



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/ Emt, Mgt./04/2024

Date: 31.05.2024

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 Oct-2023 to Mar-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 Oct-2023 to Mar-2024 of Nabinagar Super Thermal Power Station (3X660MW).

Yours Sincerely,


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

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

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7 इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110003

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कॉरपोरेट आइडेंटिफिकेशन नम्बर / Corporate Identification Number : L40101DL1975GOI007966 वेबसाइट / website: www.ntpc.co.in

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S.N.	CONDITIONS	EC Compliance Report as on 31.03.2024
Specific Conditions		
SC-01	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Vision doc submitted with 1 st ECCR submitted on 27.05.2014.
SC-02	Land requirement shall be restricted to 1500 acres (including ash pond).	Total Land Acquired = 2972 Acres • Stage I - (3x660MW)- Around 1500 Acre (including Ash Pond), 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. 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.	• ESP with efficiency of 99.97% is operational in running units to limit PM emission <30 mg/Nm ³ . • 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 being 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. In case of variation in supply of coal quality, fresh reference shall be made to MoEF. Annexure-A (Coal analysis)
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.	• 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 and Unit # 3 Stacks. Annexure – B (Picture of CEMS analysers).
SC-7	Existing de-generated water bodies (if any) in the study area shall be regenerated at the	The study has been conducted by M/s Geoscience Consultancy Services Roorkee. Final report yet to be submitted.

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	project proponent's expenses in consultation with the state Govt.	
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 will be submitted once the study is completed.
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.
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.	The quantity of water drawn for Nabinagar STPS from Indrapuri Barrage shall be limited to committed quantity for the project by State Govt. and therefore minimum required environmental flow shall be maintained.
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.	COC of 5.0 has been adopted. Treated effluents are recycled and reused as well as plant has been designed for Zero liquid discharge.

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	<p>Arrangements shall be made that effluents and storm water do not get mixed.</p> <p>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.</p>	<p>A sewage treatment plant is installed and operational and the treated sewage is being sent to horticulture ring for raising greenbelt/plantation.</p>
SC-14	<p>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.</p>	<p>Complied.</p>
SC-15	<p>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.</p>	<p>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 – C (Ash utilization date & 5 yrs rolling plan)</p>
SC-16	<p>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 off in low lying area.</p>	<p>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 – D (Fly Ash & Bottom Ash report). Heavy metal monitoring of Ash Pond effluent shall be carried out once as pond effluents are discharged.</p>
SC-17	<p>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.</p>	<p>NSTPS has different systems for disposal of Fly ash and bottom ash:</p> <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). <p>In HCSD lagoon (01 No), the disposed layers of ash are solidified, therefore leaching from HCSD lagoon is minimal.</p> <p>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</p>

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		<p>impervious liner of soil blended with bentonite to achieve a permeability $<1 \times 10^{-6}$ cm/sec is provided.</p> <p>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. Annexure – E (Picture of Piezometers, water level sounders, settlement markers).</p> <p>Adequate safety measures have already been incorporated at design & construction level to prevent dyke from breaching. Operational and preventive measures are in practice to prevent any occurrence of breaching.</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.	Noted and 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.
SC-19	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. Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.	<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>Approx. 1,47,500 Saplings have been planted under mass afforestation program with survival rate more than 75%. Annexure – F (Tree Plantation details).</p>
SC-20	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package	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

Signature

Signature

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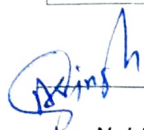
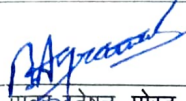
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	with implementation schedule for providing fluoride free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	water requirement in surface water nearby NSTPS project area. However, as per NSTPS Nabinagar, R&R community development scheme, requisite amount has been deposited to Public Health Engineering Department (PHED), Aurangabad for installation of 110 hand pump for safe and clean drinking water in the nearby villages and 90% work is completed.
SC-21	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.	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. Further proposal for 7.41 crores, CD activities is under pipeline for award of the work in FY 2024-2025. For Balance amount 1.38 Cr, activities are under finalization with stakeholders and District administration. Annexure – G (CSR-CD works).
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-employment and jobs shall be imparted to identified villagers free of cost.	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 to 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 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	Being complied. NSTPS/NTPC Limited has in-built own system for monitoring and

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	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.	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 – H (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.	Provision for adequate safety measures is being implemented as stipulated. Details of safety measures and plant lay out have already been submitted to RO of ministry.
GC-3	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with 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.	License for storage of LDO has been granted by department of Explosive, Nagpur on 16.10.2018 and is valid upto 31.12.2026. Annexure-J (LDO storage License validity copy). Sulphur content in the liquid fuel does not exceed 0.5%. On-site Disaster Management Plan has been prepared and approved for implementation.
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	Being Complied. Being complied. Ground water analysis report is attached as Annexure-K (Ground water report).

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	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.	
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-L (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 are being made at main plant area. Annexure-M (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 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.	Noise level monitoring being done. Noise level monitoring report is attached as Annexure-N (Noise level report) . 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	AAQM at specified 04 locations is being carried out regularly. AAQM report is attached as Annexure-O (AAQM report) . Online Ambient Air Quality station have already been Installed (in consultation with pollution control board) and commissioned and all are operational.

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	shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	
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-P (Photo of Newspaper Advertisement).
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-Q (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	Complied.

[Signature]

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कॉर्पोरेट आइडेंटिफिकेशन नम्बर / Corporate Identification Number : L40101DL1975GOI007966 वेबसाइट / website: www.ntpc.co.in



नबीनगर / Nabinagar

	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.	
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 22.09.2023.
GC-15	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>Last six monthly report on status of the implementation of stipulated environmental safeguards was submitted on 31.12.2023 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 Oct 2023 to March 2024 is being submitted herewith.</p> <p>All three Units in operation. NPGCL Nabinagar is now merged with NTPC Ltd. named as</p>

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

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

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

कॉरपोरेट आइडेंटिफिकेशन नम्बर / Corporate Identification Number : L40101DL1975GOI007966 वेबसाइट / website: www.ntpc.co.in



नबीनगर / Nabinagar

		Nabinagar Super Thermal Power Station (NSTPS). Data uploading on NTPC website has been done and updated the same periodically.
GC-16	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>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	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 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.	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 (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 /	Full cooperation is being extended as and when required.

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

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7 इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110003

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नबीनगर / Nabinagar

	Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.	
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 submitted with previous compliance report dt 31.03.2020.
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.
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 attached as Annexure-R (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.
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	Stack emission data for compliance period is enclosed at Annexure-S (Stack emission report) .

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नबीनगर / Nabinagar

	PLF shall be submitted. The specific water consumption per MWhr shall be calculated based on water consumption shall be submitted in the compliance report.	Water consumption data for compliance period is enclosed at Annexure-T (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.

30/05/2024

31/05/24
B. Agrawal
AGM (TS/EMG)

Chandan Kumar Samanta

Head of Station
Nabinagar Super Thermal Power Station,
Nabinagar

चंदन कुमार सामंता/Chandan Kumar Samanta
मुख्य महाप्रबंधक/Chief General Manager
नबीनगर सुपर थर्मल पावर स्टेशन
Nabinagar Super Thermal Power Station

Details of Coal used for the period from Oct.-2023 to Mar-2024 of NSTPS, Nabinagar

AVERAGE RANGE DATA					
MONTH		Ash content	Sulphur	Total Moisture	GCV
OCT'23	DOMESITIC	33.96	*	13.93	3658
	IMPORTED	8.32	0.54	22.49	4916
NOV'23	DOMESITIC	33.88	*	12.54	3769
	IMPORTED	11.09	0.38	19.3	5167
DEC'23	DOMESITIC	34	*	13.29	3650
	IMPORTED	8.53	0.48	22.42	4977
JAN'24	DOMESITIC	34.91	0.52	13.24	3765
	IMPORTED	15.08	0.64	18.99	4937
FEB'24	DOMESITIC	33.88	0.48	13.63	3782
	IMPORTED	8.13	0.69	22	4936
MAR'24	DOMESITIC	33.94	0.46	13.03	3736
	IMPORTED	11.29	0.66	21.23	5011



**90 mtr opacity front
side**



**90 mtr opacity back
side**



NSTPS- NABINAGAR : Ash Utilisation Department			
Ash Utilisation report for date			
		Monthly	Yearly FY 23-24
Ash Generation	MT	202182	2992072
Dry fly Ash issued to Cement/RMC etc Industries (free)	MT	0	0
Dry fly Ash issued to Cement/RMC etc Industries (sale)	MT	93428	984734
Dry fly Ash issued to Brick/Block/tiles etc (internal)	MT	0	0
Dry fly Ash issued to Brick/Block/tiles etc. (external)	MT	2230	24043
Dry Fly Ash Low lying area filling	MT	2325	24319
Pond Ash issued to Road construction agency NHAI Project	MT	173535	972870
Pond Ash issued to Cement Plant	MT	20240	92450
Issue for Mine filling/stowing	MT		
Ash Dyke Raising/buttreassing	MT		
Cenosphere	MT		
Total Ash utilisation	MT	291758	2098416
Dry Fly Ash utilisation	%	59.14	42.14
Total Ash utilisation	%	144.30	70.13
Note: Daily data are of tentative nature.			

5 YEAR ASH UTILIZATION PLAN FOR NPGCL : 25 LMT/ANNUM

Avenues	Last 3 yrs Average	2022-23	2023-24	2024-25	2025-26	2026-27
Industry	5.70	13.5	15.0	17.0	19.0	19.0
Brick etc.	.05	0.48	0.6	0.8	1.0	1.0
Road Projects	-	6.0	7.0	9.2	10.0	10.0
Total (LMT/%)	-	19.4 (77.6)	22.6 (90.4)	27.0 (108)	28 (112)	28 (112)



Test Report

Sample Number: VEL/ASH/01
Name & Address of the Party: M/s Nabinagar Super Thermal Power Station,
P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India
Sample Description: Fly Ash
Sample Collected by: Vardan EnviroLab Representative
Parameter Required: As per Work Order
Sampling Quantity: 250 gm.

Report No.: VEL/C/2306220001
Format No.: 7.8 F-03
Party Reference: 4000280838-057-2035 Dated 14.06.2022
Reporting Date: 03/07/2023
Period of Analysis: 22/06/2023 to 03/07/2023
Receipt Date: 22/06/2023
Sampling Date: 17/06/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	1.26	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	4.64	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	5.20	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	5.06	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	4.60	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	210.22	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	6.50	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	36.50	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	3.92	µg/gm

End of Report



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Test Report

Sample Number: VEL/ASH/02
Name & Address of the Party: M/s Nabinagar Super Thermal Power Station,
P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India
Sample Description: Bottom Ash (Unit -I)
Sample Collected by: Vardan EnviroLab Representative
Parameter Required: As per Work Order
Sampling Quantity: 250 gm.

Report No.: VEL/C/2306220002
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022
Reporting Date: 03/07/2023
Period of Analysis: 22/06/2023 to 03/07/2023
Receipt Date: 22/06/2023
Sampling Date: 17/06/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	7.76	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	0.98	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	3.42	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	310.65	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	5.42	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	13.54	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	6.22	µg/gm

End of Report



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Test Report

Sample Number: VEL/ASH/03
Name & Address of the Party: M/s Nabinagar Super Thermal Power Station,
P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India
Sample Description: Bottom Ash (Unit -II)
Sample Collected by: Vardan EnviroLab Representative
Parameter Required: As per Work Order
Sampling Quantity: 250 gm.

Report No.: VEL/C/2306220003
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022
Reporting Date: 03/07/2023
Period of Analysis: 22/06/2023 to 03/07/2023
Receipt Date: 22/06/2023
Sampling Date: 17/06/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	0.21	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	0.15	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	2.84	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	0.36	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	3.46	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	275.63	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	5.96	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	7.23	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	5.45	µg/gm

End of Report



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Test Report

Sample Number: VEL/ASH/04
Name & Address of the Party: M/s Nabinagar Super Thermal Power Station,
P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India
Sample Description: Bottom Ash (Unit -III)
Sample Collected by: Vardan EnviroLab Representative
Parameter Required: As per Work Order
Sampling Quantity: 250 gm.

Report No.: VEL/C/2306220004
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022
Reporting Date: 03/07/2023
Period of Analysis: 22/06/2023 to 03/07/2023
Receipt Date: 22/06/2023
Sampling Date: 17/06/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	0.17	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	0.08	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	4.26	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	0.67	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	4.60	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	245.92	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	4.46	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	42.40	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	3.96	µg/gm

End of Report



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Test Report

Sample Number:	VEL/ASH/01	Report No.:	VEL/C/2309300001
Name & Address of the Party:	M/s Nabinagar Super Thermal Power Station (NSTPS) Shivanpur, P.O.-Ankhora Railway Station, Bihar Aurangabad, Bihar-824303, India	Format No.:	7.8 F-03
Sample Description:	Fly Ash	Party Reference No.:	4000280838-057-2035 Dated 14.06.2022
Sample Collected by:	Vardan EnviroLab Representative	Reporting Date:	05/10/2023
Parameter Required:	As per Work Order	Period of Analysis:	30/09/2023 to 05/10/2023
Sampling Quantity:	250 gm.	Receipt Date:	30/09/2023
		Sampling Date:	27/09/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	1.35	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	3.46	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	8.13	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	4.39	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	5.32	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	343.40	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	7.41	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	38.67	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	4.21	µg/gm

End of Report



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Test Report

Sample Number:	VEL/ASH/02	Report No.:	VEL/C/2309300002
Name & Address of the Party:	M/s Nabinagar Super Thermal Power Station (NSTPS) Shivanpur, P.O.-Ankhora Railway Station, Bihar Aurangabad, Bihar-824303, India	Format No.:	7.8 F-03
Sample Description:	Bottom Ash (Unit -1)	Party Reference	4000280838-057-2035 Dated
Sample Collected by:	Vardan EnviroLab Representative	No.:	14.06.2022
Parameter Required:	As per Work Order	Reporting Date:	05/10/2023
Sampling Quantity:	250 gm.	Period of Analysis:	30/09/2023 to 05/10/2023
		Receipt Date:	30/09/2023
		Sampling Date:	27/09/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	8.45	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	0.77	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	4.10	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	323.41	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	4.80	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	12.45	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	2.46	µg/gm

End of Report



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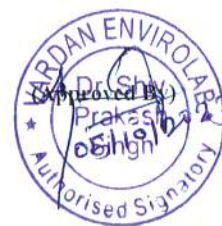
Test Report

Sample Number:	VEL/ASH/03	Report No.:	VEL/C/2309300003
Name & Address of the Party:	M/s Nabinagar Super Thermal Power Station (NSTPS) Shivanpur, P.O.-Ankhora Railway Station, Bihar Aurangabad, Bihar-824303, India	Format No.:	7.8 F-03
Sample Description:	Bottom Ash (Unit -II)	Party Reference	4000280838-057-2035 Dated
Sample Collected by:	Vardan EnviroLab Representative	No.:	14.06.2022
Parameter Required:	As per Work Order	Reporting Date:	05/10/2023
Sampling Quantity:	250 gm.	Period of Analysis:	30/09/2023 to 05/10/2023
		Receipt Date:	30/09/2023
		Sampling Date:	27/09/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	0.34	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	0.18	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	2.45	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	0.42	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	4.87	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	283.62	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	6.14	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	8.45	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	6.78	µg/gm

End of Report



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Test Report

Sample Number: VEL/ASH/04
Name & Address of the Party: M/s Nabinagar Super Thermal Power Station (NSTPS)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India
Sample Description: Bottom Ash (Unit -III)
Sample Collected by: Vardan EnviroLab Representative
Parameter Required: As per Work Order
Sampling Quantity: 250 gm.

