



एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)
(Formerly National Thermal Power Corporation Ltd.)

नबीनगर / Nabinagar

Ref:1086/NSTPS/ Env't, Mgt./12/2025/06/01

Date: 30.06.2025

To,
The Ministry of Environment, Forest & Climate Change
2nd Floor, Headquarter Jharkhand State Housing Board,
Harmu Chowk, Ranchi- 834002, Jharkhand
Email: ro.ranchi-mef@gov.in

Sub: Submission of Environment Condition Compliance Report up to March 2025 for NSTPP Nabinagar.

Ref: MOEF Clearance award letter no J-13012/127/2007-IA.II (T), dtd.28.02.2025.

Dear Sir,

With reference to the above, please find enclosed ECCR (Environment Condition Compliance Report) up to Mar-2025 of Nabinagar Super Thermal Power Project Stage-II (3X800 MW).

Yours Sincerely,

Brijendra Agrawal
(Brijendra Agrawal)
AGM(TS/EMG)
NSTPS, Nabinagar



नबीनगर / Nabinagar

NSTPP Nabinagar Stage- II (3x800 MW) EC Compliances

Specific EC Conditions for (Thermal Power Plants)

1. [A] Environmental Management

S. No	Conditions	EC Compliance Report as on 31.03.2025					
1. [A] Environmental Management							
1.1	Project proponent shall comply with all the directions passed by the Hon’ble National Green Tribunal vide its judgement dated 29/11/2024 in OA No. 976 of 2024 titled as Vijay Kumar Singh Urf Dablu Singh vs State of Bihar. Compliance status in this regard shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.	Compliance status of OA no. 976/2024 attached as Annexure -I					
1.2	Project proponent shall abide by all orders and judicial pronouncements, made from time to time by the Hon’ble National Green Tribunal in OA No. 327 of 2022 titled as Amaravati Fly Ash Bricks Manufacturers Association Vs Union of India & Ors.	Final hearing date for this NGT in OA no. 327/2022 is 16.07.2025. NSTPP abide by all order and judicial pronouncements, made from time to time by the Hon’ble National Green Tribunal in OA No. 327 of 2022 titled as Amaravati Fly Ash Bricks Manufacturers Association Vs Union of India & Ors.					
1.3	Project proponent shall adopt 100% utilization of ash generated as a result of the expansion project in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendment. Area for the additional ash pond proposed under the expansion project shall not exceed 110 Ha as committed.	NSTPP has planned to achieve 100% Ash Utilization from ash generated from Stage-II (3X800 MW) plant as per Ash utilization notification dated 31/12/2021 and its subsequent amendments. As Committed by NSTPP proposed Ash Pond area for expansion project shall not be exceed to 110 Ha.					
1.4	Project proponent shall comply with the following with respect to solar energy installation as committed. a. Within Project Site:		S.N o.	Cap acit y (M W)	Cost (Ru pees in CR)	Statu s of Propo sal	Target Completion

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पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7 इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110003
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S. No	Capacity (MW)	Cost (Rupees in CR)	Status of Proposal	Target Completion	
1.	0.58	2.86	Awarded	Mar' 2026	
2.	1.5	5.66	Under Tendering Stage with BOP Packages Stage-II	Award by March'2025	
Total	2.08	8.52			
b. Solar light under installation in nearby villages:					
S no	Villages Description of fitting	Description of fittings	Capacity	Status of Proposal	Target completion
1.	20 no's near by Villages	21 no's 8m high mast solar lights	2100 W	Under Award	Fy-25-26
2.	Nearby villages	20no's of street light	240W	Awarded	Fy-25-26

1.	0.58	2.86	Awarded Work is in progress	Mar' 2026
2.	1.5	5.66	Under Tendering Stage with BOP Packages Stage-II	Award by September 2025
Total	2.08	8.52		

S no	Villages Description of fitting	Description of fittings	Capacity	Status of Proposal	Target completion
1.	20 no's near by Villages	21 no's 8m high mast solar lights	2100 W	Under award	Fy-25-26

