



नबीनगर / Nabinagar

Ref:1086/NSTPS/ Emt, Mgt./12/2026/01

Date: 15.06.2026

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

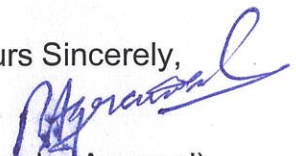
**Sub:** Submission of Environment Condition Compliance Report for the period from Oct-2025 to Mar-2026 for NSTPS Nabinagar.

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-2025 to Mar-2026 of Nabinagar Super Thermal Power Station (3X660MW).

Yours Sincerely,

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

नबीनगर / Nabinagar

| S.N.                       | CONDITIONS                                                                                                                                                                                                                                                                                                                                                                    | Stage I (3x660 MW) EC Compliance Report as on 31.03.2026                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Specific Conditions</b> |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SC-01                      | Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.                                                                                                                                                                                                                                                 | Vision document submitted with 1 <sup>st</sup> ECCR submitted on 27.05.2014.(Attached as Annexure-A)                                                                                                                                                                                                                                                                                                                                        |
| SC-02                      | Land requirement shall be restricted to 1500 acres (including ash pond).                                                                                                                                                                                                                                                                                                      | Total Land Acquired = 2972 Acres<br>• Stage I - (3x660MW)- Around 1500 Acre (including Ash Pond, including Forest land 18.25 acres (7.3875 Ha).<br>• Stage II- (3x800MW) - around 1472 acres under construction.                                                                                                                                                                                                                            |
| SC-03                      | Provision for installation of FGD shall be provided for future use.                                                                                                                                                                                                                                                                                                           | FGD contract awarded to M/s BHEL in 14.06.2019. Work is under progress. 98% civil works completed Mechanical Erection works under progress.<br>Target completion<br>Unit#1: Oct'26<br>Unit#2: Dec'26<br>Unit#3: Feb'27<br>As per MoEF&CC Gazette Notification dated 05.09.2022 and amended 30.12.2024, Nabinagar falls under the 'C' category. The timeline for compliance with the new emission norms will be applicable after 31.12.2029. |
| SC-04                      | High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .<br>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 <sup>3</sup> .<br>• Water sprinkling system and DFDS System in Operation at CHP.<br>• Bag Filters in operation in Ash Handling Plant.<br><br>In addition to above, sufficient measures have been taken to mitigate fugitive dust emission from Ash dyke.                                                                                     |
| 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                                                                                                                                                        | Being complied.<br>Source of coal is CCL, BCCL, ECL, MCL, NCL, PBCMP, SECL TSDC, NLC & WCFL.                                                                                                                                                                                                                                                                                                                                                |

*[Signature]*

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-110 003

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

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|       | to MoEF for suitable amendments to environmental clearance condition wherever necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Coal analysis report attached as <b>Annexure-B</b> . As per analysis report, assigned ash content in coal slightly exceeds the limit, but as per MOEF & CC notification dated 21.05.2020, any type of coal may be used.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SC-06 | Stack of 275 m height shall be installed and provided with continuous online monitoring equipment for SO <sub>x</sub> , NO <sub>x</sub> and Particulate Matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>275 m stack has been provided with continuous online monitoring system for SO<sub>x</sub>, NO<sub>x</sub> and PM.</li> <li>Exit velocity <math>\geq 22</math> m/sec is being complied.</li> <li>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. <b>Annexure – C (Picture of CEMS analysers)</b>.</li> </ul>                                                                                                                                                                                   |
| SC-7  | Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state Govt.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | The study has been conducted by M/s Geoscience Consultancy Services Roorkee. Two water bodies (Salaia & Kurva) in the surrounding village have been identified in the study and rejuvenated. Final report has already been submitted in previous EC compliance report (April-24 to Sep-24).                                                                                                                                                                                                                                                                                                                                                   |
| 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. | <p>Hydro-geological study of NSTPS Nabinagar has been conducted by National Institute of Hydrology, Roorkee in 2019. Report of study has already been submitted.</p> <p>Subsequently, Hydro-geological study has been conducted by M/s Geoscience Consultancy Services Roorkee. Final report has already been submitted in last year's six-monthly compliance report. (EC compliance report April-24 to Sep-24).</p> <p>No deterioration of water quality has been observed, as per the study.</p> <p>Further Hydrogeology study is being conducted for FY 2026-27 by M/S IIT Roorkee Pre &amp; Post Monsoon Sample collection completed.</p> |
| 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. Communication has already been given to Regional Office.                                                                                                                                                                                                                                                                                                                                                                                                  |

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| 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.                                                                                                                                                                                                                                                                                                          | Complied<br>The quantity of water drawn for Nabinagar STPS from Indrapuri Barrage is limited to the committed quantity for the project by State Govt. and minimum required environmental flow is being maintained as per Bihar govt agreement dated 09.10.2017. Minimum required environmental flow suggested by competent authority of the state govt. is maintained in the river during lean season as certified by WRD department of Bihar |
| 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.<br>There shall be no discharge outside the plant boundary except during monsoon.<br>Arrangements shall be made that effluents and storm water do not get mixed.<br><br>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation. | COC of 5.0 has been adopted. Treated effluents are recycled and reused. Zero Liquid discharge is being followed.<br><br>However, presently COC of 4.6 to 4.9 is being maintained due to different losses in the Cooling Towers.<br><br>A sewage treatment plant has been installed and operational and the treated sewage water is being used for raising green belt / plantation.                                                            |
| SC-14 | Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.                                                                                                                                                                                                                                                                                                | Complied.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SC-15 | Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.                                                                                                                                                                                                                                                                                                 | System for 100% extraction of dry fly ash along with suitable storage facilities has been designed. A utilization plan has been made for fly ash utilization and efforts are being made for 100 % ash utilization. <b>Annexure – D (Ash utilization data)</b>                                                                                                                                                                                 |

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| SC-16 | Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry. <b>Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash</b> as also in the effluents emanating from the existing ash pond. No ash shall be disposed of in low lying area. | Dry Fly Ash Extraction system (DAES) is under operational which collects 100% fly ash in dry form. Unutilized fly ash is being 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. No effluent from Ash Pond is going out. No Ash is disposed off in low lying area <b>Annexure – E (Fly Ash &amp; Bottom Ash report).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SC-17 | Ash pond shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.                                                                                                                                       | Being complied.<br>Ash pond 1 has HDPE lining, ash pond 2 & 3 have bentonite clay layer at base.<br><br>Following safety measures is being taken to protect the Ash Dyke from getting breached:<br>1. Ash dyke Certification being conducted on annual basis as per CPCB chapter -09 of annual certification of ash ponds and dykes and annual compliances audit of ash generation utilization & disposal by Govt Institution.<br>2. Dyke stability analysis is also conducted time to time, whenever required<br>3. Internal Audit of ash dyke being conducted by NTPC Corporate Operation Services (Ash Management group) and Regional Operation Services department and station representatives for any non-compliances.<br>4. Annual Maintenance contract placed for day-to-day maintenance of ash dykes and scope for emergency preparedness is also cover in the above contract. |
| 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                                                                                  | Noted<br>Disposal of Bottom Ash in abandoned mines presently not being done. In case, if it is carried out in future, it shall be carried out as per direction stipulated in EC conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|       | Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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.<br>Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.                                              | Green belt consisting of 3-Tier Plantation has been developed with plantation of native species with specified tree density by Forest Department, Govt. of Bihar.<br>Additionally, 5.0 acre Miyawaki plantation done in township.<br>Following native species have been planted in Plant premises.<br>Neem, Peepal, Amla, Jamun, Baheda, Sisam, Gudal, Sagwan, Mahogani, Mango, Guava, Amaltas, Bargad, Gulmahor, Kadam, Chitwan Etc.<br>Greenbelt Photos attached as Annexure F |
| SC-20 | The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.                                                                                                      | As a community development, 140 hand pumps for safe and clean drinking water in the nearby villages have been installed in FY 2025-26.<br>Further, NSTPS Nabinagar has carried out testing of Ground Water Quality by NIH, Roorkee and Concentration of Fluoride is within prescribed limit. (i.e. 1.5 mg/L).                                                                                                                                                                    |
| 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 60.26 Crores value upto FY 2025-26.<br>Recurring expenditure through CSR activities are being carried out in-line with NTPC CSR policy and guidelines.                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                      | 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                                                                                                                                                                                                                                                                                                           |

*[Signature]*

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|                           | <p>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.</p> <p>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.</p> | <p>sponsored to 30 youths for skill development program at CIPET Hajipur in FY 2020-21, Agro based training like vermicomposting provided to 50 PAPs and Bee keeping training &amp; honey production and Amrit Krishi training has been provided to 100 PAPs each training and reimbursement of tuition fees for ITI course to the 115 PAPs/their wards. Vocational training for skill development to villagers and sewing training provided to girls in the villages. Apart from above beautician training imparted for 55 girls/women in Project affected villages.</p> |
| SC-23                     | <p>Shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.</p>                                                                                                                                                                                                                                                                                           | <p>NTPC Limited has in-built system for monitoring and implementation of the complete CSR/R&amp;R Community Development Plan at the Unit Level, Region level and Corporate level.</p> <p>In-line with Monitoring System, a social audit (Need Assessment Study &amp; Social Impact Evaluation) has been carried out by Indian Institute of Corporate Affairs, Final report received. Based on the Final report, further action plan is under implementation.</p>                                                                                                          |
| <b>General Conditions</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| GC-1                      | <p>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.</p>                                                                                                                                                                                                                                                                      | <p>Approval of Central Ground Water Board (CGWB) granted for construction of Rainwater harvesting (RWH).</p> <p>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 – G (RWH details with picture).</p>                                                                                                                                                                                                                                          |
| GC-2                      | <p>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</p>                                                                                                                                                                                                                                                                                                                                                     | <p><b>Complied.</b></p> <p>Adequate safety measures are in place and details are as follows:</p> <ol style="list-style-type: none"> <li>1) Fire Hydrant System provided.</li> <li>2) Automatic medium velocity water spray system for conveyor, TP's Provided.</li> </ol>                                                                                                                                                                                                                                                                                                 |

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|      | the Ministry as well as to the Regional Office of the Ministry.                                                                                                                                                                                                                                                                                                                                                                                                                               | 3) Automatic Fire Detection Cum Sprinkler for crusher house provided.<br>4) In addition to the above, project have established full-fledged fire station manned round the clock by CISF.                                                                                                                                                            |
| 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.                                                                                                                                         | Complied.<br>License for storage of LDO has been granted by department of Explosive, Nagpur on 16.10.2018 and is valid up to 31.12.2026. <b>Annexure-H, LDO Storage License</b> .<br>HFO & LSHS are not being used in the plant. Sulphur content in the liquid fuel is as per relevant IS code 15770:2021.<br>Disaster Management plan is in place. |
| GC-4 | Regular monitoring of ground water levels shall be carried out by establishing a network of existing wells and constructing new piezometers.<br>Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project. | Being Complied.<br><br>Being complied.<br>Ground water analysis report is sent to RO of the Ministry from time to time and attached as <b>Annexure-I (Ground water report)</b> .<br><br>The present report is In-line with the baseline data and no significant variation observed.                                                                 |
| 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<br>Surface water analysis report is attached as <b>Annexure-J (Surface water report)</b><br><br>Report on Surface water quality is submitted to ministry on regular basis.                                                                                                                                                           |
| GC-6 | First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.                                                                                                                                                                                                                                                                                                                                                                     | Construction completed and Plant is in Operation.                                                                                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                                                                              | Noise level monitoring being done. Noise level monitoring report is attached as <b>Annexure-K (Noise level report)</b> .                                                                                                                                                                                                                            |

*[Signature]*

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**नबीनगर / Nabinagar**

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | 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.                                                                                                                                                                                                                                            | 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 <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company. | AAQMS at specified 04 locations is being carried out regularly. AAQMS report is attached as <b>Annexure-L (AAQMS report)</b> .<br><br>Online Ambient Air Quality station have already been Installed (in consultation with pollution control board) and commissioned and all are operational.<br><br>Periodic Report is submitted to regional office of Ministry.<br>Online data is available to CPCB and SPCB round the clock. |
| 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.                                                                                                                                                                                                                                     | Construction completed and Plant is in Operation.                                                                                                                                                                                                                                                                                                                                                                               |
| 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                                                                                                                                                | Complied.<br><b>Annexure-M (Photo of Newspaper Advertisement)</b> .                                                                                                                                                                                                                                                                                                                                                             |

