



नबीनगर / Nabinagar

Ref:1086/NSTPS/ Env't, Mgt./12/2024/01

Date: 30.12.2024

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

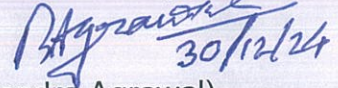
Sub: Submission of Environment Condition Compliance Report for the period from Apr-2024 to Sep-2024 for NSTPS Nabinagar.

Ref: MOEF Clearance award letter no J-13012/127/2007/IA.II (T), dtd.27.12.2010.

Dear Sir,

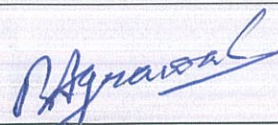
With reference to the above, please find enclosed ECCR (Environment Condition Compliance Report) for the period from Apr-2024 to Sep-2024 of Nabinagar Super Thermal Power Station (3X660MW).

Yours Sincerely,


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

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S.N.	CONDITIONS	EC Compliance Report as on 30.09.2024
Specific Conditions		
SC-01	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Vision document submitted with 1 st ECCR submitted on 27.05.2014.(Attached as Annexure-A)
SC-02	Land requirement shall be restricted to 1500 acres (including ash pond).	Total Land Acquired = 2972 Acres <ul style="list-style-type: none"> Stage I - (3x660MW)- Around 1500 Acre (including Ash Pond, including Forest land 18.25 acres (7.3875 Ha), Under execution. Stage II- (3x800MW) - around 1472 acres Proposed.
SC-03	Provision for installation of FGD shall be provided for future use.	FGD contract awarded to M/s BHEL in 14.06.2019. Work is under progress.
SC-04	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ . 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.	<ul style="list-style-type: none"> ESP with efficiency of 99.97% is operational in running units to limit PM emission <30 mg/Nm³. (PG test of ESP are attached as Annexure-B) Provision for dust extraction system in Coal Handling area and Ash Handling areas including transfer points as well as other vulnerable dusty areas has been provisioned and provided.
SC-05	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MoEF for suitable amendments to environmental clearance condition wherever necessary.	Being complied. Source of coal is CCL, BCCL, ECL, MCL, NCL, PBCMP, SECL TSDC, NLC & WCFL. Coal analysis report attached as Annexure-C . As per analysis reports ash content in coal slightly exceeds the limit, but as per MOEF & CC notification dated 21.05.2020, any type of coal may be used.
SC-06	Stack of 275 m height shall be installed and provided with continuous online monitoring equipment for SO _x , NO _x and Particulate Matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	<ul style="list-style-type: none"> 275 m stack has been provided with continuous online monitoring system for SO_x, NO_x and PM. Exit velocity ≥ 22 m/sec is being complied. Hg Emission Monitoring is being carried out offline and online Hg analyser has also been installed and commissioned in Unit#1, Unit#2



नबीनगर सुपर थर्मल पावर स्टेशन, पोस्ट-अदिति नगर, जिला: औरंगाबाद (बिहार), पिन कोड : 824304

Nabinagar Super Thermal Power Station, Post-Aditi Nagar, Distt.: Aurangabad (Bihar) Pin Code: 824304

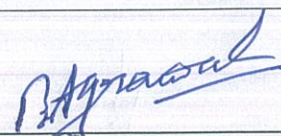
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		and Unit#3 Stacks. Annexure – D (Picture of CEMS analysers).
SC-7	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state Govt.	The study has been conducted by M/s Geoscience Consultancy Services Roorkee. Two water bodies (Salaia & Kurva) in the surrounding village has been rejuvenated as per the earlier hydrogeological study. Final report as submitted is attached as annexure-E . Degenerated water bodies are identified during the study and it is due to discharge of waste water by villagers (i.e. Saduri, Khaira and Kurwa). NSTPS is planning to regenerate the above water bodies through CSR budget.
SC-8	Detailed hydro-geological study shall be conducted (including sustainability of water source study) shall be carried out by an institute of repute and report submitted to the Regional Office (RO) of the ministry. Further hydro-geological study 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 and deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the RO of the Ministry.	Hydro-geological study of NSTPS Nabinagar has been conducted by National Institute of Hydrology, Roorkee in 2019. Report of study has already been submitted. Hydro-geological study is being carried out by M/s Geoscience Consultancy Services Roorkee Vide PO No. 4000303494 dated 31.03.2023. Final report as submitted is attached as Annexure-E, as above. No deterioration of water quality has been observed, as per the study.
SC-9	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	Source of water for meeting the requirement during lean season shall be same as during normal period of operation. The source of the water is from Indrapuri Barrage on Sone River.
SC-10	No ground water shall be extracted for use in operation of the power plant even in lean season.	Ground water is not being extracted for operation of units under any circumstances.
SC-11	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 have been disturbed due to setting up and operation of NSTPS units.