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		2.	Nearb y villag es	20no' s of street light	24 0 W	Wor k is in prog ress	Fy- 25-26	
1.5	In addition to the existing 4 Continuous Ambient Air Quality Monitoring Stations (CAAQMS), Project proponent shall install additional one continuous ambient air quality monitoring at suitable location within the project site in consultation with JSPCB as committed.	Additional 1 No's of AAQMS station at suitable location within project site in consultation with BSPCB will be installed.						
1.6	The water requirement for the proposed project is estimated as 72,000 KLD and the same shall be met from Indrapuri Barrage on Sone River. Air Cooled Condenser System shall be used in Nabinagar STPP Stage-II as committed.	As committed water requirement for the proposed project is estimated as 72,000 KLD will be followed. Air cooled condenser system will be installed in expansion project of NSTPP.						
1.7	Project proponent shall store harvested rainwater in the project boundary and utilize the same for plantation, recharging water in the pond and domestic utilization in colonies. A record shall be maintained of water collected through rainwater and its supply system. PP shall get the water audit done every year to optimize the water requirement.	NSTPP is planning to explore surface water storage / recharge facility. Same water shall be utilized for Plantation/ domestic needs. Proposal for study of surface water storage facility is already initiated. During implementation water meter will be installed for maintenance of records.						
1.8	Project proponent shall implement the protective measure proposed in EMP in a time-bound manner. The budget earmarked for the same is Rs. 2745.99 Crores (Capital) and Rs. 61.42 crores (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.	NSTPP Nabinagar shall adhere to implement the protective measure proposed in EMP in a time-bound manner. At present only BTG project has been awarded.						
1.9	Project proponent shall assess the carbon footprint of the project and develop carbon	Carbon footprint assessment of project and carbon sequestration technologies is under						

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	sink/carbon sequestration resources using modern technologies. The implementation report shall be submitted to the concerned Regional Office of the MoEF&CC.	Engineering Stage. After finalization of technology, implementation plan shall be intimated to regional office of the MOEF&CC.
1.10	Project proponent shall install and commission the FGD for the existing 3x660 MW & and proposed 3x800 MW unit as per the Ministry's notification dated 05/09/2022 and its subsequent amendments.	NSTPP Stage-I(3X660MW) FGD status: FGD contract awarded to M/s BHEL in 14.06.2019. Work is under progress. 94% civil works completed Mechanical Erection works under progress. Target completion Unit#1: Mar'26 Unit#2: June'26 Unit#3: Dec'26 As per MOEF&CC Gazette Notification dated 05.09.2022 and amended 30.12.2024 Nabinagar Falls under the 'C' Category . The time line for compliance with the new emission norms will be applicable after 31.12.2029. NSTPP Nabinagar has planned for installation of FGD in Proposed expansion project.
1.11	Ash pond area and fly ash utilization shall be as per Fly Ash Notification issued by Ministry/CPCB from time to time.	NSTPP adhered to all the Ash notifications, Ash pond area and fly ash utilization issued by ministry /CPCB from time to time.
1.12	Project proponent shall ensure that pipelines carrying the fly ash and effluent shall be inspected regularly for any leakages.	NSTPP ensures all the pipelines carrying fly ash shall be inspected regularly for any leakages and attended the same within stipulated time.
1.13	Effluent of 2300 KLD will be treated through Effluent Treatment Plant. As committed by the Project proponent, Zero liquid discharge shall be adopted for the existing and the proposed plant. No wastewater will be discharged outside the project site.	ETP of 2300 KLD will be installed in proposed Stage-II of NSTPP. ZLD system in existing plant has already been installed and operational and No waste water is being discharged outside plant premises.
1.14	PP shall ensure that diesel operated vehicles will be switched over to E-Vehicles/CNG/LNG vehicles in a time bound manner, replace the	NSTPP is exploring to use E-Vehicles/CNG/LNG vehicles.