*[Signature]*

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नबीनगर / Nabinagar

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                      |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|       | Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                      |
| 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.                                                                                                                                                                                                                                                  | Complied<br><b>Annexure-N (Copy of Letter sent to Panchayat).</b>                                    |
| 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.                                                                                                                                                                                                                                                                                                                                                | Environmental Management Group (EMG) is already functional at site and reporting to Head of Project. |
| GC-13 | The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, SPM, RSPM (PM <sub>2.5</sub> & PM <sub>10</sub> ), SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain. | Complied.                                                                                            |
| GC-14 | The environment statement for each financial year ending <b>31<sup>st</sup> March in Form-V</b> 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                                                                                                                                                      | Being complied.<br><br>Environmental Statement sent to MOEF&CC and BSPCB on dated 20.09.2025.        |

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**नबीनगर / Nabinagar**

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|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | to the respective Regional Offices of the Ministry by e-mail.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 31.12.2025 to MOEF&amp;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 <a href="https://ntpc.co.in/about-us/corporate-functions/environment/status-hyc-reports">https://ntpc.co.in/about-us/corporate-functions/environment/status-hyc-reports</a></p> <p>Half Yearly EC Compliance report for the period of Oct-2025 to Mar-2026 is being submitted herewith.</p> <p>All three Units in operation. NPGCL Nabinagar is now merged with NTPC Ltd. named as Nabinagar Super Thermal Power Station (NSTPS). Data uploading on NTPC website has been done and updated the same periodically.</p> |
| GC-16 | 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 <sub>x</sub> (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 &amp; Environment Management Plan / Environment Statement has been submitted to MoEF&amp;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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | An amount of Rs 992.48 Crores have been earmarked in the Feasibility Report for Nabinagar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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**नबीनगर / Nabinagar**

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|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          | 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.                    | 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 systems are under implementation at site. Expenditure incurred in FGD till Nov'25 is 402.97 Cr out of total 839 Crores allocated. |
| 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.                    | Already Information has been given to Regional Office and MoEF&CC. 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 <sup>th</sup> Sep'2019, 23 <sup>rd</sup> July'2021 and 01 <sup>st</sup> Jun'2022 respectively.                                                                                                                                                                                   |
| GC-19                                                    | Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.                                                                            | Full cooperation is being extended as and when required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ADDITIONAL CONDITIONS (J-13012/127/2007-1A.II(T))</b> |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| AC-1                                                     | The details of technology selection for adoption of FGD for control of SO <sub>x</sub> 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. | NSTPP Stage I is implementing wet FGD system and is presently under construction. The source of limestone and disposal of Gypsum shall be communicated later on.                                                                                                                                                                                                                                                                                                                                                                                      |
| AC-2                                                     | In case SCR/SCNR is not adopted, an alternate technology analysis and justification of technology selection for NO <sub>x</sub> reduction is to be submitted.                                                                                                                          | <b>For NO<sub>x</sub> reduction system:</b> The boiler is of sliding pressure supercritical, once-through type, utilizing a Tangential Firing System for NO <sub>x</sub> control in addition with SOFA (Separated Over Fire Air) and COFA (Close-coupled Over Fire Air) system.                                                                                                                                                                                                                                                                       |

*[Signature]*

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**नबीनगर / Nabinagar**

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC-3 | Progress of construction power plant till its commissioning, installation of FGD and De-Nox measures shall be submitted as a part of six-monthly compliance reports.                                                                                                                                                                                                      | All 3 Units of Plants commissioned and Operational.<br><br>Target completion of FGD is as follows:<br>Unit#1: Oct'26<br>Unit#2: Dec'26<br>Unit #3 Feb'27<br>PI refer Additional condition (AC-2) Point for De NOx Measures.                                        |
| 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 <sub>2</sub> and NO <sub>x</sub> respectively shall be installed.                                                                                  | Being complied.<br><br>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 (attached as O) has been submitted along with previous compliance report.                                                                                                                                                                    |
| AC-6 | The stack emissions (min, max, average and 98 percentile) shall be submitted for the period of six months in the compliance report. Further daily water withdrawal, consumption, power generation and average PLF shall be submitted. The specific water consumption per MWhr shall be calculated based on water consumption shall be submitted in the compliance report. | Stack emission data for compliance period is enclosed at <b>Annexure-P (Stack emission report)</b> .<br>Water consumption data for compliance period is enclosed at <b>Annexure-Q</b><br>Specific water consumption is well within limit (mentioned in Annexure Q) |
| 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.                                                                                                | The Plant is in operation as per the stipulated emission norms.                                                                                                                                                                                                    |
| AC-8 | Project proponent shall comply with all the directions passed by the Hon'ble National Green Tribunal vide its judgement dated 29/11/2024 in OA No. 976 of 2024 titled as                                                                                                                                                                                                  | Compliance status of OA no. 976/2024 attached as <b>Annexure -R</b>                                                                                                                                                                                                |

*[Signature]*

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नबीनगर / Nabinagar

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Vijay Kumar Singh Urf Dablu Singh vs State of Bihar. Compliance status in this regard shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.                                             |                                                                                                                                                                                                                                                                 |
| AC-9 | Project proponent shall abide by all orders and judicial pronouncements, made from time to time by the Hon'ble National Green Tribunal in OA No. 327 of 2022 titled as Amaravati Fly Ash Bricks Manufacturers Association Vs Union of India & Ors. | Next hearing date 30.07.2026<br>NSTPP abide by all order and judicial pronouncements, made from time to time by the Hon'ble National Green Tribunal in OA No. 327 of 2022 titled as Amaravati Fly Ash Bricks Manufacturers Association Vs Union of India & Ors. |

*[Signature]*  
**AGM (TSA EMG)**

*[Signature]*  
**(L.K. Behera)**  
ED & Head of Project  
Nabinagar Super Thermal Power Project

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## **Vision Document of Nabinagar STPP**

**(Stage- I : 3x660 MW & Stage- II : 3X660 MW – Under Approval)**

Nabinagar Power Generating Company Private Limited (NPGCPL) was incorporated on 09.09.2008 with equity holding of 50% each by NTPC and Bihar State Electricity Board (BSEB). ( Now Bihar state Power Generating Co ) The company will carry out all processes and activities needed for establishing Nabinagar STPP from concept to commissioning and O&M thereafter on BOO (Built, Own and Operate) concept. This vision document intends to provide a brief of the company profile, its business plan and the various aspects in setting up of the project, its commitment towards Environment and Rehabilitation & Resettlement of the project affected people.

NTPC Limited the largest power generating company of India, established in 1975 in central power sector is having the strength and expertise in areas such as setting up, operation and maintenance of power projects and sale of power to various states, power utilities and other bulk customers. NTPC has developed comprehensive in-house expertise in various facets of power generation from concept to commissioning, efficient operation to nurturing of ecology and environment in accordance with National Power Policy of Govt. of India. The company is striving to transform lives of the people through its business achievements.

Bihar State Electricity board has been institutionalized by Govt. of Bihar in 1958 with the responsibility of establishing and promoting coordinated development of generation, transmission & distribution of electricity in the state of Bihar in an efficient and economic manner.

NPGC shall be managed by its Board of Directors. The Board shall be responsible for the overall functioning of the company. NTPC shall have the management control of the company. To manage the day to day affairs of the company, the company shall have its own professional management team headed by a Chief Executive Officer (CEO) who shall be nominated by NTPC and appointed by the Board of the company.

### **Objectives of NPGCL (as per the JV agreement)**

The main objective of the company is to undertake the establishment and operation & maintenance of a coal based super thermal power project based on super critical technology at Nabinagar, in Aurangabad district in the state of Bihar.

Nabinagar STPP has been conceived as a base load coal fired power project with an ultimate capacity of 3960 MW (6x660 MW) to be implemented in two stages - Stage-I (3x660 MW) and Stage-II (3x660 MW). Super critical units are expected to be more efficient coal based super critical units, which shall also help reduce the CO<sub>2</sub> intensity of power generation. Apart from generating cheap, reliable, quality power essential for the development of national economy, establishment of Nabinagar STPP shall also help in the growth of the region.

Nabinagar STPP is committed to supply quality power keeping in view of a cleaner and healthier environment around the project. The project will adopt the vision of conservation of pure drinking water sources, clean and calm surroundings, sustainable economic development and natural resource conservation.

### **Project development Methodology**

NTPC shall provide the consultancy services for overall development and implementation of the project including the preparation of basic and detailed engineering design and tender documents, evaluation of bids for project construction, procurement of plant machinery (up to commercial operation date), project management and quality assurance, inspection and supervision of erection, commissioning and testing and witnessing of acceptance tests.

BSEB will extend all assistance with Govt. of Bihar for proper issue of all NOC/ letters of comfort to the company as may be required for the project. BSEB shall also assist in obtaining other statutory and non-statutory clearances and render necessary as well as timely support to the company for the successful implementation of the project.

Project shall be acquired, explored, developed, operated and maintained by the company as per statutory requirement under central and state laws.

#### Vision of NPGCL

**To be the Best Power generating company supplementing the need for powering India's Progress.**

#### Our Motto:

**Electrification of each village house and connect them to the world: let's do it"**

In order to translate the vision of Nabinagar STPP into reality, following specific programmes are envisaged:

|    | Generic Programmes                                                                                                                                                                                                                        | Nabinagar STPP's Specific Programmes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Sustainable power generation maintaining high standards of efficiency and financial strength, over the design life (25 years) and extended life of the project through suitable Renovation and Modernisation Programmes from Time to Time | 1. Timely commissioning of the project.<br>2. Operation at high PLF<br>3. Continual improvement in efficiency and PLF through efficient operation and maintenance and renovation and modernisation programmes from time to time gaining extended life of the project.<br>4. Certification of Project with ISO: 9001, OHSAS-18001, & 5S.                                                                                                                                                                                                            |
| 2. | Use of super critical technology for power generation, compliance with environmental norms and conservation of natural resources like land, water, fuel                                                                                   | 1. Commissioning of all pollution control systems (for air pollution control, water pollution control and noise pollution control) along with the commissioning of plant.<br>2. Implementation of Ash Utilization Plan.<br>3. Compliance with Environmental Norms and Standards.<br>4. Certification of Project with ISO: 14001.<br>5. Surveillance of all important environmental parameters on a continuous basis and apply corrective measures.<br>6. Large scale afforestation in and around the project as an effective mitigatory mechanism. |

|    |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. | Community Development & Corporate Social Responsibility | <ol style="list-style-type: none"> <li>1. Implementation of R&amp;R Plan for PAPs as per details agreed with the State Govt. and other stakeholders.</li> <li>2. Community Development Activities in the surrounding areas.</li> <li>3. Activities under Corporate Social Responsibility for improving health care, employability, education etc. with special focus on women empowerment, physically challenged &amp; economically weaker section of the Society</li> <li>4. Certification of Project with SA-8000</li> </ol> |
|----|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Clean development Mechanism (CDM)

CDM revenue is one of the prime considerations for the project, it is likely to ameliorate the Internal Rate of Return & will help overcoming the various barriers related to the project. The project is on ideal course for CDM benefits, being environmentally benign with less emission of green house gases