Report No.: VEL/C/2309300004
Format No.: 7.8 F-03
Party Reference: 4000280838-057-2035 Dated
No.: 14.06.2022
Reporting Date: 05/10/2023
Period of Analysis: 30/09/2023 to 05/10/2023
Receipt Date: 30/09/2023
Sampling Date: 27/09/2023

TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	0.35	µg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	4.59	µg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	µg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	0.72	µg/gm
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	4.12	µg/gm
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	239.67	µg/gm
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	5.12	µg/gm
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	40.85	µg/gm
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	4.29	µg/gm

End of Report



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Mar-2024 17:04:47

ti Nagar Road Saduri Magadh
on Bihar



Mar-2024 17:04:47

ti Nagar Road Saduri Magadh
on Bihar



Mar-2024 16:21:47

named Road Dariyabad Magadh
ision Bihar



Tree Plantation details of NSTPS Nabinagar

Tree Species Planted:

Aamla, Jamun, Baheda, Shisham, Gamhar, Sagwan(Teak), Mahogani, Kahua, Aasan, Khair, Katahal, Mango, Mahua, Bamboo, Sirish, Black Shisham, Amaltas, Bakain, Neem, Karanj, Pipal, Bargad, Pakur, Gular, Kadamb, Gulmohar Plants.

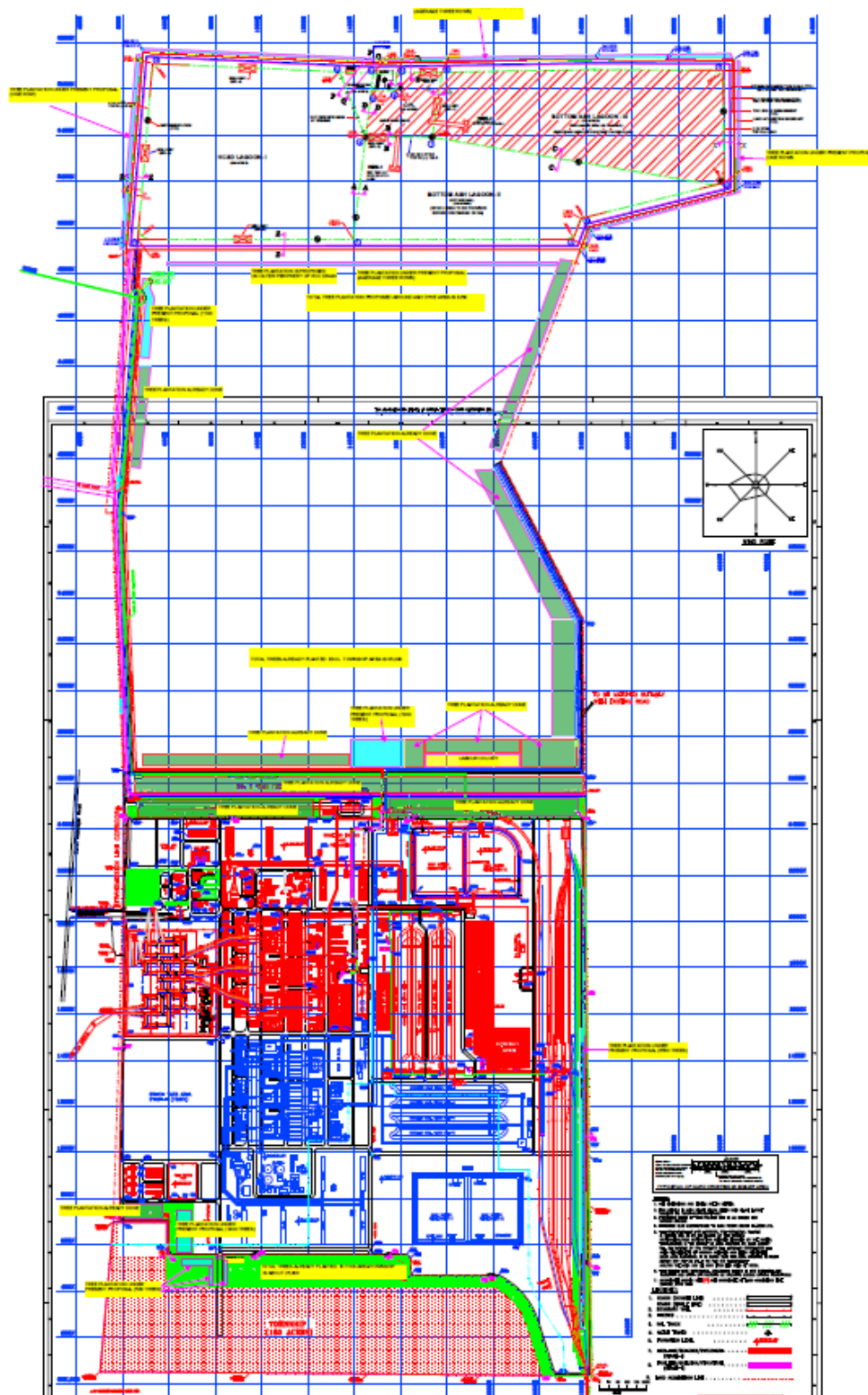
STATUS OF TREE PLANTATION AS PER GENERAL LAYOUT PLAN OF NSTPS, NABINAGAR

Annexure-VII

Sl. No.	Particulars	Area (in acres)	Remarks
1	North side of Plant boundry	39	
2	South side of Plant boundary	50	
3	East side of Plant boundary	28	
4	West side of Plant boundary	6	
	Total :	123	

Note: As per Specific condition No.xix of EC dated 27.12.2010, the tree density shall not less than 2500 per ha with survial rate not less than 75%.

	Calculation for tree planted:		
	123 Acre = 49.79 Hectare	50 Hectare	
	No. of Tree per hectare	2500 Nos.	
	Total No. of Tree required as per GLP in 50 ha	125000 Nos.	
	Presently sapling planted at NSTPS, Nabinagar	147500 Nos.	



Peripheral Greenbelt Developed



Fig. 1: Outside the plant boundary near Raghunathpur village (Northern side of main plant).

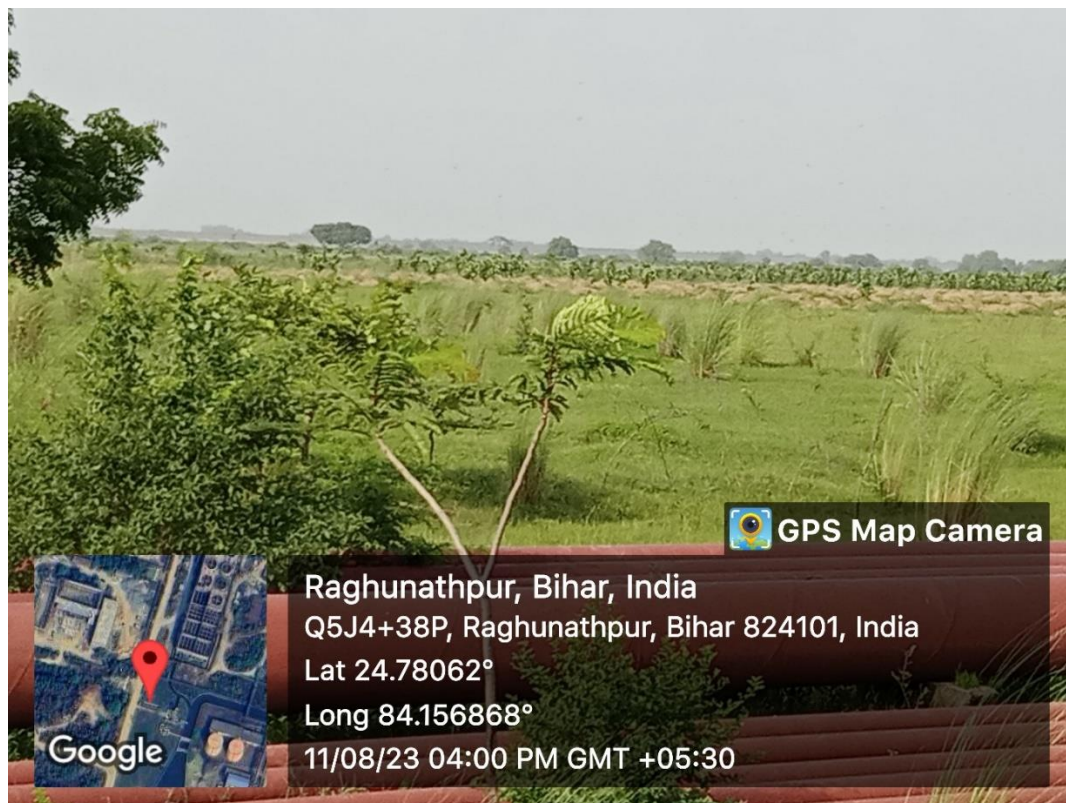


Fig. 2: Outside the plant boundary near Raghunathpur village (between ash dyke and Northern side boundary wall).



Fig. 3: Outside the plant boundary near Raghunathpur village (Northern side of main plant).



Fig. 4: Outside the plant boundary near Narari Kalan village. (Northern side of main plant).

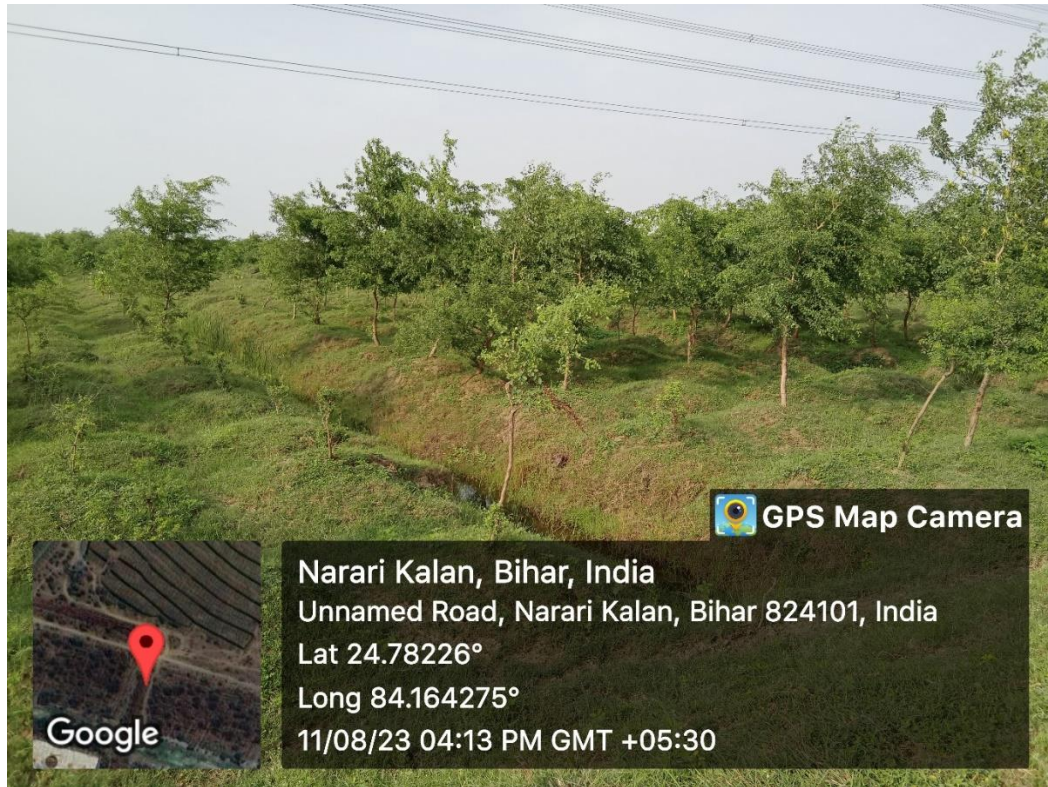


Fig. 5: Outside the plant boundary near Narari Kalan village. (Northern side of main plant).