B. Aggarwal

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	passenger vehicles to E-vehicle in phased manner. Further, for local movement of officials Contract of Vehicles deployment shall be awarded to project affected people and all efforts for adopting heavy E-vehicles/LNG/CNG like Bulkiers for ash transportation for short distance subject to availability of such E-vehicle/facility and requisite adequate charging infrastructure in the surrounding area shall be provided. PP shall submit the action taken report to concerned RO with amount spent, photographs (before & after), number of e-vehicles deployed etc. in six monthly compliance report.	Presently, NTPC is using 10 No.s of Battery operated vehicles for material handling.
1.15	PP shall implement the concurrent plantation plan in a time bound manner. The gap plantation shall be completed in the identified 98.38 Ha land area within Plant, residential and administrative areas and around Further, three tier green belt shall be developed in an area of 330.42 ha in a time 6 years from the date of grant of EC in consultation with Forest department/ Gram Panchayat/District Administration all along the periphery of the project and coal transportation route. Thus, total of 428.80 ha area (35.65 % of total project area) will be developed as greenbelt. The remaining 4.35% (35.65%-40%) of green belt development will be done in nearby area as land is not available within the plant, with the help of State Forest Dept. PP shall also adopt Miyawaki plantation technique and plantation with minimum 5m height of the saplings in upcoming monsoon season. The budget earmarked for the green belt, plantation inside and outside the plant area, along the transportation route and Miyawaki Plantation area shall be kept in a separate account and audited annually. PP should annually submit the audited statement of expenditure along with proof of activities viz. photographs (before & after with	In-line with green belt development plan, 45 Ha of Green belt is planned to be developed in Ash dyke area through State Forest Department, Govt. of Bihar in FY: 2025-26. Presently the proposal is under award approval stage. Further Miyawaki plantation is under development in 2 ha land being executed by State Forest Department, Govt. of Bihar NSTPP will Adhere to all compliances regarding Greenbelt development in plant premises and outside plant premises. Compliances in this regard will be submitted to MoEF &CC during subsequent six monthly compliances.

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	geolocation date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC and on PARIVESH Portal as the case may be for the activities carried out during previous year.	
1.16	Project proponent shall carry out community plantation with incentive scheme by distributing 50,000 saplings per year for a period of five years. Further, PP shall provide basic facilities to the nearby schools such as drinking water, sanitation facilities and shall also develop green belt around the nearby schools. Regular watering of saplings planted in the nearby schools will be carried out by Project Proponent to mitigate the air and noise pollution. Further, PP shall organize quarterly awareness programs for school students to educate them on the significance and preservation of trees.	Taken up with DFO Aurangabad for providing 50,000 saplings for Community plantation. Plantation likely to be completed in the financial year 2025-26. Drinking water facilities and sanitation facilities are already being developed by NSTPP nabinagar in nearby schools/villages. 106 No's of Bore wells are installed in the Nearby areas. Quarterly awareness programs in schools will be done.
1.17	PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health as committed. Compliance status in this regard shall be submitted along with the six-monthly compliance to the concerned Regional Office of MoEF &CC.	NSTPP has constructed and handed over 1 no's of PHC at Ankhora in the month of April -2025. Further NSTPP has planned to strengthen the existing PHC & CHC around the plant area in coordination with District Administration for better public health Infrastructure .
1.18	Wildlife conservation plan as approved by the competent authority shall be implemented. Additional, budget shall be added in the plan, in case additional measures suggested by state wildlife department. The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF &CC within a time frame of three months from the date of grant of EC and the budget approved by the concerned	Wildlife conservation plan has been prepared and submitted to CWLW, Patna Bihar for approval. After Approval required amount shall be deposited to government account.

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	authority shall be deposited in government account.	
1.19	Project proponent shall install LED display of air quality (Continuous AAQ monitoring) and stack emission (Continuous emission monitoring) at prominent locations preferably outside the plant's main entrance for public viewing and in administrative complex and maintenance of devices shall be done regularly.	LED display of air quality (Continuous AAQ monitoring) and stack emission (Continuous emission monitoring) will be installed subsequent to commissioning of Stage-II Units.
1.20	Project proponent shall carry out Water Sprinkling on roads inside the plant area/ administrative/ residential areas and outside the plant area at least for 2 KM on a regular basis to control the air pollution. A logbook shall be maintained for the activity and be in six-monthly compliance report.	Water Sprinkling on roads inside the plant area/ administrative/ residential areas and outside the plant area being done on regular basis.
1.21	PP shall deploy vacuum based vehicle for everyday cleaning of the road in and around plant site at least for 5 KM.	Proposal for vacuum Based vehicle for road cleaning in and around plant site is under process. NSTPP will ensure compliances of the same.
1.22	Environment Audit of plant shall be done annually and report shall be submitted to Regional office of the Ministry.	Noted.
1.23	A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated leachate shall be monitored once in quarter and records shall be maintained.	Noted.