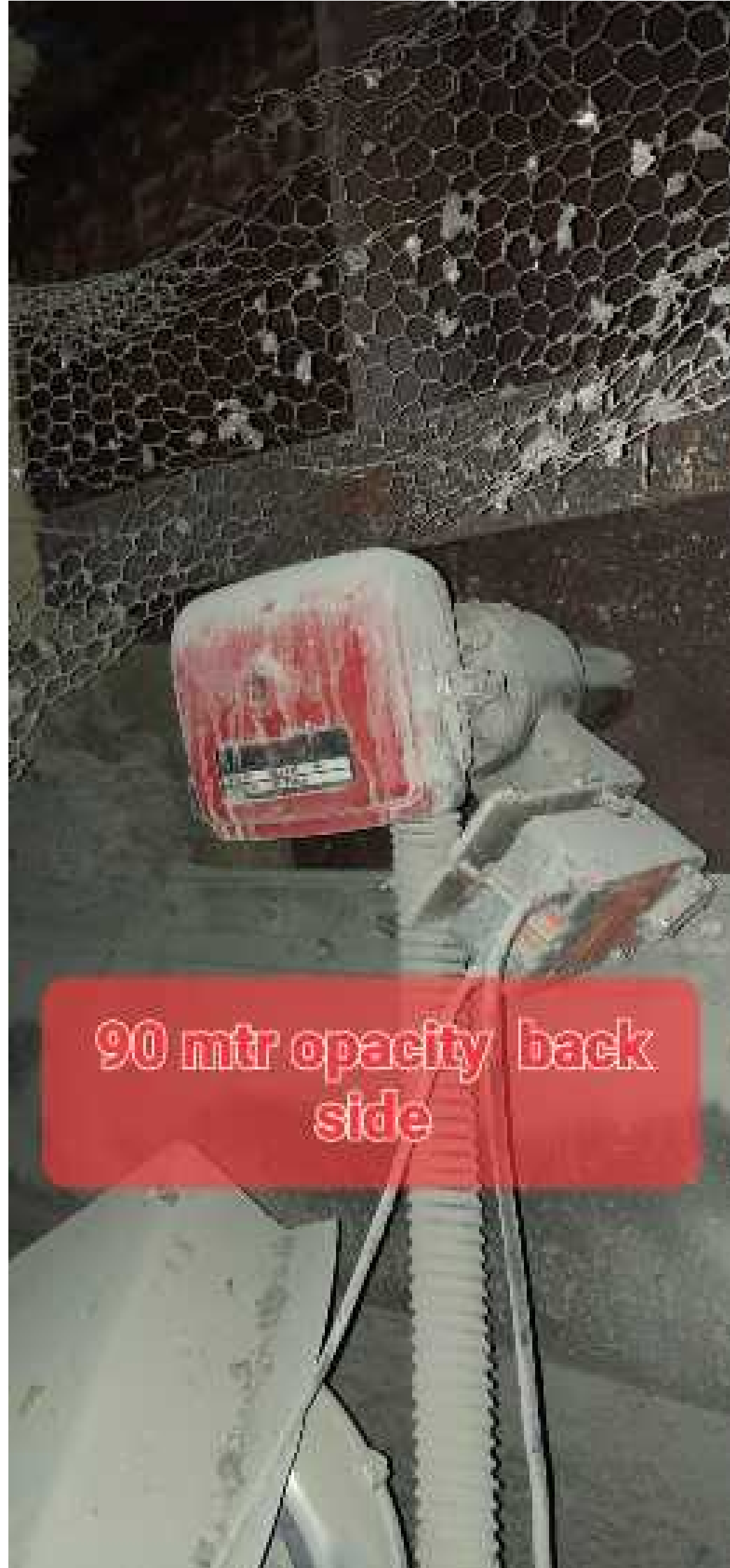
P. B. Paranjapa  
Addl. General Manager  
(Planning and Systems)  
(PGCIL/SCCP)

**Details of Coal used for the period from OCT-2025 to Mar-2026 of NSTPP, Nabinagar**

| AVERAGE DATA   |          |             |         |                |      |
|----------------|----------|-------------|---------|----------------|------|
| MONTH          |          | Ash content | Sulphur | Total Moisture | GCV  |
| OCTOBER, 2025  | DOMESTIC | 42.66       | 0.38    | 13.75          | 3823 |
| NOVEMBER, 2025 | DOMESTIC | 42.42       | 0.37    | 13.63          | 3842 |
| DECEMBER, 2025 | DOMESTIC | 41.33       | 0.40    | 13.15          | 3979 |
| JANUARY, 2026  | DOMESTIC | 40.9        | 0.32    | 13.4           | 3995 |
| FEBRUARY, 2026 | DOMESTIC | 41.11       | 0.36    | 13.12          | 4093 |
| MARCH, 2026    | DOMESTIC | 42.49       | 0.34    | 12.92          | 4026 |



**90 mtr opacity front  
side**



90 mtr opacity back  
side



**35 mtr probe filter**

## Ash utilisation data from Oct -2025 to Mar-2026

**Station:** NTPC/NSTPP, Nabinagar

**Capacity:** 1980 MW (3X660 MW)

| S.No | Year   | Total Ash Generation (MT*) | Total Ash Utilization (MT*) | Total Ash Utilization % |
|------|--------|----------------------------|-----------------------------|-------------------------|
| 1    | Oct-25 | 303466.38                  | 354948.00                   | 116.96                  |
| 2    | Nov-25 | 247043.02                  | 475095.35                   | 192.31                  |
| 3    | Dec-25 | 188888.60                  | 566118.41                   | 299.71                  |
| 4    | Jan-26 | 224353.10                  | 5,18,363.67                 | 231.05                  |
| 5    | Feb-26 | 255328.11                  | 3,80,511.41                 | 149.03                  |
| 6    | Mar-26 | 275152.09                  | 3,71,915.33                 | 135.16                  |

MT\*- Metric Tonnes



## Test Report

Sample Number: VEL/ASH/01  
Name & Address of the Party: M/s Nabinagar Super Thermal Power Station (NSTPS)  
Shivanpur, P.O.-Ankhor Railway Station, Bihar  
Aurangabad, Bihar-824303, India  
Sample Description: Fly Ash  
Sample Collected by: Vardan Envirolab Representative  
Parameter Required: As per Work Order  
Sampling Quantity: 250 gm.

Report No.: VEL/PE/2511290001  
Format No.: 7.8 F-03  
Party Reference: 4000334115-057-1019, Dated 30.05.2024  
No.:  
Reporting Date: 03/12/2025  
Period of Analysis: 29/11/2025 to 03/12/2025  
Receipt Date: 29/11/2025  
Sampling Date: 26/11/2025

## TEST RESULTS

| S. No. | Parameter         | Test-Method                                          | Results          | Unit  |
|--------|-------------------|------------------------------------------------------|------------------|-------|
| 1.     | Arsenic (as As)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 1.65             | µg/gm |
| 2.     | Lead (as Pb)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 4.74             | µg/gm |
| 3.     | Mercury (as Hg)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 4.     | Nickel (as Ni)    | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 7.15             | µg/gm |
| 5.     | Cadmium (as Cd)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 6.     | Selenium (as Se)  | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 7.     | Vanadium (as V)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 4.03             | µg/gm |
| 8.     | Chromium (as Cr)  | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 5.25             | µg/gm |
| 9.     | Iron (as Fe)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 353.72           | µg/gm |
| 10.    | Copper (as Cu)    | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 8.10             | µg/gm |
| 11.    | Zinc (as Zn)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 42.52            | µg/gm |
| 12.    | Manganese (as Mn) | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 6.15             | µg/gm |

\*\*\*End of Report\*\*\*



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## Test Report

|                              |                                                                                                                                        |                      |                                       |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------|
| Sample Number:               | VEL/ASH/02                                                                                                                             | Report No.:          | VEL/PE/2511290002                     |
| Name & Address of the Party: | M/s Nabinagar Super Thermal Power Station (NSTPS)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                              |
| Sample Description:          | Bottom Ash (Unit -I)                                                                                                                   | Party Reference No.: | 4000334115-057-1019, Dated 30.05.2024 |
| Sample Collected by:         | Vardan Envirolab Representative                                                                                                        | Reporting Date:      | 03/12/2025                            |
| Parameter Required:          | As per Work Order                                                                                                                      | Period of Analysis:  | 29/11/2025 to 03/12/2025              |
| Sampling Quantity:           | 250 gm.                                                                                                                                | Receipt Date:        | 29/11/2025                            |
|                              |                                                                                                                                        | Sampling Date:       | 26/11/2025                            |

## TEST RESULTS

| S. No. | Parameter         | Test-Method                                          | Results          | Unit  |
|--------|-------------------|------------------------------------------------------|------------------|-------|
| 1.     | Arsenic (as As)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 2.     | Lead (as Pb)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 3.     | Mercury (as Hg)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 4.     | Nickel (as Ni)    | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 10.06            | µg/gm |
| 5.     | Cadmium (as Cd)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 6.     | Selenium (as Se)  | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ -0.1) | µg/gm |
| 7.     | Vanadium (as V)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 0.90             | µg/gm |
| 8.     | Chromium (as Cr)  | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 6.35             | µg/gm |
| 9.     | Iron (as Fe)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 332.71           | µg/gm |
| 10.    | Copper (as Cu)    | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 6.71             | µg/gm |
| 11.    | Zinc (as Zn)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 15.23            | µg/gm |
| 12.    | Manganese (as Mn) | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 4.45             | µg/gm |

\*\*\*End of Report\*\*\*



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## Test Report

Sample Number: VEL/ASH/3  
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 -II)  
Sample Collected by: Vardan EnviroLab Representative  
Parameter Required: As per Work Order  
Sampling Quantity: 250 gm.

Report No.: VEL/PE/2511290003  
Format No.: 7.8 F-03  
Party Reference: 4000334115-057-1019, Dated  
No.: 30.05.2024  
Reporting Date: 03/12/2025  
Period of Analysis: 29/11/2025 to 03/12/2025  
Receipt Date: 29/11/2025  
Sampling Date: 26/11/2025

## TEST RESULTS

| S. No. | Parameter         | Test-Method                                           | Results         | Unit  |
|--------|-------------------|-------------------------------------------------------|-----------------|-------|
| 1.     | Arsenic (as As)   | VEL/STP/IIW/03, Issue No.-01, Issue Date : 01/11/2023 | 0.45            | µg/gm |
| 2.     | Lead (as Pb)      | VEL/STP/IIW/03, Issue No.-01, Issue Date : 01/11/2023 | 0.38            | µg/gm |
| 3.     | Mercury (as Hg)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023  | *BLQ(**LOQ-0.1) | µg/gm |
| 4.     | Nickel (as Ni)    | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023  | 3.10            | µg/gm |
| 5.     | Cadmium (as Cd)   | VEL/STP/IIW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 6.     | Selenium (as Se)  | VEL/STP/IIW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 7.     | Vanadium (as V)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023  | 0.52            | µg/gm |
| 8.     | Chromium (as Cr)  | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023  | 5.20            | µg/gm |
| 9.     | Iron (as Fe)      | VEL/STP/IIW/03, Issue No.-01, Issue Date : 01/11/2023 | 295.07          | µg/gm |
| 10.    | Copper (as Cu)    | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023  | 7.25            | µg/gm |
| 11.    | Zinc (as Zn)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023  | 12.54           | µg/gm |
| 12.    | Manganese (as Mn) | VEL/STP/IIW/03, Issue No.-01, Issue Date : 01/11/2023 | 3.95            | µg/gm |

\*\*\*End of Report\*\*\*



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## Test Report

|                              |                                                                                                                                        |                      |                                       |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------|
| Sample Number:               | VEL/ASH/04                                                                                                                             | Report No.:          | VEL/PE/2511290004                     |
| Name & Address of the Party: | M/s Nabinagar Super Thermal Power Station (NSTPS)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 I/-03                             |
| Sample Description:          | Bottom Ash (Unit -III)                                                                                                                 | Party Reference No.: | 4000334115-057-1019, Dated 30.05.2024 |
| Sample Collected by:         | Vardan Envirolab Representative                                                                                                        | Reporting Date:      | 03/12/2025                            |
| Parameter Required:          | As per Work Order                                                                                                                      | Period of Analysis:  | 29/11/2025 to 03/12/2025              |
| Sampling Quantity:           | 250 gm.                                                                                                                                | Receipt Date:        | 29/11/2025                            |
|                              |                                                                                                                                        | Sampling Date:       | 26/11/2025                            |

## TEST RESULTS

| S. No. | Parameter         | Test-Method                                         | Results         | Unit  |
|--------|-------------------|-----------------------------------------------------|-----------------|-------|
| 1.     | Arsenic (as As)   | VEL/STP/IW/03, Issue No.-01, Issue Date: 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 2.     | Lead (as Pb)      | VEL/STP/IW/03, Issue No.-01, Issue Date: 01/11/2023 | 0.32            | µg/gm |
| 3.     | Mercury (as Hg)   | VEL/STP/HW/03, Issue No.-01, Issue Date: 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 4.     | Nickel (as Ni)    | VEL/STP/HW/03, Issue No.-01, Issue Date: 01/11/2023 | 6.21            | µg/gm |
| 5.     | Cadmium (as Cd)   | VEL/STP/IW/03, Issue No.-01, Issue Date: 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 6.     | Selenium (as Se)  | VEL/STP/HW/03, Issue No.-01, Issue Date: 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 7.     | Vanadium (as V)   | VEL/STP/HW/03, Issue No.-01, Issue Date: 01/11/2023 | 0.74            | µg/gm |
| 8.     | Chromium (as Cr)  | VEL/STP/HW/03, Issue No.-01, Issue Date: 01/11/2023 | 4.84            | µg/gm |
| 9.     | Iron (as Fe)      | VEL/STP/IW/03, Issue No.-01, Issue Date: 01/11/2023 | 255.15          | µg/gm |
| 10.    | Copper (as Cu)    | VEL/STP/HW/03, Issue No.-01, Issue Date: 01/11/2023 | 7.10            | µg/gm |
| 11.    | Zinc (as Zn)      | VEL/STP/HW/03, Issue No.-01, Issue Date: 01/11/2023 | 29.06           | µg/gm |
| 12.    | Manganese (as Mn) | VEL/STP/IW/03, Issue No.-01, Issue Date: 01/11/2023 | 6.74            | µg/gm |

\*\*\*End of Report\*\*\*



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## Test Report

Sample Number: VEL/SF/01  
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: Coal Sample  
Sample Location: CHP Area  
Sample Collected by: Vardan Envirolab Representative  
Parameter Required: As per Work Order  
Sampling Quantity: 250 gm.