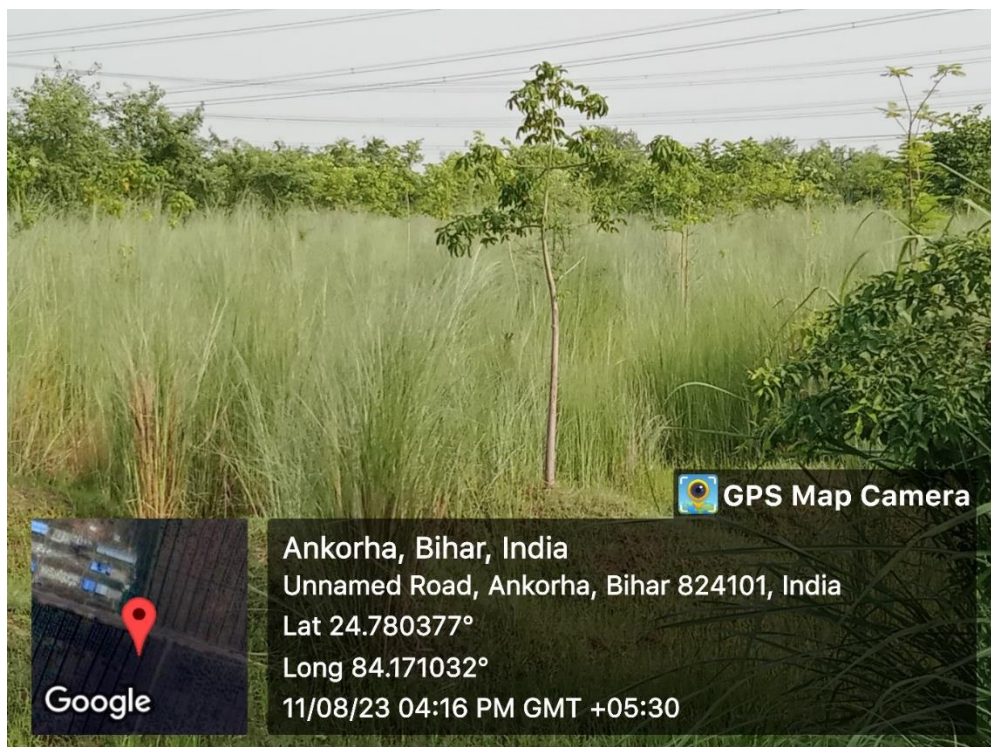


Fig. 6: Outside the plant boundary near Ankorha village. (Eastern side of main plant).



Fig. 7: Outside the plant boundary near Kunrwa village. (Near Ash dyke).



Fig. 8: Western side of Ash dyke near Meh village.



Fig. 9: Inside plant near H-block office.

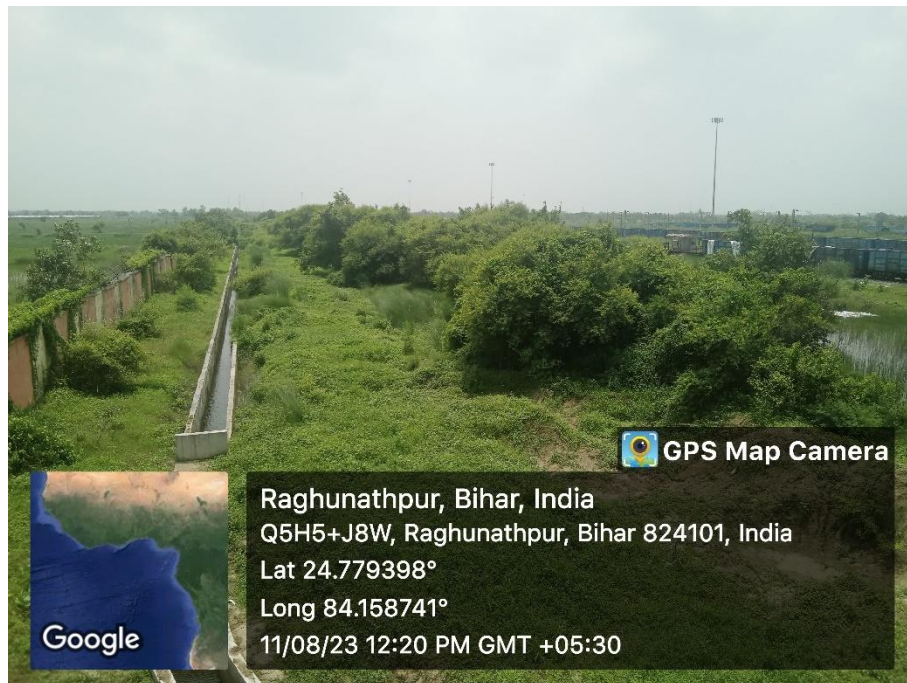


Fig. 10: Inside plant between eastern boundary wall and railway track of MGR.



Fig. 11: Inside NSTPS township area near STP.

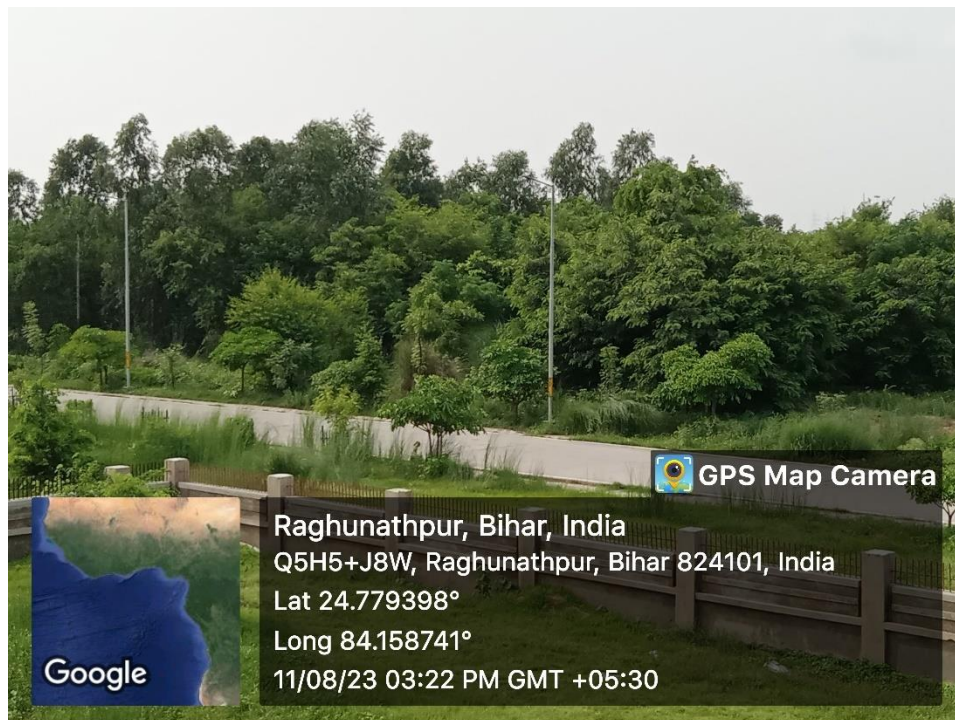


Fig. 12: Inside NSTPS township between temple and Shivanpur porta cabin

NPGCL R&R-Community Development Activities					
Education (Sath Padhe Sath Badhe) (5.0 crs.)					
Sl. No	Activities completed	Aarded/A mount in CR	Expenditure incurred in cr.	Under Tenderin g	Remarks
1	Distribution of 6500 School Bags in 24 PAVs Govt. School students.	0.15	0.44		Completed
2	Distribution Stationary items in in 24 PAVs Govt. School students.	0.09			Completed
3	Distribution of 6500 Sweaters in 24 PAVs Govt. School students.	0.19			Completed
4	Quiz & Painting Competition for PAVs Govt. Schools Student.	0.0057	0.0057		Completed
5	Distribution of Computers to Kasturba Gandhi Girls school, Nabinagar.	0.033	0.033		Completed
6	Skill Development Training Programme for PAPs 29th Students in CEPET, Hajipur.	0.20	0.20		Completed
7	Meritorious Award to all PAVs School's for 8th, 10th and 12th passed Students.	0.0894	0.0894		Completed
8	Distribution of School Furnitures in 24 Govt. schools in affected villages.	1.10	1.10		Completed
9	Reimbursement of Scholarship of 115 PAP ITI students. (under process)	0.36	0.36		Completed
10	Procurement of Play equipement for PAVs Govt. schools	0.16	0.16		Completed
11	Play Equipment for village schools	0.14	0.14		Completed
12	Internal Electrification o (HSS SHIVANPUR) under CD activities of NPGC.	0.062	0.062		completed
13	Tailoring/Sewing Training Programme for PAVs women/girls	0.042	0.035		completed
14	Conductioning Sports Compitition for PAVs Govt. School's Student.	0.04	0.04		Completed
15	Boundary wall in Middle school Salaiya	0.39	0.2983		completed
16	School Bags to students	0.006	0.006		Completed
17	Solar lantern to sewing trainees	0.007	0.007		Completed
18	Sewing machines to 50 trainees	0.025	0.025		Completed
19	Constn. of class rooms in Govt. high schoool Salaiya			1.93	under award
20	Solar LED lantern to Meritorious students	0.008	0.008		Completed
Total Rs. in Crore (A)		3.10	3.01	1.93	
Health (Sankalp Aarogayam)(6.7 crs.)					
1	Mobile Van Health Service through Indian Red Cross Society, Aurangabad for 22 PAVs .	0.0264	0.0264		Completed
2	Mobile Van Health Service through Indian Red Cross Society, Aurangabad for 22 PAVs .	0.1			Completed
3	Mobile Van Health Service through Indian Red Cross Society, Aurangabad for 22 PAVs .	0.11			Completed
4	Mobile Van Health Service through Indian Red Cross Society, Aurangabad for 22 PAVs .	0.67	0.88		Completed
5	Mobile Van Health Service through Indian Red Cross Society, Aurangabad for 22 PAVs . (new contract)	0.35	0.30		Completed
6	03 General Health Camp for PAPs also organized .	0.07	0.07		Completed
7	Tri- Cycle Distribution to PAPs .	0.032	0.032		Completed
8	Addl. PHC Construction at Meh. (Meh completed and PHC running)	0.66	0.66		completed
9	Addl. PHC Construction at Ankorha.	0.13	0.13		old contract terminated and new contract awarded.
10	Addl. PHC Construction at Ankorha for balance work. (Risk & cost)	0.935	0		Work yet to start
11	Internal Electrification of PHCs under CD activity.	0.57	0.57		Completed
12	Tri-cycle Distribution to PAPs Phase-II	0.023	0.023		Completed
13	Furniture and medical equipments to 02 APHC Meh & Ankorha. (completed for APHC Meh)	0.358	0.36		Completed
					Completed
14	02 nos ambulance to Govt. hospital			0.53	under procurement
Total Rs. in Crore (B)		4.03	3.05	0.53	

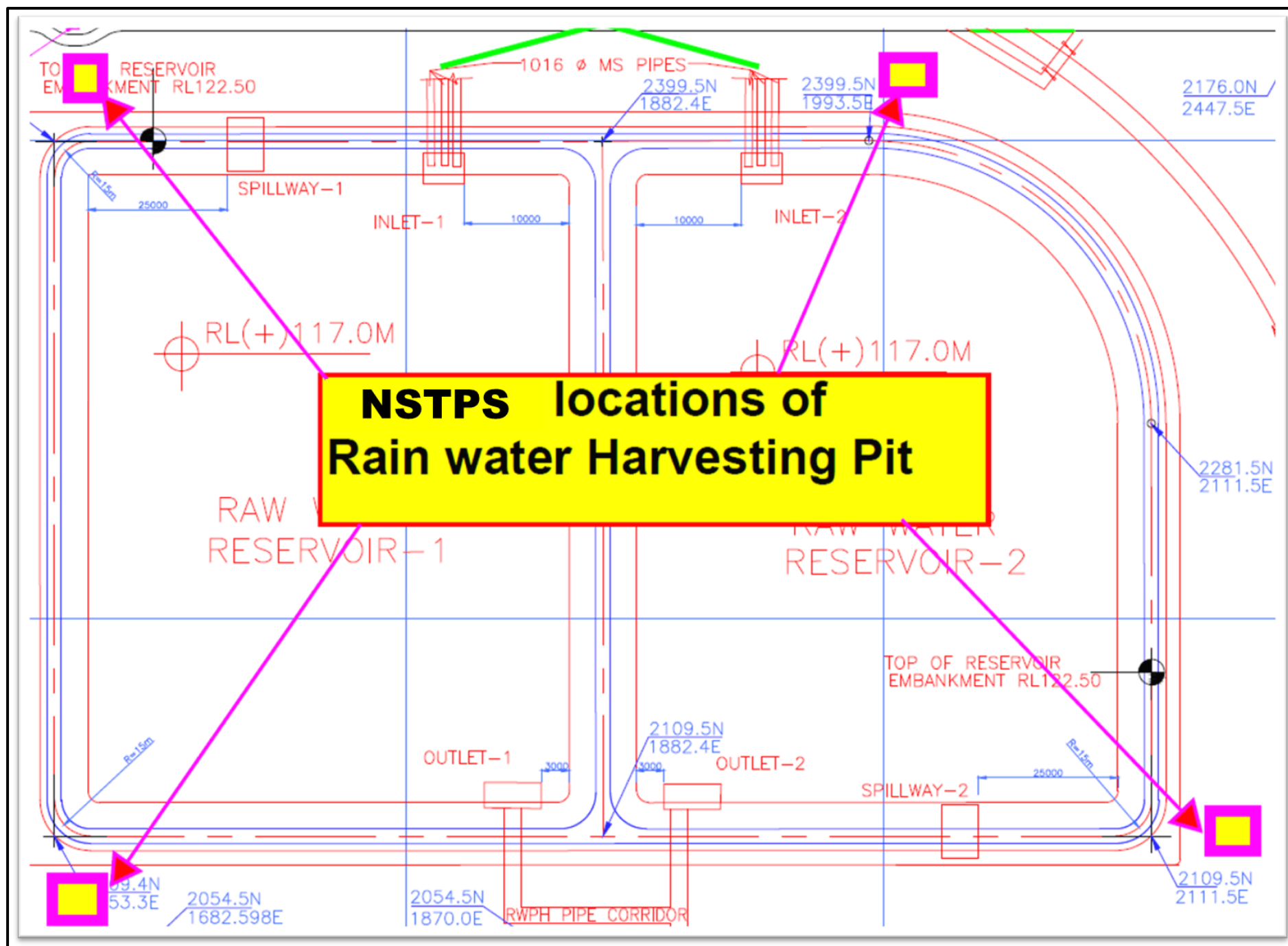
Sl. No	Activities completed	Aarded/A mount in CR	Expenditure incurred in cr.	Under Tenderin g	Remarks
Drinking Water (Jal Dhara) (1.5 crs.)					
Sl. No	Activities completed		Expenditure (Cr.)		
1	Installation of 10 nos. Hand Pump for Saduri Resstallment Colony.	0.03	0.025		Completed
2	Installation of 110 hand pumps in the 22 villages. (on deposit work basis)	0.60	0.5		90% work completed
3	8 nos. Installtion of hand pump	0.0388	0	0	work yet to start
Total Rs. in Crore (C)		0.67	0.53	0	
Sanitation (Nirmal) and other activities (0.35+.30 crs.)					
Sl. No	Activities completed		Expenditure (Cr.)		
1	Distribution of Dustbin, Broom, Duster Cloth, Hand Wash Soap at 05 nos. Govt. Schools at PAVs.	0.02	0.02		Completed
2	Toilets in Govt. schools in PAVs Ankorha and Majhiawan			0.20	under tendering
Total Rs. in Crore (D)		0.02	0.02	0.20	
Welfare & Cultural Activities (1.30 crs.)					
1	Assistance of PAPs Girl Marriage	0.001	0.001		Completed
2	Distribution of Tripal for Baghi HSOs Resettled at Saduri RC.	0.0043	0.0043		Completed
3	Providing 20 nos. Wheel chair to Railway Division, Mughalsarai.	0.0138	0.0138		Completed
4	Distribution of 100 Blankets and Cloth, Balti, Tarpoline on request of Indian Cross Society, Aurangabad.	0.0322	0.0322		Completed
5	Sponsoring and Supporting Sports event and other activities.	0.0155	0.0155		Completed
6	Vermicompost Training for PAPs by TM Bhagalpur University on 23-24th March 2018 at NPGC Campus.	0.0041	0.0041		Completed
7	Distribution of blanket among helpless and poor people of PAPs of NPGCL project	0.075	0.075		Completed
8	Contribution of Yagya, Rahra Village	0.004	0.004		Completed
9	Jal Jivan Hariyali, 2020	0.027	0.027		Completed
10	Organizing cricket/ahteletic games tournament for the villagers of the PAVs	0.05	0.05		Completed
11	COVID-19 welfare activies like Food distribution to villagers, Face mask distribution, Sanitaztion activities	0.28	0.28		Completed
12	Skill upgradation training (Agro based training) Vermi Composting and Bee keeping.	0.05	0.05		Completed
13	Skill development awareness camp	0.078	0.078		Completed
14	Blankets distribution to Poor villagers	0.10	0.10		Completed
15	Azadi Ka Amrit Mahotsav	0.028	0.028		Completed
16	100 nos. fire victim kits through Red Cross Society, Aurangabd	0.035	0.035		Completed
17	Food kits distribution to poorers in nearby villages during Covid	0.187	0.187		Completed
Total Rs. in Crore (E)		0.98	0.98		