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1.24	Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.	Noted.
1.25	Monitoring of surface water quality and Ground Water quality shall also be regularly conducted in and around the project site and records to be maintained. 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 also be undertaken and results/findings submitted along with half yearly monitoring report. The monitored data shall be submitted regularly. on PARIVESH portal as part of Half Yearly compliance report.	Surface and ground water quality is being monitored in around of plant premises on regular basis. Surface water and Ground water quality reports attached as annexure-II. Monitoring data being submitted regularly on parivesh portal.
1.26	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Noted.
1.27	PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report submitted by PP.	Plastic waste Generated from plant and township area are stored separately in isolated place and same being disposed through nearest co-processing units of NSTPP (M/s Dalmia cement Factory) on regular basis. Awareness programs are done in NSTPP township, nearby schools and nearby areas on ban of single use plastic. Photos are attached herewith as annexure-III

R. Agrawal

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1.28	PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.	'Ek Ped Maa Ke Naam' plantation drive is taken up in the NSTPP plant premises on regular basis. Submission of report will be ensured.
2.1	A vision document comprising prospective plan for implementation of various CER activities, plantation programme outside the project cover area, rejuvenation and conservation of water bodies within 5 km radius of the project cover area shall be prepared and submitted to the Regional Office of the Ministry within 6 months. Implementation status of the same shall be reported to the Regional Office in 6 monthly compliance report.	NSTPP has prepared a vision document comprising prospective plan for implementation of various CER activities, plantation programme outside the project cover area, rejuvenation and conservation of water bodies within 5 km radius of the project cover area and attached as annexure -IV
2.2	Epidemiological Study among population within 5 km radius of project cover area shall be carried out on regular interval (Once in two year) through independent agency. Necessary measures shall be taken as per findings of study in consultation with district administration. Action taken report shall be submitted to the Regional Office of the Ministry.	Noted.
2.3	The budget proposed for PH is Rs. 73.25 Crores. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the following action plan to address the issues raised during public hearing within a time frame of 3 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report.	NSTPP has adhere to all the conditions of Public hearing and comply the same within stipulated time frame.

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2.4	The establishment of a robust public grievance redressal mechanism to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues shall be developed. A Senior Officer shall review the functioning of the mechanism twice in a month.	Robust public grievance redressal mechanism is already implemented in NSTPP to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues. Senior Officer review being done twice in a month.
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3. [C] Miscellaneous

S. No	EC Conditions	
3.1	An Environmental Cell headed by the Environment Manger with postgraduate qualification in environmental science/environmental engineering, shall be created. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	Environment Management Group (EMG) is already functional at site and reporting to Head of Project.
3.2	Consent for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Application for CTE (Consent to Establishment) has already applied in BSPCB portal. Site visit by BSPCB officials done.
3.3	All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.	All Necessary clearance has already been obtained from concerned authorities.
3.4	A sub-Committee of the EAC shall visit the site post EC to recommend any further mitigation measures.	Sub Committee of EAC visit is awaited.

Standard EC Conditions for (Thermal Power Plants)

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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-110 003
कॉरपोरेट आइडेंटिफिकेशन नम्बर / Corporate Identification Number : L40101DL1975GOI007966 वेबसाइट / website:
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1. Statutory Compliance

S. No	EC Conditions	EC Compliance Report as on 31.03.2025
1.1	Emission Standards for Thermal Power Plants as per Ministry's Notification S.O. 3305(E) dated 7.12.2015, G.S.R.593(E) dated 28.6.2018 and as amended from time to time shall be complied	Noted.
1.2	Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste.	Noted.
1.3	MoEF&CC Notifications on Ash Utilization S.O. 5481 (E) dated 31/12/2021 as amended from time to time shall be complied.	Adherence to all Ash notifications shall be done.
1.4	MoEF&CC Notifications on Water Consumption vide Notification No. S.O. 3305 (E) dated 07.12.2015 read with G.S.R 593 (E) dated 28.6.2018 as amended from time to time shall be complied.	Noted.
1.5	The recommendation from Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.	Not applicable
1.6	No Objection Certificate from Ministry of Civil Aviation be obtained for installation of requisite chimney height and its siting criteria for height clearance.	NOC from Ministry of civil aviation is already obtained for installation of requisite chimney height. Attached as annexure-V

2. Ash Content/mode Of Transportation Of Coal

S. No	EC Conditions	
2.1	MoEF&CC Notification issued vide S.O. 1561 (E) dated 21.05.2020 and as amended from time to time shall be complied which inter-alia include use of coal by Thermal Power Plants, without stipulations as regards ash content or distance, shall be permitted subject to compliance of conditions prescribed under (1) Setting Up Technology Solution for emission	Noted.