Report No.: VEL/SF/2511290005  
Format No.: 7.8 F-03  
Party Reference No.: 4000334115-057-1019, Dated 30.05.2024  
Reporting Date: 03/12/2025  
Period of Analysis: 29/11/2025 to 03/12/2025  
Receipt Date: 29/11/2025  
Sampling Date: 26/11/2025

## TEST RESULTS

| S. No. | Parameter         | Test-Method                                          | Results         | Unit  |
|--------|-------------------|------------------------------------------------------|-----------------|-------|
| 1.     | Arsenic (as As)   | VEL/STP/IW/03, Issue No.-01, Issue Date : 01/11/2023 | 0.52            | µg/gm |
| 2.     | Lead (as Pb)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 4.08            | µg/gm |
| 3.     | Mercury (as Hg)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 4.     | Nickel (as Ni)    | VEL/STP/IW/03, Issue No.-01, Issue Date : 01/11/2023 | 16.33           | µg/gm |
| 5.     | Cadmium (as Cd)   | VEL/STP/IW/03, Issue No.-01, Issue Date : 01/11/2023 | 0.31            | µg/gm |
| 6.     | Selenium (as Se)  | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | *BLQ(**LOQ-0.1) | µg/gm |
| 7.     | Vanadium (as V)   | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 18.55           | µg/gm |
| 8.     | Chromium (as Cr)  | VEL/STP/IW/03, Issue No.-01, Issue Date : 01/11/2023 | 3.02            | µg/gm |
| 9.     | Iron (as Fe)      | VEL/STP/IW/03, Issue No.-01, Issue Date : 01/11/2023 | 475.22          | µg/gm |
| 10.    | Copper (as Cu)    | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 14.66           | µg/gm |
| 11.    | Zinc (as Zn)      | VEL/STP/HW/03, Issue No.-01, Issue Date : 01/11/2023 | 84.78           | µg/gm |
| 12.    | Manganese (as Mn) | VEL/STP/IW/03, Issue No.-01, Issue Date : 01/11/2023 | 6.85            | µg/gm |
| 13.    | Total Sulphur     | IS:1350 (Part-III)                                   | 0.10 %          | %     |
| 14.    | Ash               | IS:1350 (P-I), 1984                                  | 28.0 %          | %     |



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## Tree Plantation Program

On the occasion of **World Environment Day 2025**, NTPC's Nabinagar Super Thermal Power Project (NSTPP) organized a meaningful **Parade & Plantation Drive** in collaboration with students of the **Girl Empowerment Mission (GEM)**. The initiative was held on **June 5, 2025**, in line with this World Environment Day 2025 theme — **“Beat Plastic Pollution.”**

The event was a vibrant blend of environmental consciousness and girl empowerment. Around **500 saplings** of native trees were planted in the NSTPP premises. The participation of GEM students added energy and inspiration to the event, as they actively engaged in planting activities and learned about the importance of ecological balance and sustainability.

The event concluded with a collective pledge by all participants to nurture the planted saplings and continue promoting green practices in their daily lives. The young girls of GEM, with their enthusiasm and commitment, truly embodied the spirit of this year's World Environment Day.



## Annexure F



## Annexure F

On **22 June 2025**, the **Nabinagar Super Thermal Power Project (NSTPP)** participated in a significant **Plantation Drive** in alignment with the “**Ek Ped Maa ke Naam**” initiative launched by the Government. This drive aims to promote environmental conservation and encourage citizens to plant trees as a tribute to their mothers, symbolizing respect for both nature and maternal bonds.

NSTPP took an active role in this green initiative by planting over **700 saplings** of native and environmentally beneficial species within its premises. The drive was conducted with the collective effort of NSTPP staff, local volunteers, and community members committed to contributing towards a greener and healthier environment.

NSTPP has also planned for 20,000 no's of plantation through Miyawaki Technique till date 10000 No's of plantation work completed and further work is in progress . The Miyawaki technique is an afforestation method developed by Japanese botanist Akira Miyawaki to rapidly create dense, multi-layered forests in small urban spaces. It involves planting a variety of native trees and shrubs close together (3-5 trees per square meter). This high density accelerates growth, fosters self-sustainability after about three years, and creates biodiversity, turning barren land into a mini-forest 10 times faster than conventional methods.

Various plantation drive photos are mentioned below



Saplings planted on Seva Parv 2025



NSTPP planted 2,000 saplings to mark the 50 years of NTPC, reinforcing its commitment to environmental sustainability and green development as part of the NTPC Golden Jubilee celebrations.



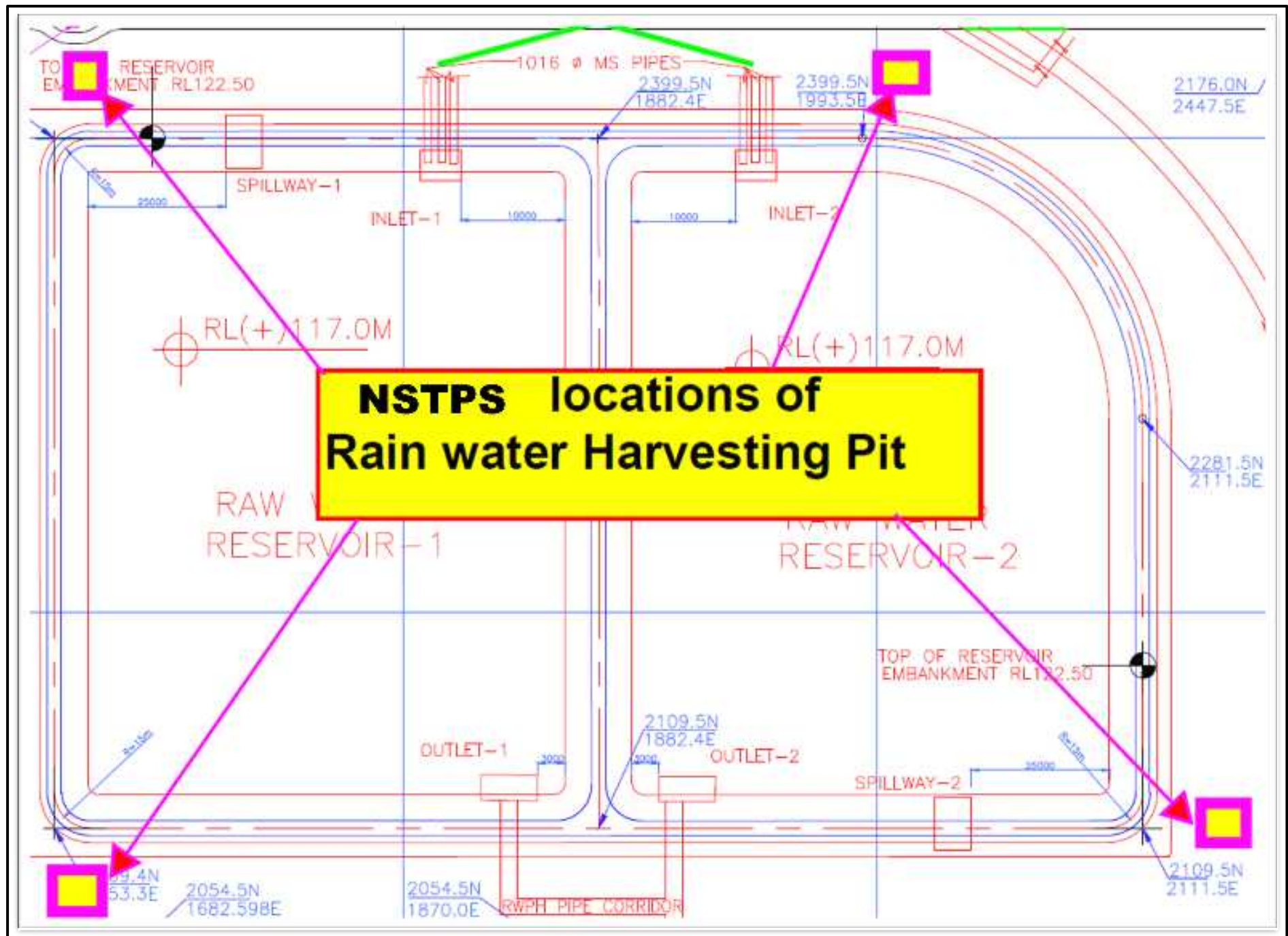
## Annexure F

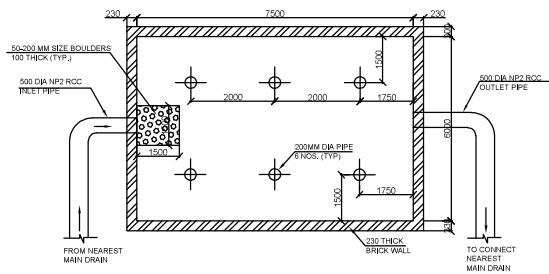
Avenue Roadside plantation activity, 2000 already done & total 20000 saplings to be planted under this scheme.



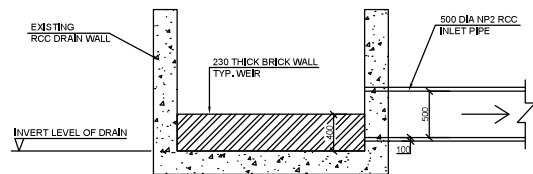
Plantation activity in 45 Ha land as Ash Dyke area. Total 35500 saplings to be planted.



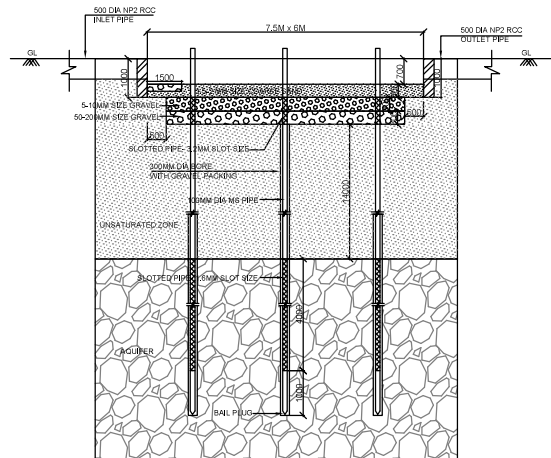




**RECHARGE PIT PLAN**



**INLET PIPE CONNECTION DETAILS**



**CROSS SECTION  
RECHARGE PIT  
SURFACE RUN OFF WATER**

**NOTE**

1. DEPTH OF BOREWELL/ BORE HOLES ARE UPTO 20M.
2. THE LOCATION OF THE RECHARGE PIT AND WEIR LOCATION SHALL BE DECIDED BY AS PER EIC INSTRUCTIONS.
3. THE LOCATION OF THE WEIR IS THREE (3) METERS DOWNSTREAM AFTER INLET PIPE.

