shall be extended to the scientists / officers from the Ministry / Regional offices of the ministry at Bhubaneswar / CPCB / SPCB for monitoring the compliance of environmental norms and safeguards.	Full cooperation shall be extended to the scientists / officers from the Ministry / Regional offices of the ministry at Ranchi / the CPCB / the SPCB during monitoring of the project.

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B. Compliance Report for Additional Conditions Stipulated vide MOEF Letter No. J-13011/26/89-IA-II(T) dated 19.02.2014

Date: 09th June, 2020

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
xxvii.	Vision document specifying prospective plan for the site shall be formulated and submitted to Regional Office of the Ministry within six months .	Vision document has been submitted with the compliance report submitted on 23.04.2014.
xxviii.	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the ministry.	Rooftop solar PV (1500 KWp) of estimated capacity: 1. 1100KWp (approx.) has been envisaged inside NKSTPP premises on rooftop of following buildings: 1.Main service building 2.Service building 3.O&M workshop 4.Ash water pump housing 5.Permanent store building 6.Compressor house building 7.Fire station building 8.Fire water PH building 9.Switchyard control building. (B) Balance 400 KWp rooftop solar PV will be initiated in the matching time schedule of balance building's readiness.
xxix.	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 48% at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Shall be complied during operation stage.
xxx.	A long term study on radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Shall be complied during operation stage.

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Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
xxxi.	Mercury emissions from stack shall also be monitored on periodic basis.	Shall be complied during operation stage.
xxxii.	High Efficiency Electrostatic Precipitation (ESPs) shall be installed to ensure that particulate emission from the proposed plant does not exceed 50mg/Nm ³ .	<p>Shall be complied.</p> <p>Installation of High Efficiency Electrostatic Precipitation (ESPs) is in under progress and details are as below.</p> <p>(i). Unit-I - 9933 MT/11283 MT (% progress: 88%)</p> <p>(ii) Unit-II – 9791 MT/11283 MT (% progress: 86.8%)</p> <p>(iii). Unit III - 5928 MT/11283 MT (% progress: 52.5%)</p> <p>All ESPs are designed to meet prevailing emission standard.</p>
xxxiii.	Provision for installation of FGD shall be provided for future use.	<p>Space has been kept in the lay out for installation of FGD plant.</p> <p>FGD package awarded to M/s BHEL. Agency to mobilise shortly for implementing FGD system.</p>
Xxxiv	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	<p>Adequate dust extraction system shall be provided in coal handling and ash handling points, transfer areas and other vulnerable dusty areas.</p> <p>Dust extraction system to be implemented under Coal Handling Package is yet to start, shall be made ready in tandem with overall system readiness.</p>
xxxv.	COC of at least 5.0 shall be adopted. the water requirement shall not exceed 5,835 m ³ /h.	<p>NTPC proposes to adopt of Air Cooled Condenser System for the project instead of wet cooling system. This will reduce the overall water requirement from 10,100 m³/hr to 2,180 m³/hr.</p> <p>An amendment in Environmental Clearance is received from MOEF in this regard vide their letter no J-13011/26/89-IA.II(T) dated 31.10.2014 (Copy already submitted)</p>

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Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
		with Half Yearly EC compliance report dated 08.04.2015). Hence this condition no (xxxv) is deleted now.
xxxvi.	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.	No water bodies shall be disturbed due to activities associated with the setting up/operation of the power plant.
xxxvii	Hydrogeology of the area shall be reviewed annually from an institute/organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case any deterioration is observed specific mitigation measures shall be undertaken and reports/data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	Shall be complied during operation stage. Presently a proposal is under tendering process.
xxxviii	Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Shall be complied during operation stage.
xxxix	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/CPCB.	Shall be complied during operation stage. All waste water generated from the plants shall be treated before discharge to comply limits prescribed by the CPCB/ SPCB. Waste water will be treated and recycled / reused within the plant. Construction work of ETP and STP are started at site in main plant area. STP at enabling township is completed and under observation. Work of Plant STP under progress.
xl.	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improve.	Being complied.