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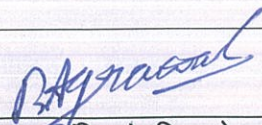
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SC-12	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.	Complied The quantity of water drawn for Nabinagar STPS from Indrapuri Barrage is limited to the committed quantity for the project by State Govt. and therefore minimum required environmental flow is being maintained. Environmental flow is maintained as per Bihar govt agreement dated 09.10.2017. However, mail written to Executive Engineer for providing of minimum required environmental flow (Mail copy attached as Annexure-F). Reply awaited.
SC-13	COC (Cycle of Concentration) of 5.0 shall be adopted. The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed. A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	COC of 5.0 has been adopted. Treated effluents are recycled and reused. Zero Liquid discharge is being followed. However, presently COC of 4.2 to 4.5 is being maintained due to different losses in the cooling Water system, although the leakage water is recycled and reused and ZLD is being maintained. A sewage treatment plant has been installed and operational and the treated sewage water is being sent for raising green belt / plantation.
SC-14	Additional soil for leveling 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 improved.	Complied.
SC-15	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	System for 100% extraction of dry fly ash along with suitable storage facilities has been designed. A utilization plan has been made for 100% fly ash utilization and all efforts are being made for 100 % ash utilization. Annexure – G (Ash utilization data)



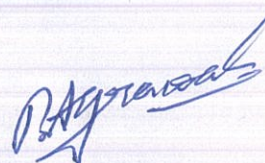
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SC-16	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed of in low lying area.	Dry Fly Ash Extraction system (DAES) is under operational which collects 100% fly ash in dry form. However, dry ash transportation by railway wagons is under construction. Unutilized fly ash shall be disposed through High Concentrated Slurry Discharge (HCSD) and bottom ash through normal slurry mode. Heavy metal monitoring of bottom ash is being carried out periodically. Annexure – H (Fly Ash & Bottom Ash report).
SC-17	Ash pond shall be lined with HDP/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.	Being complied. Ash pond 1 has HDPE lining, ash pond 2&3 do not have HDPE lining but have bentonite clay layer at base. NSTPS has different systems for disposal of Fly ash and bottom ash: <ul style="list-style-type: none"> • High Concentration Slurry Disposal System (HCSD) for fly Ash (Lagoon-I). • Wet Slurry Disposal with Ash Water Re-circulation for Bottom Ash. (Lagoon – II & III). In HCSD lagoon (01 No), the disposed layers of ash are solidified, therefore leaching from HCSD lagoon is minimal. In one bottom ash lagoon, 300 mm thick high concentrated slurry is spread to make it impervious and in another BA lagoon 0.3m thick impervious liner of soil blended with bentonite to achieve a permeability $<1 \times 10^{-6}$ cm/sec is provided. Various instruments (Piezometers, water level sounders, settlement markers) are installed in body of Ash Dyke at various locations for monitoring the health of ash dyke embankment. The supernatant from the Ash Dykes is recycled back to the plant to ensure minimum water inside ash dyke. Adequate safety measures have already been incorporated at design & construction level to prevent dyke from breaching. Operational and preventive measures, as follows, are in practice to prevent any occurrence of breaching.

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		<ol style="list-style-type: none"> 1. Ash dyke Certification being conducted on annual basis as per CPCB chapter -09 of annual certification of ash ponds and dykes and annual compliances audit of ash generation utilization & disposal by Govt Institution. 2. Dyke stability analysis also conducted time to time, whenever required. 3. Internal Audit of ash dyke being conducted by NTPC Corporate Operation Services (Ash Management group) and Regional Operation Services department and station representatives for any non-compliances. 4. Annual Maintenance contract placed for day-to-day maintenance of ash dykes and scope for emergency preparedness is also cover in the above contract. 5. Cross functional team of ash dyke is formed, and report of ash dyke will be prepared on monthly basis for any non-compliances. <p>Safety mock drill are also conducted for emergency preparedness of ash dyke breached.</p> <p>Annexure – I (Picture of Piezometers, water level sounders, settlement markers).</p>
SC-18	Disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) shall be carried out only after obtaining permission from DGMS(Directorate General of Mines Safety) and it shall be ensured that the bottom and sides of the mined-out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	<p>Noted</p> <p>Disposal of Bottom Ash in abandoned mines is not envisaged. In case, it is carried out in future, it shall be carried out as per direction stipulated in EC conditions.</p>