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norms, (2) Management of Ash Ponds and (3) Transportation.	
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3. Air Quality Monitoring And Management

3.1	Flue Gas Desulphurisation System shall be installed based on Lime/Ammonia dosing to capture Sulphur in the flue gases to meet the SO ₂ emissions standard as per G.S.R. 243 (E) dated 31.03.2021 read with G.S.R. 682 (E) dated 05.09.2022 and amended from time to time.	Noted.
3.2	Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SNCR) system or Low NOX Burners with Over Fire Air (OFA) system shall be installed to achieve NOX emission standard of 100 mg/Nm ³ .	Noted.
3.3	High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm ³ .	Noted.
3.4	Stacks of prescribed height 275 m shall be provided with continuous online monitoring instruments for SO ₂ , Nox and Particulate Matter as per extant rules.	Noted.
3.5	Exit velocity of flue gases shall not be less than 20-25 m/s. Mercury emissions from stack shall also be monitored periodically.	Noted.
3.6	Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM ₁₀ , PM _{2.5} , SO ₂ , NOX within the plant area at least at one location. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually	Noted.
3.7	Adequate dust extraction/suppression system shall be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.	Noted.
3.8	Appropriate Air Pollution Control measures (DEs/DSs) be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.	Noted.

4. Noise Pollution And Its Control Measures

Approved

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S. No	EC Conditions	EC Compliance Report as on 31.03.2025
4.1	The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.	Noted.
4.2	Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.	Noted.
4.3	Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non- noisy/ less noisy areas.	Noted.

5. Human Health Environment

S. No	EC Conditions	EC Compliance Report as on 31.03.2025
5.1	Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account of chronic exposure to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.	Noted.
5.2	Impact of operation of power plant on agricultural crops, large water bodies (as applicable) once in two years by engaging an institute of repute. The study shall also include impact due to heavy metals associated with emission from power plant.	Study shall be conducted in near future.

6. Water Quality Monitoring And Management

S. No	EC Conditions	EC Compliance Report as on 31.03.2025
6.1	Induced/Natural draft closed cycle wet cooling system including cooling towers shall be set up with minimum Cycles of Concentration (COC) of 5.0 or above for power plants using fresh water to achieve specific water consumption of 3.0 m ³ /MWhr.	Air cooled condenser will be installed in the place of Induced draft cooling tower. Water consumption will be much lower than the conventional IDCT system.
6.2	In case of the water withdrawal from river, a minimum flow 15% of the average flow of 120 consecutive leanest days should be maintained for environmental flow whichever is higher, to be released during the lean season after water withdrawal for proposed power plant.	Noted.

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6.3	Records pertaining to measurements of daily water withdrawal and river flows (obtained from Irrigation Department/Water Resources Department) immediately upstream and downstream of withdrawal site shall be maintained.	Noted.
6.4	Regular (at least once in six months) monitoring of groundwater quality in and around the ash pond area including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.	Noted.
6.5	The treated effluents emanating from the different processes such as DM plant, boiler blow down, ash pond/dyke, sewage, etc. conforming to the prescribed standards shall be re-circulated and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management	Noted.
6.6	Hot water dispensed from the condenser should be adequately cooled to ensure the temperature of the released surface water is not more than 5 degrees Celsius above the temperature of the intake water.	Shall be Adhered.
6.7	Wastewater generation of 2300 KLD from various sources (viz. cooling tower blowdown, boiler blow down, wastewater from ash handling, etc) shall be treated to meet the standards of pH: 6.5-8.5; Total Suspended Solids: 100 mg/l; Oil & Grease: 20 mg/l; Copper: 1 mg/l; Iron: 1 mg/l; Free Chlorine: 0.5; Zinc: 1.0 mg/l; Total Chromium: 0.2 mg/l; Phosphate: 5.0 mg/l;	Shall be Adhered.
6.8	Sewage generation of 100 KLD will be treated by setting up Sewage Treatment plant to maintain the treated sewage characteristics of pH: 6.5-9.0; Bio-Chemical Oxygen Demand (BOD): 30 mg/l; Total Suspended Solids: 100 mg/l; Fecal Coliforms (Most Probable Number): <1000 per 100 ml.	Noted.