FOR IMPLEMENTATION PURPOSE

(एन टी पी लिमिटेड)  
**NTPC**

**NTPC Limited**  
(A GOVERNMENT OF INDIA ENTERPRISE)  
FIELD ENGINEERING SERVICES

|                    |                                                        |                                                    |          |
|--------------------|--------------------------------------------------------|----------------------------------------------------|----------|
| PROJECT            |                                                        | NABINAGAR SUPER THERMAL POWER PROJECT<br>(3X660MW) |          |
| TITLE              |                                                        | RAIN WATER HARVESTING                              |          |
| REV. NO.           | DESCRIPTION                                            | DATE                                               | BY       |
| A                  | PRELIMINARY                                            | 15.01.21                                           |          |
| B                  | UPDATED IN LINE WITH COWB APPROVAL<br>DATED 21.01.2022 | 31.05.21                                           |          |
| DRAWN DESIGN CHKD. |                                                        | APPD                                               | DATE     |
| CLEARED BY         |                                                        | DATE                                               |          |
| SIZE               | SCALE                                                  | DRG. NO.                                           | REV. NO. |
| A3                 | NTS                                                    | 0370-FES-RWH-A-001                                 | B        |



**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 पट्टांकन 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<br/>Date of<br/>Renewal</p> | <p>समाप्ति की तारीख<br/>Date of<br/>Expiry of license</p> | <p>अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प<br/>Signature and office stamp of the<br/>licencing authority.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

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

Report No.: VEL/W/2601190001  
Format No.: 7.8 F-03  
Party Reference No.: 4000334115-057-1019  
Dated 30.05.2024  
Reporting Date: 24/01/2026  
Period of Analysis: 19/01/2026 to 24/01/2026  
Receipt Date: 19/01/2026  
Sampling Date: 15/01/2026  
Sampling Quantity: 2.0 Ltr.  
Sampling Type: Grab  
Parameter Required: As per work order

Sample Description: Ground Water  
Sample Location: Near Auxiliary Boiler  
Sample Collected by: Vardan Envirolab Representative  
Preservation: Refrigerated  
Sampling and Analysis Protocol: APHA & IS

| 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)                         | 7.45          | --    | 6.5 to 8.5                     | No Relaxation                                        |
| 2.     | Temperature                 | IS:3025 (P-9)                           | 25.1          | °C    | --                             | --                                                   |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                         | 756           | µS/cm | --                             | --                                                   |
| 4.     | Turbidity                   | IS: 3025 (P-10)                         | BLQ (LOQ-1.0) | NTU   | 1                              | 5                                                    |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                         | 454.00        | 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)                         | 7.3           | 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)                         | 153.46        | mg/L  | --                             | --                                                   |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                         | 146.16        | mg/L  | --                             | --                                                   |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                         | 42.45         | mg/L  | --                             | --                                                   |
| 14.    | Total Hardness              | IS: 3025 (P-21)                         | 189.94        | mg/L  | 200                            | 600                                                  |
| 15.    | Sodium                      | IS: 3025 (P-45)                         | 11.73         | mg/L  | --                             | --                                                   |
| 16.    | Potassium                   | IS: 3025 (P-45)                         | 1.36          | mg/L  | --                             | --                                                   |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 51.12         | mg/L  | 200                            | 400                                                  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 10.56         | mg/L  | 45                             | No Relaxation                                        |
| 19.    | Fluoride as F               | APHA 4500 F D                           | 0.42          | mg/L  | 1.0                            | 1.5                                                  |

### Terms & Conditions

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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001



## Test Report

| Sample Number: VEL/W/01 |                              |                                              |                 |           | Report No.: VEL/W/2601190001                 |                                                      |
|-------------------------|------------------------------|----------------------------------------------|-----------------|-----------|----------------------------------------------|------------------------------------------------------|
| 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)                              | 49.85           | mg/L      | 250                                          | 1000                                                 |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 15.32           | mg/L      | --                                           | --                                                   |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 1.35            | mg/L      | --                                           | --                                                   |
| 23.                     | Total Organic Carbon         | IS 3025 (P-69)                               | 0.49            | mg/L      | --                                           | --                                                   |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/l.     | 0.5                                          | 2.4                                                  |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/l.     | 1.0                                          | No relaxation                                        |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.05                                         | 1.5                                                  |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | 0.35            | mg/L      | 5                                            | 15                                                   |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 0.1                                          | 0.3                                                  |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.02                                         | No Relaxation                                        |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/l.     | --                                           | --                                                   |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L      | --                                           | --                                                   |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L      | --                                           | --                                                   |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)  | mg/l.     | 0.01                                         | No Relaxation                                        |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/l.     | 0.003                                        | No Relaxation                                        |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005) | mg/L      | 0.001                                        | No Relaxation                                        |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.05                                         | No Relaxation                                        |
| 39.                     | Total coliform               | IS 1622                                      | 22              | MPN/100ml | --                                           | --                                                   |
| 40.                     | E. Coli                      | IS 15185:2016                                | Absent          | Pec 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\*\*\*



**NITIN KUMAR**  
Sr. Microbiologist  
Date: 24/01/26



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001



## Test Report

Sample Number: VEL/W/02  
Name & Address of the Project: M/s Nabinagar Super Thermal Power Station,  
P.O.-Aditi Nagar, Aurangabad, Bihar-82430,  
India

Report No.: VEL/W/2601190002  
Format No.: 7.8 F-03  
Party Reference No.: 4000334115-057-1019  
Dated 30.05.2024  
Reporting Date: 24/01/2026  
Period of Analysis: 19/01/2026 to 24/01/2026  
Receipt Date: 19/01/2026  
Sampling Date: 15/01/2026  
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 & IS

| 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)                         | 7.16          | --    | 6.5 to 8.5                     | No Relaxation                                        |
| 2.     | Temperature                 | IS:3025 (P-9)                           | 26.2          | °C    | --                             | --                                                   |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                         | 726           | µS/cm | --                             | --                                                   |
| 4.     | Turbidity                   | IS: 3025 (P-10)                         | BI Q(LOQ-1.0) | NTU   | 1                              | 5                                                    |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                         | 436.00        | mg/L  | 500                            | 2000                                                 |
| 6.     | Total Suspended Solids      | IS: 3025 (P-17)                         | 14.06         | mg/L  | --                             | --                                                   |
| 7.     | Dissolved Oxygen            | IS: 3025 (P-38)                         | 7.2           | mg/L  | --                             | --                                                   |
| 8.     | BOD (3 Days at 27°C)        | IS 3025 (P-44)                          | BI Q(LOQ-2.0) | mg/L  | --                             | --                                                   |
| 9.     | Chemical Oxygen Demand      | APHA, 5220 B Open Reflux Method         | BI Q(LOQ-4.0) | mg/L  | --                             | --                                                   |
| 10.    | P-Alkalinity                | IS: 3025 (P-51)                         | Nil           | mg/L  | --                             | --                                                   |
| 11.    | M-Alkalinity                | IS: 3025 (P-51)                         | 145.36        | mg/L  | --                             | --                                                   |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                         | 153.32        | mg/L  | --                             | --                                                   |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                         | 46.07         | mg/L  | --                             | --                                                   |
| 14.    | Total Hardness              | IS: 3025 (P-21)                         | 192.94        | mg/L  | 200                            | 600                                                  |
| 15.    | Sodium                      | IS: 3025 (P-45)                         | 13.1          | mg/L  | --                             | --                                                   |
| 16.    | Potassium                   | IS: 3025 (P-45)                         | 1.5           | mg/L  | --                             | --                                                   |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 45.3          | mg/L  | 200                            | 400                                                  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 13.01         | mg/L  | 45                             | No Relaxation                                        |
| 19.    | Fluoride as F <sup>-</sup>  | APHA 4500 F D                           | 0.35          | mg/L  | 1.0                            | 1.5                                                  |



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## Test Report

| Sample Number: VEL/W/02 |                              |                                              |                 |           | Report No.: VEL/W/2601190002                 |                                                      |
|-------------------------|------------------------------|----------------------------------------------|-----------------|-----------|----------------------------------------------|------------------------------------------------------|
| 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)                              | 53.48           | mg/L      | 250                                          | 1000                                                 |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 7.65            | mg/L      | --                                           | --                                                   |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 1.17            | mg/L      | --                                           | --                                                   |
| 23.                     | Total Organic Carbon         | IS 3025 (P-69)                               | 0.37            | mg/L      | --                                           | --                                                   |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 0.5                                          | 2.4                                                  |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 1.0                                          | No relaxation                                        |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.05                                         | 1.5                                                  |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | 0.32            | mg/L      | 5                                            | 15                                                   |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 0.1                                          | 0.3                                                  |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.02                                         | No Relaxation                                        |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | --                                           | --                                                   |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 33.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L      | --                                           | --                                                   |
| 34.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L      | --                                           | --                                                   |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.003                                        | No Relaxation                                        |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005) | mg/L      | 0.001                                        | No Relaxation                                        |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | 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\*\*\*



**NITIN KUMAR**  
Sr. Microbiologist  
(Signature)  
24/01/26



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001



## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/03                                                                                                                           | Report No.:          | VEL/W/2601190003         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated                | 30.05.2024               |
| Sample Description:             | Ground Water                                                                                                                       | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Meh Bazar Area                                                                                                                     | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | 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)                         | 7.43         | --    | 6.5 to 8.5                     | No Relaxation                                        |
| 2.     | Temperature                 | IS:3025 (P-9)                           | 24.6         | °C    | --                             | --                                                   |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                         | 775          | µS/cm | --                             | --                                                   |
| 4.     | Turbidity                   | IS: 3025 (P-10)                         | BLQ(LOQ-1.0) | NTU   | 1                              | 5                                                    |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                         | 465.00       | mg/L  | 500                            | 2000                                                 |
| 6.     | Total Suspended Solids      | IS: 3025 (P-17)                         | 8.25         | 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)                         | 342.48       | mg/L  | --                             | --                                                   |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                         | 260.32       | mg/L  | --                             | --                                                   |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                         | 75.96        | mg/L  | --                             | --                                                   |
| 14.    | Total Hardness              | IS: 3025 (P-21)                         | 336.9        | mg/L  | 200                            | 600                                                  |
| 15.    | Sodium                      | IS: 3025 (P-45)                         | 23.0         | mg/L  | --                             | --                                                   |
| 16.    | Potassium                   | IS: 3025 (P-45)                         | 1.2          | mg/L  | --                             | --                                                   |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 73.47        | mg/L  | 200                            | 400                                                  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 12.32        | mg/L  | 45                             | No Relaxation                                        |
| 19.    | Fluoride as F               | APHA 4500 F D                           | 0.32         | mg/L  | 1.0                            | 1.5                                                  |

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## Test Report

| Sample Number: VEL/W/03 |                              |                                              | Report No.: VEL/W/2601190003 |           |                                              |                                                      |
|-------------------------|------------------------------|----------------------------------------------|------------------------------|-----------|----------------------------------------------|------------------------------------------------------|
| 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)                              | 43.24                        | mg/l.     | 250                                          | 1000                                                 |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 32.56                        | mg/L      | --                                           | --                                                   |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 1.19                         | mg/L      | --                                           | --                                                   |
| 23.                     | Total Organic Carbon         | IS 3025 (P-69)                               | 0.33                         | mg/L      | --                                           | --                                                   |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/l.     | 0.5                                          | 2.4                                                  |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      | 1.0                                          | No relaxation                                        |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.05                                         | 1.5                                                  |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/l.     | 5                                            | 15                                                   |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      | 0.1                                          | 0.3                                                  |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.02                                         | No Relaxation                                        |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)               | mg/L      | 0.01                                         | No Relaxation                                        |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | --                                           | --                                                   |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.01                                         | No Relaxation                                        |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      | --                                           | --                                                   |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      | --                                           | --                                                   |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)               | mg/L      | 0.01                                         | No Relaxation                                        |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.003                                        | No Relaxation                                        |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005)              | mg/L      | 0.001                                        | No Relaxation                                        |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.05                                         | No Relaxation                                        |
| 39.                     | Total coliform               | IS 1622                                      | 20                           | 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 \*\*\*