Sumar
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Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
xli.	Utilization of 100% fly ash generated shall be made from 4th year of operation. Status of implementation of the Fly Ash Utilization Notification and its amendments shall be reported in the Regional Office of the Ministry from time to time.	Shall be complied during operation stage.
xlii.	Fly Ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no Leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	Shall be complied during operation stage.
xliii.	Fly Ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Shall be complied during operation stage.
xliv.	Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no Leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Shall be complied. North Karanpura STPP envisages High Concentration Slurry Disposal System (HCSD) for Ash Disposal. In HCSD system, the disposed layers of ash is solidified and there is no free water for overflow and leachate or no risk of ash dyke getting breached.
xlvi.	Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat.	Shall be complied during operation stage.
xlii.	Green Belt consisting of three tiers of plantations of native species around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be	Space for Green Belt has been earmarked in General Layout Plan. Native / Local plants species will be planted and density of 2500/ha shall

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9/6/2020

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
	submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80%.	<p>be maintained with survival rate of not less than 80%.</p> <p>1. NKSTPP has already planted 22500 no. of trees and also donated 2500 no. fruit bearing trees among project affected villages.</p> <p>2. A contract of 30000 tree plantation is in progress (Some trees already planted).</p> <p>3. A letter from Range forest officer, Tandwa received for plantation of 133280 no. trees in 80 Ha. area earmarked by Forest Department. Modalities for payment yet to be cleared by the Range forest officer due to lockdown for COVID 19.</p>
xlvi.	A common green endowment fund shall be created and the interest earned out of it shall be used for the development and management of green cover of the area.	Shall be complied.
xlvi.	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	<p>Being complied.</p> <p>Project proponent adequately contributing in the development of the neighbouring villages through Community Development activities like Infrastructure development in Village, Schools, Health check-up to villagers, Education and Training to student, Solar lighting in village, Provision of drinking water to villagers etc</p> <p>Special package with mplementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.</p> <p>Existing water supply system has been strengthen.</p>

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Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
		<p>Supply of potable drinking water by water tanker in each Project Affected Villages.</p> <p>Water bottle have been provided to school students.</p> <p>Provision of Solar water system at Project Affected Villages is being done.</p>
xlix.	A minimum amount of 0.4 % of the project cost shall be earmarked as one time capital cost for activities to be taken up under CSR during construction phase of the project. Subsequently, a recurring expenditure of 1/5 th of the capital cost of the CSR budget shall be earmarked for CSR activities per annum till life of the plant. Social audit by a reputed University or an Institute shall be carried out periodically as per CSR guidelines of Govt. of India and details to be submitted to MOEF besides putting it on Company's website	<p>Being complied.</p> <p>Provision of Rs 48 Crs (0.4 % of project cost) has been kept for Community Development activities broadly related to Health, Education, Drinking water, Welfare, Infrastructure, etc. Rs 4.09 Cr spent during this period and total cumulative amount of Rs 25.77 Cr has been spent till March 2020.</p> <p>Social audit: Award of contract for first social audit is under progress.</p>
l.	CSR schemes identified based on need based assessment shall be implemented in consultation with the village Panchayat and District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.	<p>Being complied.</p> <p>The community development activities are being implemented in consultation with stakeholders. A provision of Rs 48 Cr has been kept for Community Development activities broadly related to Health-Medical Camp, Education-Merit award, sponsorship of student, furniture, lab items, books to Vananchal collage, Welfare-Blanket, stationeries, Financial assistance for cultural program, cleaning & renovation of chhath Talab, sports & culture, Infrastructure development-Restoration of Drinking water facilities, construction of road, drain, provision of electric transformer, DG set and training-physically handicapped to PAP women on domestic solar electrification etc.</p>

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Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
		The said activities would also include provisions to provide training to local employable youth and income generating programmes.
li.	An Environmental Cell comprising of at least one expert in environmental science/engineering, occupational health and social scientist, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the head of the cell shall directly report to the head of the organization who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	An Environmental cell [known as Environmental Management Group(EMG)] is already created at project site and functional.
lii.	The treated effluents conforming to the prescribed standards only shall be re-circulated and re-used within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	<p>❖ Shall be complied during operation stage.</p> <p>❖ Arrangements shall be made that effluents and storm water do not get mixed.</p>
liii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	<p>Shall be complied.</p> <p>Provision has been made for sewage treatment plan. The treated sewage shall be used for raising the greenbelt in plant as well as township area.</p> <p>(i) Construction of a Sewage Treatment Plan having capacity of 300 KLD is in operation at enabling township area.</p>
liv.	Adequate safety measures shall be provided in the plant area to check / minimise spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Shall be complied during operation stage.
lv.	Storage Facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with Department of explosives, Nagpur. Disaster Management Plan shall be prepared to meet any eventuality	Consultation has been made by NKSTPP vide its letter no- NA dated 11.05.2017 to The Chief Controller of Explosives, Nagpur for drawing approval of Storage facilities for