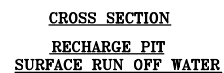
Sl. No	Activities completed	Aarded/A mount in CR	Expenditure incurred in cr.	Under Tenderin g	Remarks
Community Development Programme at Aurangabad District (10.40 crs.)					
1	Furnishing of public meeting hall in District office, Aurangabad.	0.066	0.066		Completed
2	Construction of Football Stadium at Nabinagar	0.41	0.41		Completed
3	Development work at Nabinagar Stadium	0.334	0	0	work in progress
4	Uplifment of Ramesh Chowk in Aurangabad.	0.44	0.44		Completed
5	Development of Cultural heritage at Deo Block.	2.35	2.35		Completed
6	Construction of Control room and Entrance gate at Deo through Deposit work, under CD activity of NPGC	0.48	0.48		Completed
7	Shifting of High Mast light from Ramesh Cowk , Aurangabad	0.05	0.05		Completed
8	Development of Gandhi Maidan, Aurangabad.	0.47	0.47		completed
9	Support during Chhath puja, Bihar Diwas, Sena Diwas, Surya Mahtosav, Goldcup and others Misc. works.	0.43	0.43		Completed.
10	Construction of Ground for Flag hosting at Gandhi Maidan Aurangabad	0.07	0.07		Completed.
11	Construction of Vehicle Shed and Aluminium Frame Work at DLAO, Aurangabad	0.13	0.13		completed
12	Installation of Inter-Telecome at Collectorate office, Aurangabad As per request of DM, Aurangabad	0.04	0.04		completed
13	Instllation of Wrestling Mat at Aurangabad	0.04	0.04		Completed
14	Installation of A.C. at Conectorate office, Aurangabad As per request of DM, Aurangabad	0.035	0.035		Completed
15	Boundarywall, Gate and other misc. works at Gandhi Maidan aurangabad	0.62	0.62		completed
16	Godrej furniture at District Collectorate	0.08	0.08		Completed
17	200 KV DG Set for Aurangabad hospital.	0.24	0.24		Completed
18	Wooden Badminton court	0.118	0.118		completed
19	Tentt and light during ChaitiChath 2022	0.0242	0.0242		completed
20	Tentt and light during Kartik Chath 2022	0.023	0.023		completed
21	Tentt and light during Kartik Chath 2023	0.03	0.03		completed
22	Sports- football gold cup 2022	0.005	0.005		completed
23	Sports- football gold cup 2023	0.005	0.005		completed
24	Ek Sam Sahido Ke NAM	0.005	0.005		completed
25	Misc. arrangement at Aurangabad community hall	0.0147	0.0147		completed
26	Manav Srinkhla at Aurangabad for Social awareness program	0.022	0.022		completed
27	Constrction of 1st floor community centre at Barem, boundray wall and stage under CD scheme	0.33	0.10		work in progress
28	Constn. of community hall at Badem	0.21	0.21		completed
29	Procurement on godrej visitor chair for public purposes in District Court, Aurangabad.			0.0355	under procurement
30	Construction of toilet complex for public uses at District Civil Court, Aurangabad .		0	0.15	under tendering
31	Various community development works in Surya Mandir DEO, Aurangabad on deposit basis.		0	0.37	under tendering
32	Drinking water facility in Umga Temple, Madanpur in Aurangabad district on deposit basis.		0	0.497	uner approval
33	Community hall in District Aurangabad.			1.50000	Under estimate prepration.
34	Assistance for Surya Mahotsav Deo, Aurangabad, through District Administration	0.10	0.10		completed
Tent and light durgung Chatti Chatth 2024		0.04	0.04		completed
Total Rs. in Crore (F)		7.2149	6.6479	2.5525	
INFRASTRUCTURE (Buniyadi Sanrachna) (34.98 Crs.)					
1	Construction of Road near by village & Repair Ankorha-Majhiwan Road	0.60	0.60		Completed
2	Construction of PCC Road at Kundwa to Indrapura	0.48	0.48		Completed
3	Construction of PCC Road to village Parsa	0.39	0.37		Completed
4	Construction of PCC Road to village Ankhora	0.405	0.405		Completed
5	Construction of PCC Road to village Meh	0.095	0.095		Completed
6	Madhe Community Ghat	0.167	0.167		Completed
7	Narari Khurd Community Ghat	0.20	0.2		Completed
8	Construction of PCC Road to village Madhe-Sivanpur	0.27	0.27		Completed
9	Construction of PCC Road to village Sasna	0.15	0.15		Completed
10	Construction of PCC Road to village Nararikala Village	0.21	0.21		Completed
11	Construction of PCC Road to village Prembiga Village	0.19	0.19		Completed

Sl. No	Activities completed	Aarded/A mount in CR	Expenditure incurred in cr.	Under Tenderin g	Remarks
12	Construction of temporary drain/culvert at Marar Sargara Village	0.069	0.069		Completed
13	Strengthening of Ankohra village apporoch Road	0.045	0.04		Completed
14	Construction of PCC Ground at community centre Shivanpur	0.032	0.032		Completed
15	Construction of PCC Road and drain to village Nararikhurd	0.2	0.20		Completed
16	Construction of PCC Road to village Benibigha	0.067	0.067		Completed
17	Construction of Road at Belauti Village	0.08	0.08		Completed
18	Construction of Road at Pathra Village	0.254	0.25		Completed
19	Construction of Road & Drain at Raghunathpur Village	0.30	0.30		Completed
20	Construction of Road at Rampur Village	0.36	0.30		Completed
21	Construction of Road & Drain at Saduri R C	0.15	0.15		Completed
22	Construction of PCC Road at Simra Dusad Village	0.266	0.266		completed
23	Construction of Power Sub Station in Kundwa Village	5.66	5.65		Completed
24	Supply Installation of 100 Nos. Solar Street Light System for Project Affected Villages of	0.265	0.265		Completed
25	Madhe Road Repairs	0.04	0.04		Completed
26	Reparing & maintenance of Road from Narari Khurd Thana to Gate no 01	0.04	0.04		Completed
27	Shifting of Chourahi Baba Religious place from Main Plant area.	0.201	0.201		Completed
28	Construction of road at Madar under CD activities of NPGC	0.504	0.504		completed
29	Construction of internal road & Drain at Saduri Village under CD Activities	0.233	0.22		completed
30	Construction of PCC Roads and drainage system PAVs , under CD activities (Kurwa village-Ash dyke area)	0.34	0.34		completed
31	Construction of Road at Khaira under CD activities of NPGC	0.45	0.45		completed
32	Construction of internal road at Meh under CD activities of NPGC	0.48	0.48		completed
33	Strengthening of Meh-Indrapuri Barrage road	1.48	1.05		completed
34	Construction of road at Rahara under CD activities of NPGC	0.594	0.59		completed
35	Construction of road at Kurwa under CD activities of NPGC	1.04	1.04		completed
36	Construction and development work of Ghat at village-Salaiya under CD activities for NPGC	0.24	0.24		completed
37	Construction of road & drains at Ankorha under CD activities of NPGC	1.78	1.35		90% completed
38	Construction of road on both side of boundary wall along approach road leading to plant under CD works	0.74	0.74		Completed
39	Construction of road at Majhiwan under CD activities of NPGC	0.61	0.154		work terminated & new contract under award
40	Construction of Roads at village-Sasna under CD activities for NPGC	0.68	0.52		work completed
41	Construction of road at Madhe under CD activities of NPGC	2.28	2.28		completed
42	Construction of road at Shivanpur under CD activities of NPGC	0.786	0.704		completed
43	Construction of Dariyabad Internal Road	0.215	0.215		completed & closed
44	Construction of PCC Road and drainage system PAVs under CD activities (Khaira-Dariyabad)	0.36	0.35		completed
45	Construction of Road at Amba under CD activities of NPGC	0.165	0.165		Completed.
46	Construction of Kurhwa link road connecting labour colony road(along north main plant boundary wall) and Kurhwa-Ankorha road) under CD works of NPGC	0.37	0.36		Completed
47	Construction of PCC road at Village -Indrapura under CD Activities for NPGC	0.10	0.10		Completed
48	Construction of Belauti-salaiya Cement concrete road	0.69	0.46		Under Progress90% completed
49	Contruction of road in village Benibigha	0.326	0.326	0	completed
50	construction of ghat in kudwan	0.64	0.28	0	work under progress
51	Constn. Of PCC road in village Simra Dusadh.	0.378	0.25	0.00	work under progress
52	Balance road in Marar	0.188	0.0393	0	work in progress
53	Balance Road & Main Drain at Sivanpur (1800Meter Road & 600 meter drain)	1.36	0		work in progress
54	Construction (Relocation) of Temple on Govt land in Saduri rehabilitation colony.	0.10	0.10		completed

Sl. No	Activities completed	Aarded/A mount in CR	Expenditure incurred in cr.	Under Tenderin g	Remarks
55	Construction of PCC Road & Drain at Ankorha Village under CD activities of NPGC	0.39	0.39		Completed
56	Construction of community shed in village Shivanpur.			-	under estimate preparation.
57	Construction of village road along the canal in Ankorha village.			0.40	under tendering
58	Construction of Community Shed in Baghi village.			0.40	under tendering
59	Construction of community hall in Ankorha.			0.50	under tendering
60	Levelling of Playground in Majhiawan village.			0.30	under tendering
61	Provision for Academic Laboratory in Shivanpur Govt. High School			0.10	under estimate preparation.
62	Pond development in Ankorha village.			0.50	under tendering
63	Installation of 15 nos. Deep Tube well at Project affected villages of NSTPS on deposit basis.	3.94	3.55	-	Work completed
64	Construction of Boundary wall of HSS Playground Shivanpur, under CD activities of NPGC	0.121	0.121		Work completed
65	Construction of Toilet & Sport Store in HSS Shivanpur Playground under CD works of NPGC	0.5	0.5		Work completed
66	Construction of Boundary wall for Higher Secondary School Shivanpur, under CD scheme	0.097	0.097		Work completed
67	Development of Playground of marked land of HSS shivanpur, under CD activities of NPGC	0.216	0.216		Work completed
68	Construction of Stage at Play Ground of HSS Shivanpur under CD activities of NPGC	0.09	0.086		Work completed
69	Construction of Higher Secondary School at Shivanpur	1.2	1.2		Work completed
70	Earth filling at HSS Shivanpur	0.14	0.142		Work completed
71	Internal Electrification of Higher Secondary School at Shivanpur, under CD activities of NPGC	0.135	0.135		Work completed
72	Construction of Small Worship Area	0.0599	0.06		Work completed
73	Water proofing Treatment at HSS Shivanpur Building	0.12	0.11		Work completed
74	Construction of Balance work for HSS Shivanpur	0.36	0.28		work completed
75	Construction of Cycle stand at Govt. high school Shivanpur	0.04	0.04		work completed
Total Amount (G)		35.72	31.33	2.20	
Total Amount in Cr. (A+B+C+D+E+F+G)		51.73	45.56	7.4125	