**MITIN KUMAR**  
Sr. Analyst  
24/10/26



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001



## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/04                                                                                                                           | Report No.:          | VEL/W/2601190004         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated                | 30.05.2024               |
| Sample Description:             | Ground Water                                                                                                                       | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Village-Sasana                                                                                                                     | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | 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)                         | 7.30         | --    | 6.5 to 8.5                     | No Relaxation                                        |
| 2.    | Temperature                 | IS:3025 (P-9)                           | 25.6         | °C    | --                             | --                                                   |
| 3.    | Electrical Conductivity     | IS: 3025 (P-14)                         | 604          | µS/cm | --                             | --                                                   |
| 4.    | Turbidity                   | IS: 3025 (P-10)                         | BLQ(LOQ-1.0) | NTU   | 1                              | 5                                                    |
| 5.    | Total Dissolved Solids      | IS: 3025 (P-16)                         | 362.00       | mg/L  | 500                            | 2000                                                 |
| 6.    | Total Suspended Solids      | IS: 3025 (P-17)                         | 11.86        | 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)                         | 225.35       | mg/L  | --                             | --                                                   |
| 12.   | Calcium Hardness            | IS: 3025 (P-40)                         | 130.42       | mg/L  | --                             | --                                                   |
| 13.   | Magnesium Hardness          | APHA, 3500 Mg B                         | 38.03        | mg/L  | --                             | --                                                   |
| 14.   | Total Hardness              | IS: 3025 (P-21)                         | 168.88       | mg/L  | 200                            | 600                                                  |
| 15.   | Sodium                      | IS: 3025 (P-45)                         | 41.0         | mg/L  | --                             | --                                                   |
| 16.   | Potassium                   | IS: 3025 (P-45)                         | 1.6          | mg/L  | --                             | --                                                   |
| 17.   | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 34.26        | mg/L  | 200                            | 400                                                  |
| 18.   | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 5.92         | mg/L  | 45                             | No Relaxation                                        |
| 19.   | Fluoride as F               | APHA 4500 F D                           | 0.37         | mg/L  | 1.0                            | 1.5                                                  |

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

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## Test Report

| Sample Number: VEL/W/04 |                              |                                              |                 | Report No.: VEL/W/2601190004 |                                              |                                                      |
|-------------------------|------------------------------|----------------------------------------------|-----------------|------------------------------|----------------------------------------------|------------------------------------------------------|
| 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)                              | 34.04           | mg/L                         | 250                                          | 1000                                                 |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 23.00           | mg/L                         | --                                           | --                                                   |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 1.66            | mg/L                         | --                                           | --                                                   |
| 23.                     | Total Organic Carbon         | IS 3025 (P-69)                               | 0.48            | mg/L                         | --                                           | --                                                   |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 0.5                                          | 2.4                                                  |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 1.0                                          | No relaxation                                        |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.05                                         | 1.5                                                  |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 5                                            | 15                                                   |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 0.1                                          | 0.3                                                  |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.02                                         | No Relaxation                                        |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)  | mg/L                         | 0.01                                         | No Relaxation                                        |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | --                                           | --                                                   |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.01                                         | No Relaxation                                        |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L                         | --                                           | --                                                   |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L                         | --                                           | --                                                   |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)  | mg/L                         | 0.01                                         | No Relaxation                                        |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.003                                        | No Relaxation                                        |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005) | mg/L                         | 0.001                                        | No Relaxation                                        |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | 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 |                                                      |

\*\*\*End of Report\*\*\*



NITIN KUMAR  
Sr. Microbiologist  
(Nitin)  
24/01/26



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## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/05                                                                                                                           | Report No.:          | VEL/W/2601190005         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated                | 30.05.2024               |
| Sample Description:             | Ground Water                                                                                                                       | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Village-Rahra                                                                                                                      | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | 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)                         | 7.55         | --    | 6.5 to 8.5                     | No Relaxation                                        |
| 2.    | Temperature                 | IS:3025 (P-9)                           | 25.2         | °C    | --                             | --                                                   |
| 3.    | Electrical Conductivity     | IS: 3025 (P-14)                         | 625          | µS/cm | --                             | --                                                   |
| 4.    | Turbidity                   | IS: 3025 (P-10)                         | 7.5          | NTU   | 1                              | 5                                                    |
| 5.    | Total Dissolved Solids      | IS: 3025 (P-16)                         | 375.00       | mg/l. | 500                            | 2000                                                 |
| 6.    | Total Suspended Solids      | IS: 3025 (P-17)                         | 8.12         | mg/l. | --                             | --                                                   |
| 7.    | Dissolved Oxygen            | IS: 3025 (P-38)                         | 7.3          | 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)                         | 159.25       | mg/L  | --                             | --                                                   |
| 12.   | Calcium Hardness            | IS: 3025 (P-40)                         | 124.46       | mg/L  | --                             | --                                                   |
| 13.   | Magnesium Hardness          | APHA, 3500 Mg B                         | 36.61        | mg/L  | --                             | --                                                   |
| 14.   | Total Hardness              | IS: 3025 (P-21)                         | 159.86       | mg/L  | 200                            | 600                                                  |
| 15.   | Sodium                      | IS: 3025 (P-45)                         | 12.7         | mg/L  | --                             | --                                                   |
| 16.   | Potassium                   | IS: 3025 (P-45)                         | 1.4          | mg/L  | --                             | --                                                   |
| 17.   | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 12.2         | mg/L  | 200                            | 400                                                  |
| 18.   | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 5.4          | 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/W/05 |                              |                                              | Report No.: VEL/W/2601190005 |           |                                              |                                                      |
|-------------------------|------------------------------|----------------------------------------------|------------------------------|-----------|----------------------------------------------|------------------------------------------------------|
| 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-52)                              | 21.46                        | mg/L      | 250                                          | 1000                                                 |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 4.28                         | mg/L      | --                                           | --                                                   |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 0.46                         | mg/L      | --                                           | --                                                   |
| 23.                     | Total Organic Carbon         | IS 3025 (P-69)                               | 0.38                         | mg/L      | --                                           | --                                                   |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      | 0.5                                          | 2.4                                                  |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      | 1.0                                          | No relaxation                                        |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.05                                         | 1.5                                                  |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      | 5                                            | 15                                                   |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      | 0.1                                          | 0.3                                                  |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.02                                         | No Relaxation                                        |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)               | mg/L      | 0.01                                         | No Relaxation                                        |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | --                                           | --                                                   |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.01                                         | No Relaxation                                        |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/l      | --                                           | --                                                   |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      | --                                           | --                                                   |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)               | mg/L      | 0.01                                         | No Relaxation                                        |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      | 0.003                                        | No Relaxation                                        |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005)              | mg/L      | 0.001                                        | No Relaxation                                        |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/l      | 0.05                                         | No Relaxation                                        |
| 39.                     | Total coliform               | IS 1622                                      | 22                           | 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



NITIN KUMAR  
Sr. Microbiologist  
24/01/26



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## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/06                                                                                                                           | Report No.:          | VEL/W/2601190006         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated:               | 30.05.2024               |
| Sample Description:             | Ground Water                                                                                                                       | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Near C- Type                                                                                                                       | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | 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)                         | 7.32         | --    | 6.5 to 8.5                     | No Relaxation                                        |
| 2.     | Temperature                 | IS:3025 (P-9)                           | 22.4         | °C    | --                             | --                                                   |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                         | 610          | µS/cm | --                             | --                                                   |
| 4.     | Turbidity                   | IS: 3025 (P-10)                         | 7.3          | NTU   | 1                              | 5                                                    |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                         | 366.00       | mg/L  | 500                            | 2000                                                 |
| 6.     | Total Suspended Solids      | IS: 3025 (P-17)                         | 11.9         | 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)                         | 157.56       | mg/L  | --                             | --                                                   |
| 12.    | Calcium Hardness            | IS: 3025 (P-10)                         | 142.67       | mg/L  | --                             | --                                                   |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                         | 43.40        | mg/L  | --                             | --                                                   |
| 14.    | Total Hardness              | IS: 3025 (P-21)                         | 177.34       | mg/L  | 200                            | 600                                                  |
| 15.    | Sodium                      | IS: 3025 (P-45)                         | 13.4         | mg/L  | --                             | --                                                   |
| 16.    | Potassium                   | IS: 3025 (P-45)                         | 1.7          | mg/L  | --                             | --                                                   |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 12.3         | mg/L  | 200                            | 400                                                  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 6.5          | mg/L  | 45                             | No Relaxation                                        |
| 19.    | Fluoride as F               | APHA 4500 F ID                          | BLQ(LOQ-0.2) | mg/L  | 1.0                            | 1.5                                                  |

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## Test Report

| Sample Number: VEL/W/06 |                              |                                              |                 | Report No.: VEL/W/2601190006 |                                              |                                                      |
|-------------------------|------------------------------|----------------------------------------------|-----------------|------------------------------|----------------------------------------------|------------------------------------------------------|
| 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)                              | 32.45           | mg/L                         | 250                                          | 1000                                                 |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 6.79            | mg/L                         | --                                           | --                                                   |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 0.57            | mg/L                         | --                                           | --                                                   |
| 23.                     | Total Organic Carbon         | IS: 3025 (P-69)                              | 0.30            | mg/L                         | --                                           | --                                                   |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 0.5                                          | 2.4                                                  |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 1.0                                          | No relaxation                                        |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.05                                         | 1.5                                                  |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 5                                            | 15                                                   |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L                         | 0.1                                          | 0.3                                                  |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.02                                         | No Relaxation                                        |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)  | mg/L                         | 0.01                                         | No Relaxation                                        |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | --                                           | --                                                   |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.01                                         | No Relaxation                                        |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L                         | --                                           | --                                                   |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L                         | --                                           | --                                                   |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)  | mg/L                         | 0.01                                         | No Relaxation                                        |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L                         | 0.003                                        | No Relaxation                                        |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005) | mg/L                         | 0.001                                        | No Relaxation                                        |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | 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\*\*\*



**NITIN KUMAR**  
Sr. Microbiologist  
(Am)  
24/01/26



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## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/07                                                                                                                           | Report No.:          | VEL/W/2601190007         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03k                |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated:               | 30.05.2024               |
| Sample Description:             | Ground Water                                                                                                                       | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Village-Shivanpur (Pota Kevin)                                                                                                     | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | 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)                          | 7.43          | --    | 6.5 to 8.5                     | No Relaxation                                        |
| 2.     | Temperature                 | IS:3025 (P-9)                            | 23.7          | °C    | --                             | --                                                   |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                          | 854           | µS/cm | --                             | --                                                   |
| 4.     | Turbidity                   | IS: 3025 (P-10)                          | BLQ(1.0Q-1.0) | NTU   | 1                              | 5                                                    |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                          | 513.00        | mg/L  | 500                            | 2000                                                 |
| 6.     | Total Suspended Solids      | IS: 3025 (P-17)                          | 13.53         | 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(1.0Q-2.0) | mg/L  | --                             | --                                                   |
| 9.     | Chemical Oxygen Demand      | APHA, 5220 B Open Reflux Method          | BLQ(1.0Q-4.0) | mg/L  | --                             | --                                                   |
| 10.    | P-Alkalinity                | IS: 3025 (P-51)                          | Nil           | mg/L  | --                             | --                                                   |
| 11.    | M-Alkalinity                | IS: 3025 (P-51)                          | 301.59        | mg/L  | --                             | --                                                   |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                          | 235.42        | mg/L  | --                             | --                                                   |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                          | 71.80         | mg/L  | --                             | --                                                   |
| 14.    | Total Hardness              | IS: 3025 (P-21)                          | 291.88        | mg/L  | 200                            | 600                                                  |
| 15.    | Sodium                      | IS: 3025 (P-45)                          | 13.0          | mg/L  | --                             | --                                                   |
| 16.    | Potassium                   | IS: 3025 (P-45)                          | 1.2           | mg/L  | --                             | --                                                   |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                          | 23.72         | mg/L  | 200                            | 400                                                  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS: 3025 (Part -34), Chromotropic Method | 5.7           | mg/L  | 45                             | No Relaxation                                        |
| 19.    | Fluoride as F               | APHA 4500 F ID                           | 0.44          | mg/L  | 1.0                            | 1.5                                                  |

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## Test Report

| Sample Number: VEL/W/07 |                              |                                              |                 |           | Report No.: VEL/W/2601190007                 |                                                      |
|-------------------------|------------------------------|----------------------------------------------|-----------------|-----------|----------------------------------------------|------------------------------------------------------|
| 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)                              | 30.42           | mg/L      | 250                                          | 1000                                                 |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 15.63           | mg/L      | --                                           | --                                                   |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 5.10            | mg/L      | --                                           | --                                                   |
| 23.                     | Total Organic Carbon         | IS: 3025 (P-69)                              | 0.31            | mg/L      | --                                           | --                                                   |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 0.5                                          | 2.4                                                  |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 1.0                                          | No relaxation                                        |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.05                                         | 1.5                                                  |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 5                                            | 15                                                   |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)   | mg/L      | 0.1                                          | 0.3                                                  |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.02                                         | No Relaxation                                        |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | --                                           | --                                                   |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L      | --                                           | --                                                   |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)   | mg/L      | --                                           | --                                                   |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)  | mg/L      | 0.01                                         | No Relaxation                                        |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.003                                        | No Relaxation                                        |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005) | mg/L      | 0.001                                        | No Relaxation                                        |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)  | mg/L      | 0.05                                         | No Relaxation                                        |
| 39.                     | Total coliform               | IS 1622                                      | 17              | 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\*\*\*