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Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
	in case of an accident taking place due to storage of oil.	<p>auxiliary fuel such as LDO/HFO/LSHS.</p> <p>Drawing has been approved by The Chief controller of Explosives, Nagpur vide letter no A/P/HQ/JH/15/1163(P410148) date 23/10/2017 (Copy already submitted with Half Yearly EC compliance report vide our letter no NKSTPP/EMG/MOEF&CC/EC/07 dated 18.05.2018.</p> <p>Disaster Management Plan is prepared and available at site.</p>
lvi.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	<p>Complied.</p> <p>First Aid and sanitation arrangements has been made available to the drivers and contract workers at project site.</p>
lvii	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in high noise area, requisite personal protective equipment like earplugs/ ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy / less noisy areas.	Shall be complied during operation stage.
lviii.	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} and PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Shall be complied during operation stage.
lix.	Provision shall be made for the housing of construction labour (as applicable) within the	Complied

Ramona
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Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31/03/2020
	site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Provision has been made available for the housing of construction labour within the site with all necessary infrastructure i.e. Toilet, safe drinking water with RO Plant, Medical check-up facilities.
ix.	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB. The criteria pollutant levels namely; SPM, RSPM (PM _{2.5} and PM ₁₀), SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	It Shall be complied during Operation Stage.
ixi.	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Shall be complied during Operation Stage.
ixii.	The project authorities shall inform the Regional Office as well as the Ministry regarding date of Financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of the plant.	Investment approval for the project has been accorded by the Board of Directors of NTPC on 28.01.2014. The award for main plant has been placed on 28.02.2014. Construction work is under progress at project site and date of Commissioning of Units are as bellow. Unit-I – April,2021 Unit-II – October'2021 Unit-III – April'2022

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Annexure-I

Compliance report for condition stipulated vide through Jharkhand State Pollution Control Board letter no PC/NOC/HBG/176/14/D-12318 dated 11.01.2014 and old NOC of BSPCB vide letter NO B- 8160 dated 31.12.2001.

Date: 09th June, 2020

Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-1860 dated 31.12.2001	Status (As on 31.03.2020)
i.	The unit Shall obtained consent to operate under sections 25 of the Water Act, 1974 and section 21 of the Air Act, 1981, prior to commissioning of the plant from pollution control board.	It shall be complied prior to commissioning of the plant.
ii.	The effluent (Domestic & Trade) and emission, if any shall conform to the standard prescribed by the board.	It shall be complied during operation of plant.
iii.	Minimum height of the proposed stacks (one single flue steel lined RCC stacks & one twin flue steel lined RCC stack) shall be 275 meters each with port hole and platform as per norms of the central pollution control board.	<p>Minimum height of the stacks (Three stacks single flue) shall be 275 meters.</p> <p>Online Continuous Stack Emission Monitoring System (CSEMS) shall be provided in stacks.</p> <p>Construction of stacks is in under progress and details are as bellow.</p> <p>Stack of Unit-I, II & III - Shell casting of all the three Chimneys completed</p>
iv.	High efficiency ESP shall be provided to achieve standard prescribed by the board.	<p>Installation of High Efficiency Electrostatic Precipitation (ESPs) is in under progress and details are as below.</p> <p>(i). Unit-I - 9933 MT/11283 MT (% progress: 88.0%)</p> <p>(ii) Unit-II - 9791 MT/11283 MT (% progress: 86.8%)</p> <p>(iii). Unit III - 5928 MT/11283 MT (% progress: 52.5%)</p> <p>Standard prescribed by the board shall be achieved during the operation of the plant.</p>