Total 59.1467





PROJECT		NABINAGAR SUPER THERMAL POWER PROJECT (3X660MW)											
TITLE		RAIN WATER HARVESTING											
REVNO.	DESCRIPTION	DRAWN	DESIGN	CHKD.	CLEARED BY			APPRO	DATE	SIZE	SCALE	DRG. NO.	REV. NO.
A	PRELIMINARY								15.01.21	A3	NTS	0370-FES-RWH-A-001	B
B	UPDATED ONLINE WITH CGWB APPROVAL DATED 21.01.2022	ABULKAR NARAYAN							31.05.21				



GPS Map Camera



Aurangabad, Bihar, India

Unnamed Road, Bihar 824101, India

Lat 24.780298°

Long 84.16501°

25/05/24 04:30 PM GMT +05:30



GPS Map Camera

Raghunathpur, Bihar, India

Unnamed Road, Raghunathpur, Bihar 824101, India

Lat 24.777084°

Long 84.163962°

25/05/24 04:37 PM GMT +05:30



Google

प्रारूप XV
(प्रथम अनुसूची के अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भण्डारण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.): P/HQ/BI/15/1882(P395735)

फीस रूप (Fee Rs.) 50000/- per year

M/s. Nabinagar Super Thermal Power Project, Shivanpur, P.O.Ankorha, District: AURANGABAD, State: Bihar, PIN: 824303 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 7854.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/BI/15/1882(P395735) तारीख 06/07/2017 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Nabinagar Super Thermal Power Project, Shivanpur, P.O.Ankorha, District: AURANGABAD, State: Bihar, PIN: 824303 valid only for the importation and storage of 7854.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/BI/15/1882(P395735) dated 06/07/2017 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2026 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2026

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	7854.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	7854.00 KL

July 6, 2017

For Chief Controller of Explosives
HQ, Nagpur

1). Amendment dated - 16/10/2018

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टताएं संलग्न अनुमोदित नक्शों में दिखाई गई हैं Khasra No: Thana No.01, Plot No. 454,457,458,460, Thana No.03, Plot No.170,171,172,173, nil, Mouza-Sasna & Mouza Angaraha, Taluka: Nabinagar, District: AURANGABAD, State: Bihar, PIN: 824303 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 4 Above Ground tank(s) for CLASS C, सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Khasra No: Thana No.01, Plot No. 454,457,458,460, Thana No.03, Plot No.170,171,172,173, nil, Mouza-Sasna & Mouza Angaraha, Taluka: Nabinagar, District: AURANGABAD, State: Bihar, PIN: 824303 and consists of 4 Above Ground tank(s) for CLASS C, together with connected facilities.

अनुज्ञप्ति संख्या-(Licence No.) P/HQ/BI/15/1882 (P395735)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

<p>पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।</p> <p>This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.</p>	<p>नवीकरण की तारीख Date of Renewal</p>	<p>समाप्ति की तारीख Date of Expiry of license</p>	<p>अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.</p>
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यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.



Test Report

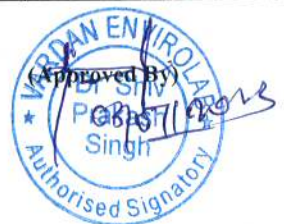
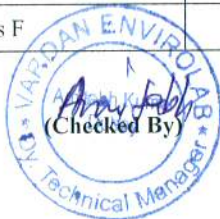
Sample Number: VEL/GW/01
Name & Address of the Project: M/s Nabinagar Super Thermal Power Station,
P.O.-Aditi Nagar, Aurangabad, Bihar-82430,
India

Report No.: VEL/GW/2306210001
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated
14.06.2022

Sample Description: Ground Water
Sample Location: Near Auxiliary Boiler
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 18/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.40	--	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	28.0	°C	--	--
3.	Electrical Conductivity	IS: 3025 (P-14)	776	µS/cm	--	--
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	492.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	12.00	mg/L	--	--
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.5	mg/L	--	--
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	--	--
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	--	--
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	--	--
11.	M-Alkalinity	IS: 3025 (P-51)	160.6	mg/L	--	--
12.	Calcium Hardness	IS: 3025 (P-40)	165.66	mg/L	--	--
13.	Magnesium Hardness	APHA, 3500 Mg B	89.83	mg/L	--	--
14.	Total Hardness	IS: 3025 (P-21)	255.49	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	16.6	mg/L	--	--
16.	Potassium	IS: 3025 (P-45)	2.0	mg/L	--	--
17.	Sulphate as SO ₄	IS: 3025 (P-24)	585	mg/L	200	400
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	13.40	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.60	mg/L	1.0	1.5



Terms & Conditions

- The results reported relate only to the samples tested. In case sample is not drawn the results apply to the sample as received.
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- To confirm the authenticity of this certificate of analysis, please contact us through email at lab@vardan.co.in
- Laboratory is not responsible for the authenticity of photocopied test report. The test samples will be retained only for specific period
- The report no. with Suffix A-Amended Report.
- This test report will not be used for publicity or advertising or media purpose without prior written permission on the laboratory.
- Giving opinions does not imply endorsement of the tested sample by the lab. Under no circumstances, the lab accepts any liability caused by the use or misuse of the test report.





Test Report

Sample Number: VEL/GW/01

Report No.: VEL/GW/2306210001

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	67.86	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	15.40	mg/L	--	--
22.	Colloidal Silica	IS: 3025 (P-35)	1.16	mg/L	--	--
23.	Total Organic Carbon	IS 3025 (P-69)	0.25	mg/L	--	--
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	0.34	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	--	--
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	8	MPN/100ml	--	--
40.	E. coli	IS 15185:2016	Absent	Per 100ml	Shall not be detectable in any 100 ml sample	

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

End of Report



3.7.20



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- The report no. with Suffix A-Amended Report.
- This test report will not be used for publicity or advertising or media purpose without prior written permission on the laboratory.
- Giving opinions does not imply endorsement of the tested sample by the lab. Under no circumstances, the lab accepts any liability caused by the use or misuse of the test report.





Test Report

Sample Number: VEL/GW/02
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210002
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 18/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Ground Water
Sample Location: Main Bazar Area
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.20	--	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	27.0	°C	--	--
3.	Electrical Conductivity	IS: 3025 (P-14)	825	µS/cm	--	--
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	502.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	7.00	mg/L	--	--
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.6	mg/L	--	--
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	--	--
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	--	--
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	--	--
11.	M-Alkalinity	IS: 3025 (P-51)	315.55	mg/L	--	--
12.	Calcium Hardness	IS: 3025 (P-40)	285.80	mg/L	--	--
13.	Magnesium Hardness	APHA, 3500 Mg B	80.05	mg/L	--	--
14.	Total Hardness	IS: 3025 (P-21)	365.85	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	14.2	mg/L	--	--
16.	Potassium	IS: 3025 (P-45)	1.2	mg/L	--	--
17.	Sulphate as SO ₄	IS: 3025 (P-24)	62.75	mg/L	200	400
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	14.28	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.56	mg/L	1.0	1.5



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Test Report

Sample Number: VEL/GW/02

Report No.: VEL/GW/2306210002

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	49.35	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	26.45	mg/L	--	--
22.	Colloidal Silica	IS: 3025 (P-35)	1.86	mg/L	--	--
23.	Total Organic Carbon	IS 3025 (P-69)	0.20	mg/L	--	--
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	--	--
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	12	MPN/100ml	--	--
40.	E. coli	IS 15185:2016	Absent	Per 100ml	Shall not be detectable in any 100 ml sample	

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

End of Report



3.7.2021



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Test Report

Sample Number: VEL/GW/03
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210003
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 18/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Ground Water
Sample Location: Village-Sasana
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.46	--	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	25.8	°C	--	--
3.	Electrical Conductivity	IS: 3025 (P-14)	515	µS/cm	--	--
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	315.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	7.00	mg/L	--	--
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.8	mg/L	--	--
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	--	--
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	--	--
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	--	--
11.	M-Alkalinity	IS: 3025 (P-51)	225.85	mg/L	--	--
12.	Calcium Hardness	IS: 3025 (P-40)	136.35	mg/L	--	--
13.	Magnesium Hardness	APHA, 3500 Mg B	49.02	mg/L	--	--
14.	Total Hardness	IS: 3025 (P-21)	185.55	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	46.2	mg/L	--	--
16.	Potassium	IS: 3025 (P-45)	1.6	mg/L	--	--
17.	Sulphate as SO ₄	IS: 3025 (P-24)	45.15	mg/L	200	400
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	5.75	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.42	mg/L	1.0	1.5



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Test Report

Sample Number: VEL/GW/03

Report No.: VEL/GW/2306210003

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	35.12	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	22.55	mg/L	--	--
22.	Colloidal Silica	IS: 3025 (P-35)	5.20	mg/L	--	--
23.	Total Organic Carbon	IS 3025 (P-69)	0.26	mg/L	--	--
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	--	--
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	11	MPN/100ml	--	--
40.	E. coli	IS 15185:2016	Absent	Per 100ml	Shall not be detectable in any 100 ml sample	

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

End of Report



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Test Report

Sample Number: VEL/GW/04
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210004
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 18/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Ground Water
Sample Location: Switch Yard
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.62	--	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	26.7	°C	--	--
3.	Electrical Conductivity	IS: 3025 (P-14)	930	µS/cm	--	--
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	605.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	BLQ(LOQ-1.0)	mg/L	--	--
7.	Dissolved Oxygen	IS: 3025 (P-38)	7.1	mg/L	--	--
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	--	--
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	--	--
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	--	--
11.	M-Alkalinity	IS: 3025 (P-51)	305.4	mg/L	--	--
12.	Calcium Hardness	IS: 3025 (P-40)	328.69	mg/L	--	--
13.	Magnesium Hardness	APHA, 3500 Mg B	132.16	mg/L	--	--
14.	Total Hardness	IS: 3025 (P-21)	460.85	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	37.9	mg/L	--	--
16.	Potassium	IS: 3025 (P-45)	4.0	mg/L	--	--
17.	Sulphate as SO ₄	IS: 3025 (P-24)	76.4	mg/L	200	400
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	14.82	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.42	mg/L	1.0	1.5



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Test Report

Sample Number: VEL/NPGCS/GW/04

Report No.: VEL/GW/2306210004

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	125.90	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	23.50	mg/L	--	--
22.	Colloidal Silica	IS: 3025 (P-35)	7.14	mg/L	--	--
23.	Total Organic Carbon	IS 3025 (P-69)	0.24	mg/L	--	--
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	--	--
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	14	MPN/100ml	--	--
40.	E. coli	IS 15185:2016	Absent	Per 100ml	Shall not be detectable in any 100 ml sample	

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

End of Report



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Test Report

Sample Number: VEL/GW/05
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210005
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Sample Description: Ground Water
Sample Location: Village-KHAIRA
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 18/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.20	--	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	27.0	°C	--	--
3.	Electrical Conductivity	IS: 3025 (P-14)	425	µS/cm	--	--
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	315.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	BLQ(LOQ-1.0)	mg/L	--	--
7.	Dissolved Oxygen	IS: 3025 (P-38)	7.2	mg/L	--	--
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	--	--
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	--	--
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	--	--
11.	M-Alkalinity	IS: 3025 (P-51)	185.15	mg/L	--	--
12.	Calcium Hardness	IS: 3025 (P-40)	136.55	mg/L	--	--
13.	Magnesium Hardness	APHA, 3500 Mg B	52.73	mg/L	--	--
14.	Total Hardness	IS: 3025 (P-21)	189.28	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	12.2	mg/L	--	--
16.	Potassium	IS: 3025 (P-45)	1.5	mg/L	--	--
17.	Sulphate as SO ₄	IS: 3025 (P-24)	16.6	mg/L	200	400
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	4.8	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	BLQ(LOQ-0.2)	mg/L	1.0	1.5



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Test Report

Sample Number: VEL/GW/05

Report No.: VEL/GW/2306210005

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	34.40	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	5.15	mg/L	--	--
22.	Colloidal Silica	IS: 3025 (P-35)	0.70	mg/L	--	--
23.	Total Organic Carbon	IS 3025 (P-69)	0.22	mg/L	--	--
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	--	--
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	<2	MPN/100ml	--	--
40.	E. coli	IS 15185:2016	Absent	Per 100ml	Shall not be detectable in any 100 ml sample	

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

End of Report



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Test Report

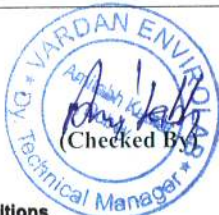
Sample Number: VEL/GW/06
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210006
Format No.: 7.8 F-03k
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 18/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Ground Water
Sample Location: Village-Shivanpur (Pota Kevin)
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.21	--	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	27.6	°C	--	--
3.	Electrical Conductivity	IS: 3025 (P-14)	982	µS/cm	--	--
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	625.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	22.00	mg/L	--	--
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.2	mg/L	--	--
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	--	--
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	--	--
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	--	--
11.	M-Alkalinity	IS: 3025 (P-51)	310.69	mg/L	--	--
12.	Calcium Hardness	IS: 3025 (P-40)	235.16	mg/L	--	--
13.	Magnesium Hardness	APHA, 3500 Mg B	76.24	mg/L	--	--
14.	Total Hardness	IS: 3025 (P-21)	311.40	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	12.4	mg/L	--	--
16.	Potassium	IS: 3025 (P-45)	1.0	mg/L	--	--
17.	Sulphate as SO ₄	IS: 3025 (P-24)	32.36	mg/L	200	400
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	7.0	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.62	mg/L	1.0	1.5



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VEL/E - Page 2 of 2 P N 6 0 8 7 9



Test Report

Sample Number: VEL/GW/06

Report No.: VEL/GW/2306210006

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	32.12	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	16.15	mg/L	--	--
22.	Colloidal Silica	IS: 3025 (P-35)	5.66	mg/L	--	--
23.	Total Organic Carbon	IS 3025 (P-69)	0.45	mg/L	--	--
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	--	--
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	13	MPN/100ml	--	--
40.	E. coli	IS 15185:2016	Absent	Per 100ml	Shall not be detectable in any 100 ml sample	