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SC-19	<p>Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised, and adequate justification shall be submitted to the Ministry.</p> <p>Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.</p>	<p>Green belt is being developed with plantation of native species with specified tree density and survival rate by Forest Department, Govt. of Bihar.</p> <p>Following native spices have been planted in Plant premises.</p> <p>Neam, Peeple, Amla, Jamun, Baheda, Sisa:m, Gudel, Sagwan, Mahogani, Mango, Guava, Amaltas, Bargad, Gulmahor, Kadam, Chitwan Etc.</p> <p>Approx. 1,52,500 Saplings have been planted under mass afforestation program with survival rate more than 75%. Annexure – J (Tree Plantation details).</p>												
SC-20	<p>The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.</p>	<p>As per Hydro-Geological Study by NIH, Roorkee, the concentration of fluoride is within the prescribed limit (i.e. 1.5 mg/L) for drinking water requirement in surface water nearby NSTPS project area.</p>												
SC-21	<p>Further an amount of Rs 60.53 Crores shall be earmarked as one-time capital cost for CSR program as committed by the project proponent. Subsequently a recurring expenditure of Rs 10.40 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six months along with road map for implementation.</p>	<p>As per the approved Community development (CD) plan under R&R scheme, work has been undertaken for 51.73 Crores value upto FY 2023-24.</p> <p>Action Plan for CD work to be taken up FY 2024-25 :</p> <table><tr><th>Sl</th><th>Name of CD work</th><th>Estmd. Amount (in cr)</th><th>Target</th></tr><tr><td>1</td><td>Toilet in Middle school Ankorha & Marar village and Ground development at Majhiawan village</td><td>0.391</td><td>Feb'25</td></tr><tr><td>2</td><td>Construction of Community Shed in Baghi & shivanpur village and Pond</td><td>0.61</td><td>Jan'25</td></tr></table>	Sl	Name of CD work	Estmd. Amount (in cr)	Target	1	Toilet in Middle school Ankorha & Marar village and Ground development at Majhiawan village	0.391	Feb'25	2	Construction of Community Shed in Baghi & shivanpur village and Pond	0.61	Jan'25
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		for public purposes in District Court, Aurangabad.		
		13 Community hall in District Aurangabad.	0.80	March' 25
		14 Construction of Main Road in Amba Khaira and Saduri-Dariyabad village.	0.50	March' 25
		15 Construction of PCC Road in Narari Kala, Khaira & Amba village.	0.70	March' 25
		16 Infrastructure developmental work at Devkund in Goh Block	0.41	March' 25
		17 Construction of viilage road at Madhe village	0.75	March' 25
SC-22	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Special scheme for Bidi workers of Solapur shall be formulated. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs. Vocational training program for possible self-	Being complied. The suggested activities are included in the approved CD plan by DM, Aurangabad for its implementation based on need-based assessment. NSTPS, Nabinagar sponsored 30 youths for skill development program at CIPET Hajipur, Agro based training like vermicomposting provided to 50 PAPs and Bee keeping training & honey production and Amrit Krishi training has been provided to 50 PAPs each training and reimbursement of tuition fees for ITI course to the 115 PAPs/their wards. In future, Agro based training shall be imparted as a part of CD plan. Vocational training for skill development to villagers and sewing training provided to girls in the villages. Different Infrastructure need based projects are also being		

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		rejuvenation at Ankorha village		
3		Construction of community hall in Ankorha.	0.28	March' 25
4		Construction of balance road at Majhiwan under CD activities of NPGC	0.495	Feb'25
5		Constn. of class rooms in Govt. high school Salmiya	1.93	Nov'25
6		02 nos ambulance to Govt. hospital	0.358	Feb'25
7		Construction of toilet complex for public uses at District Civil Court, Aurangabad.	0.15	March' 25
8		Construction of village road along the canal in Ankorha village.	0.40	March' 25
9		Drinking water facility in Umga Temple, Madanpur in Aurangabad district on deposit basis.	0.497	Jan'25
10		Various community development works in Surya Mandir DEO, Aurangabad on deposit basis.	0.37	Sep'25
11		Assistance for Surya Mahotsav Deo, Aurangabad, through District Administration	0.10	July'25
12		Procurement on Godrej visitor chair	0.035	June'25