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Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-1860 dated 31.12.2001	Status (As on 31.03.2020)
v	Effective measures shall be taken to control Fugitive dust pollution within plant premises and around Ash disposal area.	All effective measures shall be taken to control fugitive dust pollution within plant premises and around ash disposal area during the operation of the plant. However water spraying through tanker is being carried out on regular basis.
vi	Trade effluent from plant and domestic effluent from the captive colony shall be suitable stored and treated to the standards: treated effluent shall be recycled and reused to the maximum extent.	Trade effluent from plant and domestic effluent from the captive colony shall be suitable stored and treated in ETP and STP respectively to achieve the prescribed standards. Treated effluent shall be recycled and reused to the maximum extent. (i) Enabling Township: - Construction of Sewage treatment (STP) having capacity of 300 KLD is in operation. (ii) Main Plant Area: - Construction work of ETP and STP are under progress.
vii.	Analysis report of the raw and treated effluent shall be submitted to the board immediately after commissioning of the plant and thereafter monthly.	It shall be complied immediately after commissioning of the plant and thereafter on monthly basis during operation stage.
viii.	Ambient air quality report of the area (station as in EIA) shall be submitted to the board before and after commissioning of the plant along with the stack monitoring report monthly.	It shall be complied before and after commissioning of the plant and thereafter on monthly basis along with the stack monitoring report during the operation stage.
ix.	Unit shall submit detailed scheme for management of the ash. The scheme shall include measures taken for manufacturing ash bricks and utilization of ash within one year.	Detailed scheme for management of ash shall be submitted to the board during operation stage.
x.	Detailed EIA shall be submitted to the board within one year which should also include detailed hydrological scenario of surface	Complied Detail's already submitted to Regional office of MoEF, Bhubaneswar vide our

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Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-1860 dated 31.12.2001	Status (As on 31.03.2020)
	and subsurface water level, besides litho-section at plant and ash disposal area. In such hydrological study, correlation of the available water table at plant and ash disposal area shall be made and incorporated.	letter no CC:ESE:4100:2005:GEN:02B dated 7 th Feb ,2005.
xi.	The unit shall set up a modern laboratory for regular monitoring of the impact on land, air, underground and surface water. For this purpose, an area having 10 km radius from the plant zone of influence, shall be considered.	It shall be complied during operation stage.
xii.	The unit shall explore the feasibility of using washed coal and in this context CCL should be especially requested.	The unit shall explore the feasibility of using washed coal.
xiii.	The unit shall not commence its operation without the environmental clearance of MOEF, GOI.	Complied North Karanpura Super Thermal Power Project received its Enviromental Clearance from MoEF & CC, GOI vide through MoEF Letter No. J-13011/26/89-IA-II(T) dated 29.11.2004 and it is revalidated by MoEF & C vide through Letter No. J-13011/26/89-IA-II(T) dated 19.02.2014.
xiv.	Three tier plantations with a minimum 100 meters width shall be done all around the plant site and around the captive colony and maintained plantation shall also be done on the slope and abandoned ash disposal area. In order to neutralise the adverse impact on the captive colony physical barrier between the captive colony and the plant site shall be made.	Plantation shall be done in green belt development areas as per General Layout Plan in all around the plant and around the captive colony. Tree plantation shall be done in all technically feasible areas at project site. Greenbelt shall be developed around the plant boundary as mentioned in General Layout Plan. 1. NKSTPP has already planted 22500 no. of trees and also donated 2500 no. fruit

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Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-1860 dated 31.12.2001	Status (As on 31.03.2020)
		<p>bearing trees among project affected villages.</p> <p>2. A contract for 30000 tree plantation already awarded (Some trees already planted).</p> <p>3. A letter from Range forest officer, Tandwa received for plantation of 1,33,280 no. trees in 80 Ha. area earmarked by Forest Department. Modalities for payment yet to be confirmed by the Range Forest Officer due to lockdown for COVID 19.</p>
xv.	Suitable space will be provided for retrofitting the FGD system. The design and layout of steam generator and its auxiliaries would be such that a wet/dry FGD system can be installed.	<p>Suitable space is already provided in General layout Plan for retrofitting the FGD system.</p> <p>A provision has been incorporated in General layout plan for installation of FGD in North Karanpura STPP.</p> <p>FGD package awarded to M/s BHEL. Agency to mobilise shortly for implementing FGD system.</p>
xvi.	The unit shall fix permanent sampling stations up and down stream of effluent disposal points on Garhi River	It shall be complied during operation stage.

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