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

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Test Report

Sample Number: VEL/GW/07
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210007
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 18/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Ground Water
Sample Location: STP Township
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.62	--	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	27.2	°C	--	--
3.	Electrical Conductivity	IS: 3025 (P-14)	810	µS/cm	--	--
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	470.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	5.00	mg/L	--	--
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.9	mg/L	--	--
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	--	--
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	--	--
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	--	--
11.	M-Alkalinity	IS: 3025 (P-51)	257.00	mg/L	--	--
12.	Calcium Hardness	IS: 3025 (P-40)	198.25	mg/L	--	--
13.	Magnesium Hardness	APHA, 3500 Mg B	54.06	mg/L	--	--
14.	Total Hardness	IS: 3025 (P-21)	252.31	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	36.7	mg/L	--	--
16.	Potassium	IS: 3025 (P-45)	2.5	mg/L	--	--
17.	Sulphate as SO ₄	IS: 3025 (P-24)	65.49	mg/L	200	400
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	16.15	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.64	mg/L	1.0	1.5



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Test Report

Sample Number: VEL/GW/07

Report No.: VEL/GW/2306210007

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	32.36	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	26.90	mg/L	--	--
22.	Colloidal Silica	IS: 3025 (P-35)	3.20	mg/L	--	--
23.	Total Organic Carbon	IS 3025 (P-69)	0.45	mg/L	--	--
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	--	--
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	--	--
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	14	MPN/100ml	--	--
40.	E. coli	IS 15185:2016	Absent	Per 100ml	Shall not be detectable in any 100 ml sample	

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

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VEL/E- Page 2 of 2 P N 5 0 5 8 2



Test Report

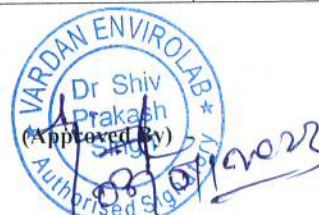
Sample Number: VEL/SW/08
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210008
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 17/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Surface Water
Sample Location: Village-MADHE
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.20	--
2.	Temperature	IS:3025 (P-9)	26.1	°C
3.	Electrical Conductivity	IS: 3025 (P-14)	380	µS/cm
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU
5.	Total Dissolved Solids	IS: 3025 (P-16)	233.0	mg/L
6.	Total Suspended Solids	IS: 3025 (P-17)	BLQ(LOQ-2.0)	mg/L
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.9	mg/L
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	4.06	mg/L
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	9.85	mg/L
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L
11.	M-Alkalinity	IS: 3025 (P-51)	97.19	mg/L
12.	Calcium Hardness	IS: 3025 (P-40)	80.98	mg/L
13.	Magnesium Hardness	APHA, 3500 Mg B	38.61	mg/L
14.	Total Hardness	IS: 3025 (P-21)	119.59	mg/L
15.	Sodium	IS: 3025 (P-45)	10.6	mg/L
16.	Potassium	IS: 3025 (P-45)	1.0	mg/L
17.	Sulphate as SO ₄	IS: 3025 (P-24)	16.76	mg/L
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	5.0	mg/L
19.	Fluoride as F	APHA 4500 F D	BLQ(LOQ-0.2)	mg/L



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Test Report

Sample Number: VEL/SW/08			Report No.: VEL/SW/2306210008	
S. No.	Parameter	Test-Method	Result	Unit
20.	Chloride as Cl	IS: 3025 (P-32)	30.45	mg/L
21.	Reactive Silica	IS: 3025 (P-35)	16.95	mg/L
22.	Colloidal Silica	IS: 3025 (P-35)	3.15	mg/L
23.	Total Organic Carbon	IS 3025 (P-69)	0.26	mg/L
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	0.22	mg/L
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
39.	Total coliform	IS 1622	34	MPN/100ml
40.	E. coli	IS 15185:2016	Absent	Per 100ml

Note:-BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

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VEL/E - Page 2 of 2 P N 0 0 8 4



Test Report

Sample Number: VEL/SW/09
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210009
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 17/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Surface Water
Sample Location: Plant Effluent
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.80	--
2.	Temperature	IS:3025 (P-9)	27.2	°C
3.	Electrical Conductivity	IS: 3025 (P-14)	666	µS/cm
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU
5.	Total Dissolved Solids	IS: 3025 (P-16)	310.00	mg/L
6.	Total Suspended Solids	IS: 3025 (P-17)	17.00	mg/L
7.	Dissolved Oxygen	IS: 3025 (P-38)	5.3	mg/L
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	7.65	mg/L
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	26.69	mg/L
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L
11.	M-Alkalinity	IS: 3025 (P-51)	154.75	mg/L
12.	Calcium Hardness	IS: 3025 (P-40)	145.29	mg/L
13.	Magnesium Hardness	APHA, 3500 Mg B	80.02	mg/L
14.	Total Hardness	IS: 3025 (P-21)	225.49	mg/L
15.	Sodium	IS: 3025 (P-45)	40.0	mg/L
16.	Potassium	IS: 3025 (P-45)	3.6	mg/L
17.	Sulphate as SO ₄	IS: 3025 (P-24)	26.50	mg/L
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	5.02	mg/L
19.	Fluoride as F	APHA 4500 F D	0.40	mg/L



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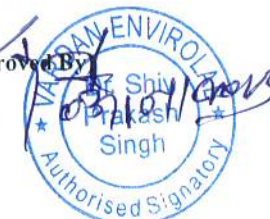


Test Report

Sample Number: VEL/SW/09			Report No.: VEL/SW/2306210009	
S. No.	Parameter	Test-Method	Result	Unit
20.	Chloride as Cl	IS: 3025 (P-32)	15.80	mg/L
21.	Reactive Silica	IS: 3025 (P-35)	12.84	mg/L
22.	Colloidal Silica	IS: 3025 (P-35)	5.15	mg/L
23.	Total Organic Carbon	IS 3025 (P-69)	0.12	mg/L
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
39.	Total coliform	IS 1622	50	MPN/100ml
40.	E. coli	IS 15185:2016	Absent	Per 100ml

Note-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

End of Report



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Test Report

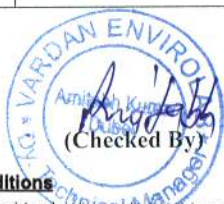
Sample Number: VEL/SW/10
Name & Address of the Project: M/s Nabinagar Power Generating Company (NPGC)
Shivanpur, P.O.-Ankhora Railway Station, Bihar
Aurangabad, Bihar-824303, India

Report No.: VEL/GW/2306210010
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022

Reporting Date: 03/07/2023
Period of Analysis: 21/06/2023 to 03/07/2023
Receipt Date: 21/06/2023
Sampling Date: 17/06/2023
Sampling Quantity: 2.0 Ltr.
Sampling Type: Grab
Parameter Required: As per work order

Sample Description: Surface Water
Sample Location: Raw Water Reservoir
Sample Collected by: Vardan EnviroLab Representative
Preservation: Refrigerated
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.39	--
2.	Temperature	IS:3025 (P-9)	27.3	°C
3.	Electrical Conductivity	IS: 3025 (P-14)	323	µS/cm
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU
5.	Total Dissolved Solids	IS: 3025 (P-16)	194.00	mg/L
6.	Total Suspended Solids	IS: 3025 (P-17)	8.00	mg/L
7.	Dissolved Oxygen	IS: 3025 (P-38)	8.5	mg/L
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	5.79	mg/L
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	22.69	mg/L
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L
11.	M-Alkalinity	IS: 3025 (P-51)	137.76	mg/L
12.	Calcium Hardness	IS: 3025 (P-40)	76.35	mg/L
13.	Magnesium Hardness	APHA, 3500 Mg B	39.01	mg/L
14.	Total Hardness	IS: 3025 (P-21)	115.45	mg/L
15.	Sodium	IS: 3025 (P-45)	14.4	mg/L
16.	Potassium	IS: 3025 (P-45)	1.3	mg/L
17.	Sulphate as SO ₄	IS: 3025 (P-24)	7.0	mg/L
18.	Nitrate as NO ₃	IS 3025 (Part -34), Chromotropic Method	5.9	mg/L
19.	Fluoride as F	APHA 4500 F D	0.42	mg/L



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Test Report

Sample Number: VEL/SW/10			Report No.: VEL/SW/2303280010	
S. No.	Parameter	Test-Method	Result	Unit
20.	Chloride as Cl	IS: 3025 (P-32)	16.80	mg/L
21.	Reactive Silica	IS: 3025 (P-35)	10.94	mg/L
22.	Colloidal Silica	IS: 3025 (P-35)	3.0	mg/L
23.	Total Organic Carbon	IS 3025 (P-69)	0.25	mg/L
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No. -01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
33.	Chromium as Cr ³⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L
34.	Chromium as Cr ⁶⁺	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
39.	Total coliform	IS 1622	40	MPN/100ml
40.	E. coli	IS 15185:2016	Absent	Per 100ml

Note:-*BLQ-Below Limit of Quantification, LOQ-Limit of Quantification, STP:- Standard Testing Procedure

End of Report



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VEL/E- Page 2 of 2 P N 50588







सार्वजनिक शौचालय
PUBLIC TOILET →
स्नानगृह / WASH ROOM



narzo Shot on realme narzo 30 5G



Test Report

Sample Number: VEL/N/01
Name & Address of the Project: M/s Nabinagar Super Thermal Power Station,
P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

Report No.: VEL/N/2306300001
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022
Reporting Date: 04/07/2023
Receipt Date: 30/06/2023

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human, Vehicular & Other Plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Locations	Date of Sampling	Test Result dB (A)					
			Day Time			Night Time		
			(L _{Max})	(L _{Min})	(L _{eq})	(L _{Max})	(L _{Min})	(L _{eq})
1.	Turbine Area	26/06/2023-27/06/2023	68.5	52.2	64.20	65.2	42.0	52.20
2.	Compressor Area	26/06/2023-27/06/2023	62.6	54.9	57.24	60.4	40.0	54.75
3.	DG Area	26/06/2023-27/06/2023	64.9	50.4	62.49	61.6	44.6	55.90
4.	Plant Area	26/06/2023-27/06/2023	60.0	50.6	62.45	58.6	41.2	51.86
5.	Outside Plant Area	26/06/2023-27/06/2023	70.4	56.7	68.22	62.9	43.8	56.28
CPCB Limits in dB(A*) Leq (Industrial Area)			75.0			70.0		

Note- *A "decibel" is a unit in which noise is measured.

End of Report



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Test Report

Sample Number: VEL/N/01
Name & Address of the Project: M/s Nabinagar Super Thermal Power Station,
P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

Report No.: VEL/N/2309300001
Format No.: 7.8 F-03
Party Reference No.: 4000280838-057-2035 Dated 14.06.2022
Reporting Date: 03/10/2023
Receipt Date: 30/09/2023

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

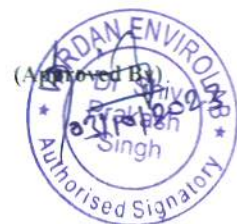
Sample collected by	: Vardan EnviroLab Representative
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittent Rain
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human, Vehicular & Other Plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Locations	Date of Sampling	Test Result dB (A)					
			Day Time			Night Time		
			(L _{Max})	(L _{Min})	(L _{eq})	(L _{Max})	(L _{Min})	(L _{eq})
1.	Turbine Area	27/09/2023-28/09/2023	71.4	50.3	66.78	64.2	41.8	49.70
2.	Compressor Area	27/09/2023-28/09/2023	68.3	56.7	60.26	62.8	42.4	51.68
3.	DG Area	27/09/2023-28/09/2023	65.7	52.7	60.12	63.9	46.7	51.87
4.	Plant Area	27/09/2023-28/09/2023	62.3	48.6	54.76	56.3	43.9	48.6
5.	Outside Plant Area	27/09/2023-28/09/2023	72.8	54.1	62.16	63.8	44.2	50.1
CPCB Limits in dB(A*) Leq (Industrial Area)			75.0			70.0		

Note- *A "decibel" is a unit in which noise is measured.