7. Risk Mitigation And Disaster Management

S. No	EC Conditions	EC Compliance Report as on 31.03.2025
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7.1	Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.	Noted
7.2	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made as per the extant rules in the plant area in accordance with the directives of Petroleum & Explosives Safety Organization (PESO). Sulphur Content in the liquid fuel should not exceed 0.5%.	Noted.
7.3	Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Noted, shall be followed.
7.4	Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.	Noted, shall be followed.
7.5	Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.	Noted, shall be followed

8. Green Belt And Biodiversity Conservation

S. No	EC Conditions	EC Compliance Report as on 31.03.2025
8.1	Green belt shall be developed in an area of 40% of the total project with indigenous native tree species in accordance with CPCB guidelines. The green belt shall inter-alia cover an entire periphery of the plant.	Noted and shall be followed.
8.2	In-situ/ex-situ Conservation Plan for the conservation of flora and fauna should be prepared and implemented.	Noted and shall be followed.

9. Waste Management

S. No	EC Conditions	
9.1	Solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.	Noted

B. Aggarwal

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9.2	Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for any substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.	Noted
9.3	Ash pond shall be lined with impervious liner as per the soil conditions. Adequate dam/dyke safety measures shall also be implemented to protect the ash dyke from getting breached.	Shall be Adhered.
9.4	Fly ash shall be collected in dry form and ash generated shall be used in phased manner as per provisions of the Notification on Fly Ash Utilization issued by the Ministry S.O. 5481 dated 31.12.2021, S.O.6169 (E) dated 30.12.2021, S.O.05 (E) dated 01.01.2024 and amendment thereto.	Noted, shall be Adhered.
9.5	Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry/Medium Concentration Slurry/Lean Concentration Slurry method. Ash water recycling system shall be set up to recover supernatant water.	Noted, shall be Adhered.

10. Monitoring Of Compliance

S. No	EC Conditions	EC Compliance Report as on 31.03.2025
10.1	Environmental Audit of the project be taken up by the third party for preparation of Environmental Statement as per Form-V & Conditions stipulated in the EC and report be submitted to the Ministry.	Noted.
10.2	Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable.	Noted.
10.3	Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.	Noted.
10.4	Energy and Water Audit shall be conducted at least once in two years and recommendations arising out of the Report should be followed. A report in this regard shall be submitted to Ministry's Regional Office.	Noted and shall be implemented.

Agreement

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<p>10.5 The project proponent shall (Post-EC Monitoring):</p> <p>a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government; b. upload the clearance letter on the web site of the company as a part of information to the general public.</p> <p>c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://parviesh.nic.in.</p> <p>d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;</p> <p>e. monitor the criteria pollutants level namely; PM (PM10& PM2.5 in case of ambient AAQ), SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;</p> <p>f. submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;</p> <p>g. submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the</p>	<p>a) Copy of EC letter has been sent to local bodies and Government offices. Attached as annexure-VI</p> <p>b) EC Letter has been attached in company website vide https://ntpc.co.in/about-us/corporate-functions/environment/environment-policy-management</p> <p>c) Public Information has been given to through local papers same as attached as annexure -VII</p> <p>d) Noted and shall be adhered.</p> <p>e) Noted and shall be adhered.</p> <p>f) Being complied.</p> <p>g) Noted and shall be adhered</p> <p>h) Approval from NTPC Board has been accorded on 25.11.2024.</p>
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Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company; h. Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.	
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11. Corporate Environmental Responsibility (CER) Activities

S. No	EC Conditions	EC Compliance Report as on 31.03.2025
11.1	CER activities will be carried out as per Ministry's OM F.No.22- 65/2017- IA.III dated 30 th September, 2020 and 22-65/2017- IA.III dated 25.02.2021 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed scheduled of implementation with appropriate budgeting. Statement on the commitments (activity-wise) made during public hearing to facilitate the discussion on the CER in compliance of the shall be submitted.	Detailed budgeting being done and shall be implemented in time bound manner.

Agm
30/06/25
AGM (TS & EMG)

Behera
30/06/2025
(L.K. Behera)
ED & Head of Project
Nabinagar Super Thermal Power Project

एल. के. बेहेरा / L.K. BEHERA
कार्यकारी निदेशक / Executive Director
नबीनगर सुपर थर्मल पावर प्रोजेक्ट
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