**MITIN KUMAR**  
Sr. Microbiologist  
(Aidm)  
24/01/26



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## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/08                                                                                                                           | Report No.:          | VEL/W/2601190008         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated                | 30.05.2024               |
| Sample Description:             | Surface Water                                                                                                                      | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Raw Water Reservoir                                                                                                                | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | Sampling Quantity:   | 2.0 Ltr.                 |
|                                 |                                                                                                                                    | Sampling Type:       | Grab                     |
|                                 |                                                                                                                                    | Parameter Required:  | As per work order        |

| S. No. | Parameter                   | Test-Method                              | Result       | Unit  |
|--------|-----------------------------|------------------------------------------|--------------|-------|
| 1.     | pH (at 25 °C)               | IS: 3025 (P-11)                          | 7.37         | ---   |
| 2.     | Temperature                 | IS: 3025 (P-9)                           | 25.0         | °C    |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                          | 376          | µS/cm |
| 4.     | Turbidity                   | IS: 3025 (P-10)                          | BLQ(LOQ-1.0) | NTU   |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                          | 225.00       | 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 (5 Days at 27°C)        | IS: 3025 (P-44)                          | 5.62         | mg/L  |
| 9.     | Chemical Oxygen Demand      | APHA, 5220 B Open Reflux Method          | 12.43        | mg/L  |
| 10.    | P-Alkalinity                | IS: 3025 (P-51)                          | Nil          | mg/L  |
| 11.    | M-Alkalinity                | IS: 3025 (P-51)                          | 78.35        | mg/L  |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                          | 98.32        | mg/L  |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                          | 28.95        | mg/L  |
| 14.    | Total Hardness              | IS: 3025 (P-21)                          | 126.15       | mg/L  |
| 15.    | Sodium                      | IS: 3025 (P-45)                          | 11.00        | mg/L  |
| 16.    | Potassium                   | IS: 3025 (P-45)                          | 1.5          | mg/L  |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                          | 12.50        | mg/L  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS: 3025 (Part -34), Chromotropic Method | 4.8          | 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/W/08 |                              |                                              | Report No.: VEL/W/2601190008 |           |
|-------------------------|------------------------------|----------------------------------------------|------------------------------|-----------|
| S. No.                  | Parameter                    | Test-Method                                  | Result                       | Unit      |
| 20.                     | Chloride as Cl               | IS: 3025 (P-32)                              | 31.00                        | mg/L      |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 23.06                        | mg/L      |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 5.14                         | mg/L      |
| 23.                     | Total Organic Carbon         | IS: 3025 (P-69)                              | 0.32                         | mg/L      |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | 0.47                         | mg/L      |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)               | mg/L      |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)               | mg/L      |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005)              | mg/L      |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 39.                     | Total coliform               | IS 1622                                      | 26                           | 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\*\*\*



**NITIN KUMAR**  
MGR  
(Attn)  
24/01/26



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## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/09                                                                                                                           | Report No.:          | VEL/W/2601190009         |
| Name & Address of the Project:  | M/s Nahinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated:               | 30.05.2024               |
| Sample Description:             | Surface Water                                                                                                                      | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Madhe Pond                                                                                                                         | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | Sampling Quantity:   | 2.0 Ltr.                 |
|                                 |                                                                                                                                    | Sampling Type:       | Grab                     |
|                                 |                                                                                                                                    | Parameter Required:  | As per work order        |

| S. No. | Parameter                   | Test-Method                             | Result       | Unit  |
|--------|-----------------------------|-----------------------------------------|--------------|-------|
| 1.     | pH (at 25 °C)               | IS: 3025 (P-11)                         | 7.43         | --    |
| 2.     | Temperature                 | IS: 3025 (P-9)                          | 26.8         | °C    |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                         | 282.0        | µS/cm |
| 4.     | Turbidity                   | IS: 3025 (P-10)                         | BLQ(LOQ-1.0) | NTU   |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                         | 169.00       | mg/L  |
| 6.     | Total Suspended Solids      | IS: 3025 (P-17)                         | 9.01         | mg/L  |
| 7.     | Dissolved Oxygen            | IS: 3025 (P-38)                         | 7.2          | mg/L  |
| 8.     | BOD (3 Days at 27°C)        | IS 3025 (P-44)                          | 4.28         | mg/L  |
| 9.     | Chemical Oxygen Demand      | APHA, 5220 B Open Reflux Method         | 14.36        | mg/L  |
| 10.    | P-Alkalinity                | IS: 3025 (P-51)                         | Nil          | mg/L  |
| 11.    | M-Alkalinity                | IS: 3025 (P-51)                         | 132.3        | mg/L  |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                         | 85.64        | mg/L  |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                         | 24.78        | mg/L  |
| 14.    | Total Hardness              | IS: 3025 (P-21)                         | 111.66       | mg/L  |
| 15.    | Sodium                      | IS: 3025 (P-45)                         | 8.2          | mg/L  |
| 16.    | Potassium                   | IS: 3025 (P-45)                         | 1.3          | mg/L  |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 25.49        | mg/L  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 5.2          | mg/L  |
| 19.    | Fluoride as F               | APHA 4500 F D                           | 0.33         | mg/L  |



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## Test Report

| Sample Number: VEL/W/09 |                              |                                              | Report No.: VEL/W/2601190009 |           |
|-------------------------|------------------------------|----------------------------------------------|------------------------------|-----------|
| S. No.                  | Parameter                    | Test-Method                                  | Result                       | Unit      |
| 20.                     | Chloride as Cl               | IS: 3025 (P-32)                              | 20.85                        | mg/L      |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 11.34                        | mg/L      |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 3.52                         | mg/L      |
| 23.                     | Total Organic Carbon         | IS 3025 (P-69)                               | 0.39                         | mg/L      |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 27.                     | Zinc as Zn                   | VEL/W/STP -05, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)               | mg/L      |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)               | mg/L      |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005)              | mg/L      |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 39.                     | Total coliform               | IS 1622                                      | 22                           | 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\*\*\*



**NITIN KUMAR**  
Sr. Microbiologist  
(with  
24/01/26



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## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/10                                                                                                                           | Report No.:          | VEL/W/2601190010         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated                | 30.05.2024               |
| Sample Description:             | Surface Water                                                                                                                      | Reporting Date:      | 24/01/2026               |
| Sample Location:                | Near Village Ankorha                                                                                                               | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Collected by:            | Vardan EnviroLab Representative                                                                                                    | Receipt Date:        | 19/01/2026               |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Date:       | 15/01/2026               |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | Sampling Quantity:   | 2.0 Ltr.                 |
|                                 |                                                                                                                                    | Sampling Type:       | Grab                     |
|                                 |                                                                                                                                    | Parameter Required:  | As per work order        |

| S. No. | Parameter                   | Test-Method                             | Result | Unit  |
|--------|-----------------------------|-----------------------------------------|--------|-------|
| 1.     | pH (at 25 °C)               | IS: 3025 (P-11)                         | 7.31   | --    |
| 2.     | Temperature                 | IS: 3025 (P-9)                          | 23.8   | °C    |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                         | 316    | µS/cm |
| 4.     | Turbidity                   | IS: 3025 (P-10)                         | 7.5    | NTU   |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                         | 158.00 | mg/L  |
| 6.     | Total Suspended Solids      | IS: 3025 (P-17)                         | 8.06   | mg/L  |
| 7.     | Dissolved Oxygen            | IS: 3025 (P-38)                         | 7.2    | mg/L  |
| 8.     | BOD (3 Days at 27°C)        | IS 3025 (P-44)                          | 5.50   | mg/L  |
| 9.     | Chemical Oxygen Demand      | APHA, 5220 B Open Reflux Method         | 17.36  | mg/L  |
| 10.    | P-Alkalinity                | IS: 3025 (P-51)                         | Nil    | mg/L  |
| 11.    | M-Alkalinity                | IS: 3025 (P-51)                         | 132.64 | mg/L  |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                         | 95.32  | mg/L  |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                         | 27.91  | mg/L  |
| 14.    | Total Hardness              | IS: 3025 (P-21)                         | 122.96 | mg/L  |
| 15.    | Sodium                      | IS: 3025 (P-45)                         | 10.74  | mg/L  |
| 16.    | Potassium                   | IS: 3025 (P-45)                         | 1.2    | mg/L  |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 7.4    | mg/L  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 6.2    | mg/L  |
| 19.    | Fluoride as F               | APHA 4500 F D                           | 0.37   | mg/L  |



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## Test Report

| Sample Number: VEL/W/10 |                              |                                              | Report No.: VEL/W/2601190010 |           |
|-------------------------|------------------------------|----------------------------------------------|------------------------------|-----------|
| S. No.                  | Parameter                    | Test-Method                                  | Result                       | Unit      |
| 20.                     | Chloride as Cl               | IS: 3025 (P-32)                              | 8.79                         | mg/L      |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 15.20                        | mg/L      |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 2.08                         | mg/L      |
| 23.                     | Total Organic Carbon         | IS: 3025 (P-69)                              | 0.43                         | mg/L      |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)               | mg/L      |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)               | mg/L      |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005)              | mg/L      |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 39.                     | Total coliform               | IS 1622                                      | 27                           | 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\*\*\*



**NITIN KUMAR**  
Sr. Microanalyst  
24/01/26



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## Test Report

|                                 |                                                                                                                                    |                      |                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sample Number:                  | VEL/W/11                                                                                                                           | Report No.:          | VEL/W/2601190011         |
| Name & Address of the Project:  | M/s Nabinagar Power Generating Company (NPGC)<br>Shivanpur, P.O.-Ankhora Railway Station, Bihar<br>Aurangabad, Bihar-824303, India | Format No.:          | 7.8 F-03                 |
|                                 |                                                                                                                                    | Party Reference No.: | 4000334115-057-1019      |
|                                 |                                                                                                                                    | Dated:               | 30.05.2024               |
|                                 |                                                                                                                                    | Reporting Date:      | 24/01/2026               |
|                                 |                                                                                                                                    | Period of Analysis:  | 19/01/2026 to 24/01/2026 |
| Sample Description:             | Surface Water                                                                                                                      | Receipt Date:        | 19/01/2026               |
| Sample Location:                | Saduri Karma Pond                                                                                                                  | Sampling Date:       | 15/01/2026               |
| Sample Collected by:            | Vardan Envirolab Representative                                                                                                    | Sampling Quantity:   | 2.0 ltr.                 |
| Preservation:                   | Refrigerated                                                                                                                       | Sampling Type:       | Grab                     |
| Sampling and Analysis Protocol: | APHA & IS                                                                                                                          | Parameter Required:  | As per work order        |

| S. No. | Parameter                   | Test-Method                             | Result | Unit  |
|--------|-----------------------------|-----------------------------------------|--------|-------|
| 1.     | pH (at 25 °C)               | IS: 3025 (P-11)                         | 7.43   | --    |
| 2.     | Temperature                 | IS:3025 (P-9)                           | 25.6   | °C    |
| 3.     | Electrical Conductivity     | IS: 3025 (P-14)                         | 346    | µS/cm |
| 4.     | Turbidity                   | IS: 3025 (P-10)                         | 7.4    | NTU   |
| 5.     | Total Dissolved Solids      | IS: 3025 (P-16)                         | 173.00 | mg/L  |
| 6.     | Total Suspended Solids      | IS: 3025 (P-17)                         | 7.45   | mg/L  |
| 7.     | Dissolved Oxygen            | IS: 3025 (P-38)                         | 6.5    | mg/L  |
| 8.     | BOD (3 Days at 27°C)        | IS 3025 (P-44)                          | 7.42   | mg/L  |
| 9.     | Chemical Oxygen Demand      | APHA, 5220 B Open Reflux Method         | 21.50  | mg/L  |
| 10.    | P-Alkalinity                | IS: 3025 (P-51)                         | Nil    | mg/L  |
| 11.    | M-Alkalinity                | IS: 3025 (P-51)                         | 120.16 | mg/L  |
| 12.    | Calcium Hardness            | IS: 3025 (P-40)                         | 83.49  | mg/L  |
| 13.    | Magnesium Hardness          | APHA, 3500 Mg B                         | 23.87  | mg/L  |
| 14.    | Total Hardness              | IS: 3025 (P-21)                         | 101.34 | mg/L  |
| 15.    | Sodium                      | IS: 3025 (P-45)                         | 11.89  | mg/L  |
| 16.    | Potassium                   | IS: 3025 (P-45)                         | 1.5    | mg/L  |
| 17.    | Sulphate as SO <sub>4</sub> | IS: 3025 (P-24)                         | 4.6    | mg/L  |
| 18.    | Nitrate as NO <sub>3</sub>  | IS 3025 (Part -34), Chromotropic Method | 2.5    | mg/L  |
| 19.    | Fluoride as F               | APHA 4500 F D                           | 0.39   | mg/L  |