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AAQM Data (Oct-2023 to Mar-2024)
Annexure - E

Parameters →		PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	O ₃	NH ₃
UOM →		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Month	Location	(24-Hours. Average)	(24-Hours. Average)	(24-Hours. Average)	(24-Hours. Average)	(1-Hour. Average)	(1-Hours. Average)	(24-Hours. Average)
Applicable Norms** →		100	60	80	80	4	100	400
Oct-23	H-Blocck	62.00	41.52	11.73	27.13	0.77	32.85	NA
	Admn. Building	53.42	32.48	12.08	25.74	0.71	30.51	NA
	RWPH	56.49	32.55	23.51	32.23	0.78	29.6	NA
	Shivanpur Gate	53.50	31.91	11.29	26.52	0.67	33.99	NA
Nov-23	H-Blocck	67.31	45.31	13.12	25.70	0.80	34.27	BDL
	Admn. Building	67.24	43.92	12.67	26.95	0.68	30.15	BDL
	RWPH	67.38	44.87	23.23	30.85	0.76	30.85	BDL
	Shivanpur Gate	67.36	44.98	10.62	26.19	0.67	33.21	BDL
Dec-23	H-Blocck	66.18	45.07	13.69	25.88	0.79	33.55	BDL
	Admn. Building	66.41	45.29	13.3	27.79	0.69	32.39	BDL
	RWPH	66.03	45.61	23.39	31.03	0.76	30.78	BDL
	Shivanpur Gate	73.2	43.63	12.57	25.59	0.70	33.12	BDL
Jan-24	H-Blocck	64.04	44.23	13.50	24.88	0.76	34.73	BDL
	Admn. Building	63.63	44.79	13.68	26.91	0.60	32.08	BDL
	RWPH	63.70	43.96	24.21	31.19	0.78	31.01	BDL
	Shivanpur Gate	62.27	44.16	10.57	23.96	0.70	33.20	BDL
Feb-24	H-Blocck	63.38	43.59	12.70	24.80	0.75	34.05	BDL
	Admn. Building	62.98	43.73	13.11	26.29	0.69	31.91	BDL
	RWPH	62.98	42.87	23.77	30.47	0.76	30.91	BDL
	Shivanpur Gate	62.73	43.34	10.04	23.51	0.69	32.88	BDL
Mar-24	H-Blocck	62.72	41.81	12.88	25.98	0.78	34.08	BDL
	Admn. Building	55.15	33.07	11.83	25.43	0.67	30.38	BDL
	RWPH	57.16	32.15	22.46	30.95	0.78	29.21	BDL
	Shivanpur Gate	52.92	33.43	10.88	26.66	0.65	31.93	BDL

* BELOW DETECTION LIMIT

** (MoEF&CC NOTIFICATION DATED 16th NOVEMBER, 2009)

नवबिहार राइम्स
03 जनवरी - 2011



नबीनगर पावर जेनरेटिंग कम्पनी प्रा० लिमिटेड
(एनटीपीसी एवम् बिहार राज्य विद्युत बोर्ड का एक संयुक्त उपक्रम)

नबीनगर सुपर थर्मल पावर प्रोजेक्ट आम सूचना

सभी संबंधित लोगों की जानकारी के लिए सूचित किया जाता है कि 'नबीनगर सुपर थर्मल पावर प्रोजेक्ट' (3 x 660 मेगावाट) ग्राम-मझियान, तालुका-नबीनगर, जिला-औरंगाबाद बिहार के स्थापना को पर्यावरण एवम् वन मंत्रालय, भारत सरकार द्वारा 27 दिसम्बर 2010 को पर्यावरणीय स्वीकृति (अनापत्ति) दे दी गई है। पर्यावरणीय स्वीकृति/अनापत्ति पत्र की प्रति बिहार राज्य प्रदूषण नियंत्रण पर्षद/समिति के पास उपलब्ध है तथा इसे पर्यावरण एवं वन मंत्रालय के वेबसाइट <http://envfor.nic.in> पर भी देखा जा सकता है।

मुख्य कार्यकारी अधिकारी

नबीनगर पावर जेनरेटिंग कम्पनी प्रा० लिमिटेड
नबीनगर सुपर थर्मल पावर प्रोजेक्ट
साईट आफिस : बी. एस ई बी कालोनी,
सोननगर, जिला-औरंगाबाद
(बिहार)

जल संरक्षण-जीवन संरक्षण

न की अधियों को पटना रेलवे स्टेशन में फोटो-सुपरआइ

विश्वकर्मक डा. बी. के. सिंह ने एक जानकारी देते हुए बताया कि सुविधा में परिवर्तन दृष्ट दारा जिला मुख्यालय के जमाइया भौड़ के पास पारा मेडिकल कॉलेज की स्थापना से संबंधित तैयारी पूरे कर ली गयी है। उन्होंने बताया कि आगामी 14 जनवरी के बाद पारा मेडिकल कॉलेज

एसआईटी करे बोफोर्स घोटाले की जांच

नई दिल्ली। भाजपा ने सीबीआई को कड़ी आलोचना करते हुए कहा कि आयरकर अपील की न्यायाधिकरण के एक हालिया फैसले में बोफोर्स तोष खरीद मामले में ओतावियो क्वान्त्रोचिव और विन ब्रड्डा को दलाली दिए जाने का खुलासा होने के बाद इस घोटाले की विशेष जांच दल से तपतीश कराए जाने की जरूरत है। राज्यसभा में बिपक्ष के नेता अरुण जेटली ने यहां संवाददाताओं से कहा, कि आयरकर अपील की न्यायाधिकरण ने कर भुगतान के एक मामले में 31 दिसंबर को दिए अपने फैसले में कहा है कि रक्षा सौदों में किसी भी बिचौलिया को दलाली नहीं देने की सरकार की नीति का बोफोर्स मामले में स्पष्ट उल्लंघन हुआ।

शुरू परमेश्वरी देवी के निधन पर शोकसभा का आयोजन

विद्वान लेने की प्रक्रिया शुरू की है जो आगामी 5 जनवरी तक कार किये जायेंगे। उन्होंने बताया कि इस क्रम में सात श्रवण बाधित, सात मानसिक निःशक्तता, सात दृष्टि निःशक्तता, दो-दो ऑडियोलॉजिस्ट एवं आकुपेशनल थेरापिस्ट तथा एक-एक ऑर्थोटिक प्रोस्थेटिक इंजीनियर एवं फिजियोथेरापिस्ट की नी की जायेगी।

नियमों की धज्जियां

ने नव वर्ष के पहले दिन नेपाल में अच्छे काम के लिए नहीं बल्कि नुरे केद्वार विधानसभा क्षेत्र से निर्वाचित विधायक सरफराज आलम परिवार की बैराज के निकट पिकनिक स्थल, गए थे। उनके साथ उनके सहायक व मंत्री मुहम्मद तस्लीमूद्दीन के बेटे सवार होकर गए थे। प्रोटोकाल के में सहायक अंगरक्षक लेकर नहीं जा पर लागू होता है।

कार्यालय संवाददाता

औरंगाबाद। जनता दल (यू) के जिलाध्यक्ष विधनाथ सिंह की अध्यक्षता में मुख्यमंत्री नीतीश कुमार की मां परमेश्वरी देवी के निधन पर जिला जदयू कार्यालय में एक शोक शभा का आयोजन किया गया। जिलाध्यक्ष श्री सिंह ने परमेश्वरी देवी के निधन पर गहरा शोक प्रकट करते हुये ईश्वर से मुख्यमंत्री को सहस्र प्रदान करने की कामना की।

प्रदेश जनता दल (यू) के उपाध्यक्ष डॉ. शंकर दयाल सिंह ने परमेश्वरी देवी के निधन पर गहरा शोक प्रकट करते हुए धैर्य की इस घड़ी में मुख्यमंत्री नीतीश कुमार को शक्ति प्रदान करने की कामना ईश्वर से की है। शोक प्रकट करने वालों में जिला प्रवक्ता तेजेंद्र कुमार सिंह, डॉ. ज्ञानेश्वर प्रसाद सिंह, कुसुम देवी, शांति देवी, रामकेवल सिंह, अर्जुन

सिंह, अमिताभ कुमार सिंह उर्फ रिकु सिंह, दीपक कुमार सिंह, अनिल कुमार यादव, मिथिलेश मेहता, सुनील कुमार सिंह, विनोद कुमार पटेल, देव प्रमुख प्रमोद कुमार सिंह, विनोद कुमार सिंह, जहीर अहसन आजाद, केदार यादव, जयप्रकाश सिंह, उदय पटेल आदि शामिल हैं।

बैंकों की तरह डाकघर में भी लगेंगे एटीएम

वार्ता

समस्तीपुर। ऑटोमेटेड टेलर मशीन (एटीएम) के माध्यम से रुपये की निकासी में होने वाली सुविधाओं को ध्यान में रखते हुए अब बैंकों की तर्ज पर डाकघर भी एटीएम की सेवा शुरू करने जा रही है और इसके तहत बिहार के समस्तीपुर जिले में डाकघर विभाग द्वारा एटीएम मशीन लगायी जायेगी।

समस्तीपुर स्थित प्रधान डाकघर के जन संपर्क निरीक्षक शैलेश कुमार सिंह ने आज यहां बताया कि अब बैंकों की तरह डाक विभाग ने भी अपने उपभोक्ताओं को

आधुनिक सुविधाएँ देने के लिए कई कार्ययोजनाएँ तैयार की है।

उन्होंने बताया कि एटीएम सुविधा को समस्तीपुर के प्रधान डाकघर समेत जिले के ग्रामीण शाखाओं में चालू किया जायेगा और मार्च 2011 तक इस कार्य को पूरा कर लिया जायेगा। उन्होंने बताया कि डाकघर का एटीएम भी बैंकों के एटीएम के तर्ज पर काम करेगा और डाक घर के खाताधारी अपने रुपये की निकासी इस मशीन द्वारा आसानी से कर सकेंगे जिससे उन्हें लंबी-लंबी कतारों में खड़े होने से छुटकारा मिलेगा।

यों से बहुत पीछे हैं नीतीश

ई दिल्ली में संसद विहार ब्यूरो दिया है, जिसका इसके अलावा उनके पास एक कंप्यूटर और श्री ने भारतीय स्टेट बैंक से एक लाख 93 हजार रखा है। नीतीश के पुत्र ख 76 हजार रुपये नकद, में जमा है और उन्होंने नगर की विभिन्न योजनाओं त्त के पास बंखियारपुर में 34 लाख रुपये मूल्य की 8.27 लाख रुपये के भूमि के मालिक हैं। इसके धानी पटना में 1.31 लाख मरत है। मंत्री सुशील कुमार मोदी 56 लाख रुपये जमा रखे रूप में 1.83 लाख रुपये

का निवेश और एलआईसी तथा एनएससी में 1.89 रुपये का निवेश मोदी ने किया है। मोदी और उनकी पत्नी के नाम पर संयुक्त रूप से उत्तर प्रदेश के गाजियाबाद और गौतमबुद्धनगर में करीब 51 लाख रुपये का मकान है। मोदी ने नई दिल्ली में आईसीआईसीआई बैंक से 40 लाख रुपये का कर्ज ले रखा है। उनके ऊपर 10.70 लाख रुपये का सरकारी कर्ज है। उपमुख्यमंत्री की पत्नी और उनके पुत्र के पास 6.84 लाख रुपये के आभूषण, करीब 15 लाख रुपये बैंक जमा और 5.28 लाख रुपये के एनएससी और अन्य प्रमाणपत्र हैं। नीतीश सरकार में 29 मंत्रियों में सबसे अधिक अमीर मानव संसाधन विकास मंत्री पीके शाही हैं। पेशे से वकील महाधिवक्ता के बाद अब मंत्री बने शाही के पास करीब साढ़े चार करोड़ रुपये की चल और अचल संपत्ति है। राज्य के श्रम संसाधन मंत्री जनार्दन सिंह सिग्ग्रीवाल सबसे कम संपत्ति के मालिक हैं।



नवीनगर पावर जेनरेटिंग कम्पनी प्रा. लिमिटेड (एनटीपीसी एम एम ई सी का एक संयुक्त उपक्रम)

नवीनगर सुपर बर्नल पावर प्रोजेक्ट सार्वजनिक सूचना

सभी संबंधित लोगों की जानकारी के लिए सूचित किया जाता है कि 'नवीनगर सुपर बर्नल पावर प्रोजेक्ट' (3x660 मेगावाट) ग्राम-मधियान, तालुका-नवीनगर, जिला-औरंगाबाद विहार के स्थापना को पर्यावरण एम एम मंत्रालय, भारत सरकार द्वारा 27 दिसंबर 2010 को पर्यावरणीय स्वीकृति (अनुमति) दे दी गई है। पर्यावरणीय स्वीकृति/अनुमति पत्र की प्रति बिहार राज्य प्रदूषण नियंत्रण बोर्ड/समिति के पास उपलब्ध है तथा इसे पर्यावरण एवं वन मंत्रालय के वेबसाइट <http://envfor.nic.in> पर भी देखा जा सकता है।

मुख्य कार्यकारी अधिकारी

नवीनगर पावर जेनरेटिंग कम्पनी प्रा. लिमिटेड नवीनगर सुपर बर्नल पावर प्रोजेक्ट सार्वट ऑफिस: बीएसई सी कालोनी, सोन नगर, जिला-औरंगाबाद (बिहार)

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07	—	21	30	58
06	04	06	03	19
08	06	06	04	24
05	03	09	03	20
02	—	08	03	13
01	—	10	15	26
02	—	08	19	29
02	—	02	18	20
—	—	07	20	29
02	—	10	14	35
09	02	23	15	45
06	01	04	22	26
—	—	04	—	08
02	02	04	01	16
07	01	07	01	01
—	—	—	01	02
—	01	—	—	08
02	04	02	—	03
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PUBLIC NOTICE

It is notified for the information of all concerned persons that 3x660 MW
'Nabinagar Super Thermal Power Project' being established at Village Majhiyan
in Nabinagar Taluk in Aurangabad district in the state of Bihar has been accorded
environmental clearance by the Ministry of Environment and Forests, Govt. of
India on 27 December, 2010. Copies of clearance letter are available with
Bihar State Pollution Control Board/Committee and may also be seen at website
of the Ministry of Environment and Forests at <http://envfor.nic.in>

Chief Executive Officer

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Dated: 3rd January 2011

'Open Selection' (i.e. 3rd Counselling)
to be held on 28.01.2011'

Selection for filling up the following Postgraduate Seats for
January, 2011 session which remained vacant after 2nd
counselling, will be held on 28.01.2011 at 9.30 A.M.

S. No.	Department	Total Seats	Gen	OBC	SC	ST
1.	Anatomy	04	03	—	01	—
2.	Biophysics	02	—	01	—	01
3.	Community Medicine	01	—	—	—	01
4.	Lab. Medicine	01	—	—	—	01
5.	Microbiology	01	—	—	—	01
Total		09	03	01	02	03

In Case of non-availability of ST candidates, the seat reserved
for ST shall be made available to the SC. If ST/SC candidates
are not available, then the seats shall be made available to the
General category. Similarly, in case of OBC seats remain
vacant after calling all eligible OBC candidates then this seat
shall be made available to the General Category.

All those candidates who have secured not less than 50%
marks in the PG entrance examination of the Institute held
on 14th November, 2010 irrespective of their rank in the
entrance examination and who are interested in these subjects
will be eligible. The list of candidates who have secured 50% or
above marks is available on AIIMS website www.aiims.ac.in
and www.aiims.edu and displayed on Notice Board of
Examination Section, AIIMS. They are to report to Academic
Section on the above mentioned date and time alongwith their
all Original Certificates viz. Date of Birth, Proof of belonging to
ST/SC/OBC, MBBS Mark Sheets (including separate mark
sheet for each of the professional examinations)/Degree,
Internship Completion Certificate, Permanent Medical
Registration Certificate etc., (alongwith a set of attested copies
of all certificates). Please note that the candidates without
original certificates will not be allowed to attend the open
selection (i.e. 3rd counselling)

No candidate will be allowed to report after 11.00 A.M. on
28.01.2011. The allocation of seats will be made strictly as per
rank/merit of candidates in the entrance examination and on
the terms and conditions as mentioned in the Prospectus. The
selected candidates are required to join immediately after they
are found medically fit. No extension under any circumstances
will be granted.