Signature

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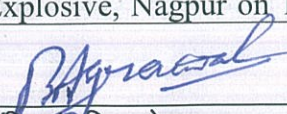
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	employment and jobs shall be imparted to identified villagers free of cost.	undertaken such as construction of Chhath ghats, community halls etc. at panchayat level.
SC-23	Shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Being complied. NSTPS/NTPC Limited has in-built own system for monitoring and implementation of the complete CSR/R&R Community Development Plan at the Unit level, Region level and Corporate level. A specific social audit shall be undertaken after.
General Conditions		
GC-1	A well-designed rainwater harvesting shall be put in place before commissioning of the plant. Central Ground water Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished.	Approval of Central Ground Water Board (CGWB) granted for construction of Rainwater harvesting (RWH). Four Nos. recharge shafts (borewell) of RWH completed in Plant area near raw water Pump House and Two Nos. recharge shafts (borewell) of RWH in Township completed. Annexure – L (RWH details with picture).
GC-2	Adequate safety measures shall be provided in the plant area to check/minimize 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.	Complied. Provision for adequate safety measures is being implemented as stipulated. Major safety measures in place are: 1) Fire Hydrant System provided. 2) Automatic medium velocity water spray system for conveyor, TP's Provided. 3) Automatic Fire Detection Cum Sprinkler for crusher house provided. 4) In addition, the above the project have established full-fledged fire station manned around the clock by CISF. Details of safety measures and plant lay out have been submitted as Annexure-M
GC-3	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with	Complied. License for storage of LDO has been granted by department of Explosive, Nagpur on 16.10.2018





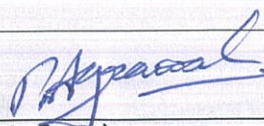
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	Department of Explosives - Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	and is valid up to 31.12.2026. Annexure-N, LDO Storage Licence). HFO & LSHS are not being used in the plant. Sulphur content in the liquid fuel is as per relevant IS code 15770:2021 Disaster Management plan prepared and approved by HOP Nabinagar.
GC-4	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Being Complied. Being complied. Ground water analysis report is attached as Annexure-O (Ground water report) .
GC-5	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.	Being complied Surface water analysis report is attached as Annexure-P (Surface water report) .
GC-6	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid and sanitation arrangements have been made for the drivers and other contract workers. Toilets and drinking water arrangement has been provided at main plant area. Annexure-Q (First Aid & sanitation photographs) .
GC-7	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like	Noise level monitoring being done. Noise level monitoring report is attached as Annexure-R (Noise level report) .

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	earplugs/earmuffs 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.	Requisite Personal protective equipment being ensured, and training imparted, and requisite training being imparted. Periodical examination of workers being carried out working in high noise area.
GC-8	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & 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.	AAQMS at specified 04 locations is being carried out regularly. AAQMS report is attached as Annexure-S (AAQMS report) . Online Ambient Air Quality station have already been Installed (in consultation with pollution control board) and commissioned and all are operational.
GC-9	Provision shall be made for the housing of construction labour (as applicable) within the 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.	Housing of construction labour (as applicable) with all necessary infrastructure and facilities are being provided within the site by concerned agencies as per contract.
GC-10	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are 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. Annexure-T (Photo of Newspaper Advertisement).



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GC-11	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zila Parisad/ Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	All three Units in operation. NPGCL Nabinagar is now merged with NTPC Ltd. named as Nabinagar Super Thermal Power Station (NSTPS). Data uploading on NTPC website has been done. Annexure-U (Copy of Letter sent to Panchayat).
GC-12	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the head of the organization.	An Environment Cell known as Environment Management Group (EMG) has already been created and functional at site. Currently AGM(TS/EMG) is heading the EMG Group and reporting to the head of NSTPS.
GC-13	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 and the SPCB. The criteria pollutant levels namely, SPM, RSPM (PM _{2.5} & 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.	Complied.
GC-14	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.	Being complied. Environmental Statement sent to MOEF&CC and BSPCB on dated 25.09.2024.

[Signature]



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GC-15	<p>The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.</p>	<p>Last six monthly report on status of the implementation of stipulated environmental safeguards was submitted on 03.06.2024 to MOEF&CC Regional Office, Central Pollution Control Board and State Pollution Control Board.</p> <p>Last status of compliance of the environmental clearance conditions was uploaded on company website. It is accessed from the https://ntpc.co.in/about-us/corporate-functions/environment/status-hyc-reports</p> <p>Half Yearly EC Compliance report for the period of April-2024 to Sept-2024 is being submitted herewith.</p> <p>All three Units in operation. NPGCL Nabinagar is now merged with NTPC Ltd. named as Nabinagar Super Thermal Power Station (NSTPS). Data uploading on NTPC website has been done and updated the same periodically.</p>
GC-16	<p>Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponents will up-load the compliance status in their website and up-date the same from time to time at least six-monthly basis. Criteria pollutants levels including NO_x (from stack & ambient air) shall be displayed at the main gate of the power plant.</p>	<p>Compliance report is being submitted regularly as per schedule.</p> <p>Environmental Impact Assessment Report has already been submitted to Regional office & Environment Management Plan / Environment Statement has been submitted to MoEF&CC from time to time.</p> <p>Display Board has been installed at the main Gate of the Power Plant. Real Time Environment Monitoring data is being displayed.</p>
GC-17	<p>Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. This cost shall be included as part of the</p>	<p>An amount of Rs 992.48 Crores have been earmarked in the Feasibility Report for Nabinagar STPP towards environmental measures like ESP (267.27cr), Chimney (95.45cr), Cooling System</p>

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Nabinagar Super Thermal Power Station, Post-Aditi Nagar, Distt.: Aurangabad (Bihar) Pin Code: 824304

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	project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	(141.31cr), Ash Handling and Disposal (370.80cr), Effluent Treatment (39.66cr), Sewage Treatment (5.64cr), Dust Extraction and Suppression System (2.66cr), ZLD (9.05cr), Fire Fighting (30.43cr), Green Belt and Afforestation (6.83cr), DM Plant Waste treatment System (22.38cr), Env. Lab equipment (1.0cr). Various system are under implementation at site.
GC-18	The project authorities shall inform the Regional Office as well as the Ministry regarding the 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 plant.	Investment approval for the project was accorded by Board of NTPC Limited on 21.01.2013. The first, second and third Unit has been commissioned and commercial operation has been started from 6 th Sep'2019, 23 rd July'2021 and 01 st Jun'2022 respectively.
GC-19	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.	Full cooperation is being extended as and when required.
ADDITIONAL CONDITIONS (J-13012/127/2007-1A.II(T))		
AC-1	The details of technology selection for adoption of FGD for control of SO _x shall be submitted. In case of wet FGD, details regarding source of limestone, impact of transportation, handling storage and disposal of Gypsum including land requirement shall be submitted.	Details regarding adoption of FGD, as submitted earlier, is attached as Annexure-U1.
AC-2	In case SCR/SCNR is not adopted, an alternate technology analysis and justification of technology selection for NO _x reduction is to be submitted.	For NO_x reduction system: The boiler is of sliding pressure supercritical, once-through type, utilizing a Tangential Firing System for NO _x control in addition with SOFA (Separated Over Fire Air) and COFA (Close-coupled Over Fire Air) system.

Signature

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AC-3	Progress of construction power plant till its commissioning, installation of FGD and De-Nox measures shall be submitted as a part of six-monthly compliance reports.	Details of FGD progress report is attached as Annexure-V (FGD status) .
AC-4	Emission norms and specific water consumption as per ministry norms dated 07.12.2018 and 28.12.2018 shall be complied with. As committed, Flue gas desulphurization unit and selective catalytic reactor to control SO ₂ and NO _x respectively shall be installed.	Being complied. FGD erection work is under progress.
AC-5	Water requirement for FGD to be installed in the existing units has to be provided. Therefore, water balance to be modified based on the water requirement for whole units including a plan on ZLD.	Water balance diagram has been submitted along with previous compliance report of 31 st Mar-2020. . Water balance requirement for FGD for existing Units will be provided after commissioning of FGD system.
AC-6	The stack emissions (min, max, average and 98 percentile) shall be submitted for the period of six months in the compliance report. Further daily water withdrawal, consumption, power generation and average PLF shall be submitted. The specific water consumption per MWhr shall be calculated based on water consumption shall be submitted in the compliance report.	Stack emission data for compliance period is enclosed at Annexure-W (Stack emission report) . Water consumption data for compliance period is enclosed at Annexure-X (Specific water consumption) .
AC-7	The plant shall operate only after meeting the new emission norms as notified by ministry. Else, extension of timelines from CPCB for implementing pollution control measures for meeting new norms shall be obtained and copy of the same shall be submitted to Ministry.	SPM is within emission norm. SO _x emission shall be within stipulated norms after FGD installation and commissioning.

Brijendra Agrawal
30/12/24

(Brijendra Agrawal)
HOD (TS / EMG)

Nabinagar Super Thermal Power Station,
Nabinagar