(V.P.GUPTA)
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4/1/11



नबीनगर पावर जेनरेटिंग कम्पनी प्रा० लि०
(एनटीपीसी लिमिटेड एवं बिहार राज्य विद्युत बोर्ड का एक संयुक्त उपक्रम)
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परियोजना कार्यालय / Project Office

दिनांक :

संदर्भ :

Ref.: 0370/एन0एस0टी0पी0पी0/पर्या0/0311/1588-82 Date: 11.03.2011

सेवा में,

मुखिया,

ग्राम पंचायत, महुआंव।

विषय:- पर्यावरण एवं वन मंत्रालय, भारत सरकार के द्वारा नबीनगर वृहत् ताप विद्युत परियोजना को पर्यावरणीय स्वीकृति दिये जाने के संबंध में।

महाशय,

विदित करते हुए हर्ष हो रहा है कि औरंगाबाद जिलान्तर्गत स्थापित किए जा रहे नबीनगर पावर जेनरेटिंग कम्पनी की नबीनगर वृहत् ताप विद्युत परियोजना (3X 660 MW) को पर्यावरण एवं वन मंत्रालय, भारत सरकार द्वारा पर्यावरणीय स्वीकृति प्रदान कर दी गयी है।

उक्त स्वीकृति की प्रतिलिपि सादर संलग्न की जा रही है।

संलग्न:- पर्यावरणीय स्वीकृति की प्रति।

मीरादेवी

ओ० पी० शर्मा

अपर महाप्रबंधक (परियोजना)

नबीनगर वृहत् ताप विद्युत परियोजना

परियोजना कार्यालय सोननगर, बारुण, औरंगाबाद।



नबीनगर पावर जेनरेटिंग कम्पनी प्रा० लि०
(एनटीपीसी लिमिटेड एवं बिहार राज्य विद्युत बोर्ड का एक संयुक्त उपक्रम)
Nabinagar Power Generating Co. Pvt. Limited
(A Joint Venture of NTPC Ltd. & Bihar State Electricity Board)

परियोजना कार्यालय / Project Office

संदर्भ :

Ref.: 0370/एन0एस0टी0पी0पी0/पर्या0/0311/1587-82

दिनांक :

Date: 11.03.2011

सेवा में,

मुखिया,

ग्राम पंचायत, अंकोरहा।

विषय:- पर्यावरण एवं वन मंत्रालय, भारत सरकार के द्वारा नबीनगर वृहत् ताप विद्युत परियोजना को पर्यावरणीय स्वीकृति दिये जाने के संबंध में।

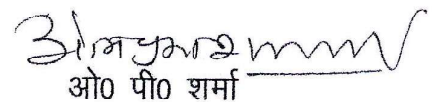
महाशय,

विदित करते हुए हर्ष हो रहा है कि औरंगाबाद जिलान्तर्गत स्थापित किए जा रहे नबीनगर पावर जेनरेटिंग कम्पनी की नबीनगर वृहत् ताप विद्युत परियोजना (3X 660 MW) को पर्यावरण एवं वन मंत्रालय, भारत सरकार द्वारा पर्यावरणीय स्वीकृति प्रदान कर दी गयी है।

उक्त स्वीकृति की प्रतिलिपि सादर संलग्न की जा रही है।

संलग्न:- पर्यावरणीय स्वीकृति की प्रति।

कुलदी देवी
23/3/09


ओ० पी० शर्मा

अपर महाप्रबंधक (परियोजना)

नबीनगर वृहत् ताप विद्युत परियोजना
परियोजना कार्यालय सोननगर, बारुण, औरंगाबाद।

परियोजना कार्यालय : नबीनगर सुपर थर्मल पावर प्रोजेक्ट, एनपीजीसी लिमिटेड, बीएसईबी कॉलोनी, सोननगर, बारुण, जिला-औरंगाबाद - 824 101 (बिहार)
Project Office : Nabinagar Super Thermal Power Project, NPGC Ltd., BSEB Colony, Sonenagar, Barun, Distt. Aurangabad - 824 101 (Bihar)

Phone : 06186 - 244204 / 292131 / 292128, Fax : 244240 / 244162

Head Office : NPGC Ltd., 1st Floor, Vidyut Bhawan-II, Bailey Road, Patna - 800 001.

परिचालन कार्यालय : एन पी जी सी लिमिटेड, एनपीजीसी लिमिटेड, एनपीजीसी लिमिटेड, एनपीजीसी लिमिटेड, एनपीजीसी लिमिटेड



नबीनगर पावर जेनरेटिंग कम्पनी प्रा० लि०
(एनटीपीसी लिमिटेड एवं बिहार राज्य विद्युत बोर्ड का एक संयुक्त उपक्रम)
Nabinagar Power Generating Co. Pvt. Limited
(A Joint Venture of NTPC Ltd. & Bihar State Electricity Board)

परियोजना कार्यालय / Project Office

दिनांक :

Date : 11.03.2011

संदर्भ :

Ref. : 0370/एन0एस0टी0पी0पी0/पर्या0/0311/1589-82

सेवा में,

अध्यक्ष,

जिला परिषद, औरंगाबाद।

विषय:- पर्यावरण एवं वन मंत्रालय, भारत सरकार के द्वारा नबीनगर वृहत् ताप विद्युत परियोजना को पर्यावरणीय स्वीकृति दिये जाने के संबंध में।

महाशय,

विदित करते हुए हर्ष हो रहा है कि औरंगाबाद जिलान्तर्गत स्थापित किए जा रहे नबीनगर पावर जेनरेटिंग कम्पनी की नबीनगर वृहत् ताप विद्युत परियोजना (3X 660 MW) को पर्यावरण एवं वन मंत्रालय, भारत सरकार द्वारा पर्यावरणीय स्वीकृति प्रदान कर दी गयी है।

उक्त स्वीकृति की प्रतिलिपि सादर संलग्न की जा रही है।

संलग्न:- पर्यावरणीय स्वीकृति की प्रति।

गौतम कुमार

ओमप्रकाश शर्मा

ओ० पी० शर्मा

अपर महाप्रबंधक (परियोजना)

नबीनगर वृहत् ताप विद्युत परियोजना
परियोजना कार्यालय सोननगर, बारुण, औरंगाबाद।

परियोजना कार्यालय : नबीनगर सुपर थर्मल पावर प्रोजेक्ट, एनपीजीसी लिमिटेड, बीएसईबी कॉलोनी, सोननगर, बारुण, जिला-औरंगाबाद - 824 101 (बिहार)
Project Office : Nabinagar Super Thermal Power Project, NPGC Ltd., BSEB Colony, Sonenagar, Barun, Distt.-Aurangabad - 824 101 (Bihar)

Phone : 06186 - 244204 / 292131 / 292128, Fax : 244240 / 244162

Head Office : NPGC Ltd., 1st Floor, Vidyut Bhawan-II, Bailey Road, Patna - 800 001

संयुक्त कार्यालय : एन टी पी सी भवन, राष्ट्रीय कॉमिशन, 7 ईस्टीनग्लेन, रिजर्व लोधी रोड, नई दिल्ली - 110 005



(एनटीपीसी लिमिटेड एवं बिहार राज्य विद्युत बोर्ड का एक संयुक्त उपक्रम)

Nabinagar Power Generating Co. Pvt. Limited

(A Joint Venture of NTPC Ltd. & Bihar State Electricity Board)

परियोजना कार्यालय / Project Office

दिनांक :

संदर्भ :

Ref.: 0370/एन0एस0टी0पी0पी0/पर्या0/0311/1586-82 Date: 11.03.2011

सेवा में,

मुखिया,

ग्राम पंचायत, मेह।

विषय:- पर्यावरण एवं वन मंत्रालय, भारत सरकार के द्वारा नबीनगर वृहत् ताप विद्युत परियोजना को पर्यावरणीय स्वीकृति दिये जाने के संबंध में।

महाशय,

विदित करते हुए हर्ष हो रहा है कि औरंगाबाद जिलान्तर्गत स्थापित किए जा रहे नबीनगर पावर जेनरेटिंग कम्पनी की नबीनगर वृहत् ताप विद्युत परियोजना (3X 660 MW) को पर्यावरण एवं वन मंत्रालय, भारत सरकार द्वारा पर्यावरणीय स्वीकृति प्रदान कर दी गयी है।

उक्त स्वीकृति की प्रतिलिपि सादर संलग्न की जा रही है।

संलग्न:- पर्यावरणीय स्वीकृति की प्रति।

अनपत्ता प्रकृति

ओ० पी० शर्मा

अपर महाप्रबंधक (परियोजना)

नबीनगर वृहत् ताप विद्युत परियोजना

परियोजना कार्यालय नबीनगर, बारुण, औरंगाबाद।

NABINAGAR SUPER THERMAL POWER STATION
UNIT OF NTPC LTD.

Annexure - F

S.N.	Description	Present Status	Action Required
1	Progress on FGD Package	Package is already delayed by 15 Months w.r.t. Revised schedule due to Covid Impact. 24 months w.r.t. Original schedule.	Immediate action needed for mitigating delays
		Civil Works: <ul style="list-style-type: none"> • RCC Scope: 32,877cum; Completed:25,731 cum (78%) 	Performance of Starcon is poor. Additional Civil Agency need to be deployed by BHEL to improve work progress.
		Chimney Works A. RCC Shell Concrete: Completed - 100% B. Flue can work: <ul style="list-style-type: none"> • U#1: Flue can erection completed. • U#2: fabrication completed, Erection Completed by July'24. • U#3: cane fabrication completed. Erection start by July'24, completion by Nov24. 	Flue can erection for U3 activities need to be expedited. Lifting activity shall also be monitored.
		Equipment Erection Works: 11450/30,000MT completed	
2	Engineering	732/832 (88%) completed	To be expedited and ensured completion of engineering at the earliest
3	Supply of main equipment	BOIs: Major BOI ordering completed. Supply Started. Details are following Ranipet- 12780/17000 MT supplied. Trichy- 6950/7400 MT Others- 1500 MT	Supply to be expedited
			Supply from other BHEL units need to be expedited.

Stack Emission Data (OCT-2023 to MAR-2024)

Annexure - G

UNIT_NO	Installed Capacity (MW)	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NOx (mg/Nm ³)			Mercury (Hg) Emission		
		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value	
			Min. Value for the month	Max. Value for the month		Min. Value for the month	Max. Value for the month		Min. Value for the month	Max. Value for the month		Min. Value for the month	Max. Value for the month
Oct-23													
1	660	30	22	24	100	1476	1571	100	236	264	0.03	BDL	≤0.005
2	660	30	21	26	100	1450	1614	100	230	319	0.03	BDL	≤0.005
3	660	30	23	28	100	1490	1713	100	240	323	0.03	BDL	≤0.005
Nov-23													
1	660	30	22	26	100	1425	1589	100	271	342	0.03	BDL	≤0.005
2	660	30	24	26	100	1523	1634	100	252	349	0.03	BDL	≤0.005
3	660	30	21	24	100	1614	1687	100	254	286	0.03	BDL	≤0.005
Dec-23													
1	660	30	22	24	100	1471	1507	100	223	247	0.03	BDL	≤0.005
2	660	30	23	22	100	1610	1688	100	230	281	0.03	BDL	≤0.005
3	660	30	22	26	100	1590	1790	100	288	306	0.03	BDL	≤0.005
Jan-24													
1	660	30	22	24	100	1421	1523	100	230	231	0.03	BDL	≤0.005
2	660	30	0	0	100	0	0	100	0	0	0	BDL	0
3	660	30	22	25	100	1497	1523	100	212	260	0.03	BDL	≤0.005
Feb-24													
1	660	30	23	25	100	1459	1523	100	236	241	0.03	BDL	≤0.005
2	660	30	23	24	100	1497	1589	100	247	274	0.03	BDL	≤0.005
3	660	30	25	27	100	1359	1362	100	252	265	0.03	BDL	≤0.005
Mar-24													
1	660	30	22	24	100	1421	1489	100	226	289	0.03	BDL	≤0.005
2	660	30	21	24	100	1452	1490	100	254	257	0.03	BDL	≤0.005
3	660	30	24	29	100	1490	1560	100	254	310	0.03	BDL	≤0.005

BDL - Below Detection Limit

** (MoEF&CC Notification Dated 7th December, 2015 AND AMENDMENT DATED 28TH JUNE, 2018)*

<i>Monthly Water Consumption for the period from Oct-2023 to Mar-2024 (FY-2023-24)</i> Station NTPC Nabinagar Capacity 1980 MW								
Sr No	Month	Monthly Water Withdrawal from Natural Source River /lake (m3)	Monthly Actual Industrial Water Consumption (m3)	Monthly Actual Township Water Consumption (m3)	Monthly Actual Gross Generation (MU)	PLF (%)	SWC Withdrawal (m3/MWh)	SWC (Consumption-Industrial) (m3/MWh)
1	Oct'23	3729578	3708578	21000	1183.83	80.36	3.15	3.13
2	Nov'23	3233953	3212953	21000	1284.96	90.13	2.52	2.50
3	Dec'23	2585954	2564954	21000	1104.64	74.99	2.34	2.32
4	Jan'24	1921268	1900268	21000	841.38	57.12	2.28	2.26
5	Feb'24	2462615	2441615	21000	1071.75	77.77	2.30	2.28
6	Mar'24	2839656	2818656	21000	1056.18	71.70	2.69	2.67
Total		1,67,73,024.00	1,66,47,024.00	1,26,000.00	6542.74	75.34	2.55	2.53