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## Test Report

| Sample Number: VEL/W/11 |                              |                                              | Report No.: VEL/W/2601190011 |           |
|-------------------------|------------------------------|----------------------------------------------|------------------------------|-----------|
| S. No.                  | Parameter                    | Test-Method                                  | Result                       | Unit      |
| 20.                     | Chloride as Cl               | IS: 3025 (P-32)                              | 13.05                        | mg/L      |
| 21.                     | Reactive Silica              | IS: 3025 (P-35)                              | 9.46                         | mg/L      |
| 22.                     | Colloidal Silica             | IS: 3025 (P-35)                              | 1.16                         | mg/L      |
| 23.                     | Total Organic Carbon         | IS: 3025 (P-69)                              | 0.46                         | mg/L      |
| 24.                     | Boron                        | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 25.                     | Iron as Fe                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 26.                     | Copper as Cu                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 27.                     | Zinc as Zn                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 28.                     | Manganese as Mn              | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.01)                | mg/L      |
| 29.                     | Nickel as Ni                 | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 30.                     | Arsenic as As                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.005)               | mg/L      |
| 31.                     | Vanadium as V                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 32.                     | Lead as Pb                   | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 33.                     | Chromium as Cr <sup>3+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 34.                     | Chromium as Cr <sup>6+</sup> | IS:3025 (P-52)                               | BLQ(LOQ-0.05)                | mg/L      |
| 35.                     | Selenium as Se               | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.001)               | mg/L      |
| 36.                     | Cadmium as Cd                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 37.                     | Mercury as Hg                | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.0005)              | mg/L      |
| 38.                     | Total Chromium as Cr         | VEL/W/STP -03, Issue No. 01, 01/11/2023:2023 | BLQ(LOQ-0.002)               | mg/L      |
| 39.                     | Total coliform               | IS 1622                                      | 22                           | 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\*\*\*



**NITIN KUMAR**  
Sr. Microbiologist  
(with 24/01/26)



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## Test Report

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

Report No.: VEL/AP/2601170001  
Format No.: 7.8 F-03  
Party Reference No.: 4000334115-057-1019  
Dated 30.05.2024  
Reporting Date: 20/01/2026  
Receipt Date: 17/01/2026

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 <sub>Max</sub> ) | (L <sub>Min</sub> ) | (L <sub>eq</sub> ) | (L <sub>Max</sub> ) | (L <sub>Min</sub> ) | (L <sub>eq</sub> ) |
| 1.                                          | Turbine Area       | 12/01/2026-13/01/2026 | 66.7                | 49.9                | 57.48              | 55.9                | 40.3                | 51.43              |
| 2.                                          | Compressor Area    | 12/01/2026-13/01/2026 | 63.4                | 53.6                | 56.23              | 57.8                | 43.7                | 50.39              |
| 3.                                          | DG Area            | 12/01/2026-13/01/2026 | 59.6                | 47.3                | 54.75              | 54.4                | 41.5                | 52.03              |
| 4.                                          | Plant Area         | 12/01/2026-13/01/2026 | 60.1                | 45.4                | 52.63              | 50.1                | 42.8                | 47.15              |
| 5.                                          | Outside Plant Area | 12/01/2026-13/01/2026 | 61.3                | 50.1                | 53.42              | 56.7                | 41.9                | 53.26              |
| 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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### AAQMS Data (Oct-2025 to Mar-2026)

| Parameters →         |                | PM <sub>2.5</sub>   | PM <sub>10</sub>    | SO <sub>2</sub>     | NO <sub>2</sub>     | CO                | O <sub>3</sub>     | NH <sub>3</sub>     |
|----------------------|----------------|---------------------|---------------------|---------------------|---------------------|-------------------|--------------------|---------------------|
| UOM →                |                | µg/m <sup>3</sup>   | µg/m <sup>3</sup>   | µg/m <sup>3</sup>   | µg/m <sup>3</sup>   | mg/m <sup>3</sup> | µg/m <sup>3</sup>  | µg/m <sup>3</sup>   |
| 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** → |                | 60                  | 100                 | 80                  | 80                  | 4                 | 100                | 400                 |
| Oct-25               | Admn. Building | 34.28               | 53.30               | 14.75               | 23.60               | 0.60              | 25.18              | BDL                 |
|                      | RWPH           | 34.54               | 53.59               | 15.37               | 23.48               | 0.60              | 23.29              | BDL                 |
|                      | H-Block        | 34.53               | 53.73               | 14.13               | 23.28               | 0.66              | 23.46              | BDL                 |
|                      | Shivanpur Gate | 35.01               | 52.77               | 14.71               | 23.53               | 0.65              | 22.88              | BDL                 |
| Nov-25               | Admn. Building | 38.22               | 58.54               | 15.14               | 25.40               | 0.63              | 25.67              | BDL                 |
|                      | RWPH           | 37.93               | 58.09               | 15.24               | 25.08               | 0.63              | 25.29              | BDL                 |
|                      | H-Block        | 38.33               | 57.88               | 15.74               | 25.22               | 0.67              | 25.17              | BDL                 |
|                      | Shivanpur Gate | 38.42               | 58.19               | 15.83               | 25.07               | 0.68              | 24.92              | BDL                 |
| Dec-25               | Admn. Building | 39.79               | 59.81               | 16.20               | 26.12               | 0.64              | 26.92              | BDL                 |
|                      | RWPH           | 40.06               | 59.74               | 15.85               | 26.51               | 0.66              | 27.16              | BDL                 |
|                      | H-Block        | 40.36               | 59.86               | 16.23               | 26.60               | 0.70              | 26.04              | BDL                 |
|                      | Shivanpur Gate | 40.42               | 59.92               | 16.86               | 27.09               | 0.72              | 26.44              | BDL                 |
| Jan-26               | Admn. Building | 43.27               | 67.06               | 16.90               | 26.62               | 0.63              | 26.56              | BDL                 |
|                      | RWPH           | 44.26               | 67.41               | 17.44               | 26.62               | 0.65              | 26.82              | BDL                 |
|                      | H-Block        | 43.71               | 67.03               | 16.52               | 27.00               | 0.63              | 26.26              | BDL                 |
|                      | Shivanpur Gate | 44.16               | 66.61               | 17.28               | 27.27               | 0.65              | 26.29              | BDL                 |
| Feb-26               | Admn. Building | 40.44               | 64.53               | 15.92               | 25.47               | 0.61              | 25.13              | BDL                 |
|                      | RWPH           | 42.20               | 65.03               | 15.37               | 25.84               | 0.63              | 26.06              | BDL                 |
|                      | H-Block        | 41.59               | 65.05               | 16.03               | 26.42               | 0.61              | 25.73              | BDL                 |
|                      | Shivanpur Gate | 42.33               | 64.57               | 15.53               | 25.96               | 0.62              | 25.65              | BDL                 |
| Mar-26               | Admn. Building | 38.08               | 62.59               | 15.55               | 24.92               | 25.53             | 0.63               | BDL                 |
|                      | RWPH           | 40.33               | 63.14               | 15.11               | 25.29               | 0.64              | 25.04              | BDL                 |
|                      | H-Block        | 39.71               | 63.15               | 15.25               | 24.81               | 0.61              | 25.49              | BDL                 |
|                      | Shivanpur Gate | 40.23               | 62.64               | 15.33               | 25.73               | 0.65              | 25.56              | BDL                 |

\* BELOW DETECTION LIMIT

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

नवविहार गार्डम्ब  
03 जनवरी - 2011



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

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

जल संरक्षण-जीवन संरक्षण



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27.02.2011Centre for Development of  
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Academic Block, B-30, Sector-62, Noida-201 307, INDIAWebsite: [www.cdac.ac.in](http://www.cdac.ac.in)  
E-mail: [cdac@cdac.ac.in](mailto:cdac@cdac.ac.in)  
Phone: 0120-2337173, Fax: 0120-2337174

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in posts of Specialists Grade-II (Jr. Scale) in ESI Hospitals of E.S.I.  
The number of vacancies and other details are given below:-

| SC | ST | OBC | UR  | Total |
|----|----|-----|-----|-------|
| 60 | -  | 21  | 20  | 58    |
| 07 | -  | 06  | 05  | 19    |
| 06 | 04 | 06  | 04  | 24    |
| 08 | 06 | 09  | 03  | 26    |
| 05 | 03 | 06  | 03  | 18    |
| 02 | -  | 10  | 15  | 25    |
| 01 | -  | 08  | 19  | 27    |
| 03 | -  | 07  | 18  | 25    |
| -  | -  | 07  | 10  | 17    |
| 02 | -  | 10  | 14  | 24    |
| 08 | 02 | 23  | 19  | 45    |
| 06 | 01 | 04  | 22  | 26    |
| -  | -  | 04  | -   | 04    |
| 02 | 02 | 07  | 01  | 10    |
| 03 | 01 | -   | 01  | 02    |
| -  | -  | -   | 01  | 01    |
| -  | 01 | -   | -   | 01    |
| -  | 04 | 02  | -   | 06    |
| 02 | 01 | 52  | -   | 53    |
| -  | 25 | 129 | 166 | 382   |

Please depending upon the actual requirement.  
Pay of Rs. 6000/- plus Non-Practising Allowance (NPA) as stipulated in  
the Rules.CST & OBC candidates should be as per Govt. of India instructions. The detailed  
details of the E.S.I.C. vacancies are in the prospectus. The candidates willing to apply for  
the detailed advertisement regarding pay scale, eligibility criteria, age,  
etc.Vacancies are 27-01-2011. Last date for receipt of application from candidates  
including Postgraduate, Assistant, Manager, New Delhi, Tirunelveli, Madurai,  
Tamil Nadu and South Central Railway Sub-Division of Chennai (District  
of Madurai) and other railways will be 03-02-2011.

M. Director (Recd.)

And many more...

For these and many such job opportunities, read  
Shine Weekly every Tuesday with Hindustan Times.NABINAGAR POWER GENERATING COMPANY PVT. LTD.  
(A Joint Venture Company of NTPC & BSEB)NABINAGAR SUPER THERMAL POWER PROJECT  
PUBLIC NOTICEIt is notified for the invitation of all concerned persons from across India  
to participate in the Nabinagar Super Thermal Power Project being established at Nabinagar  
in Nabinagar Block in Aurangabad district in the State of Bihar has been awarded  
to Nabinagar Super Thermal Power Project by the Ministry of Environment and Forests, Govt. of  
India on 27 December, 2010. Copies of clearance letter are available with  
the State Pollution Control Board, Aurangabad and may also be seen at website  
of Ministry of Environment and Forests at <http://www.mef.gov.in>Chief Executive Officer  
NABINAGAR POWER GENERATING COMPANY PVT. LIMITED  
Nabinagar Super Thermal power project  
Site Office: BSEB Colony, Nabinagar,  
Aurangabad - (Bihar)

Transforming Lives

ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI-110 023

Dated: 3rd January 2011

Open Selection (i.e. 3rd Counselling)  
to be held on 28.01.2011Selection 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  | 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% of  
above marks is available on AIIMS website [www.aiims.ac.in](http://www.aiims.ac.in)  
and [www.aiims.edu](http://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 along with 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., (along with 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  
merit/rank of candidates in the entrance examination and on  
the basis of the conditions 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. GUPTA)  
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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 :

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 बृहत् ताप विद्युत परियोजना को पर्यावरणीय स्वीकृति दिये जाने के संबंध में।

गहाशय,

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

संक्त स्वीकृति की प्रतिलिपि सादर संलग्न की जा रही है।

संलग्न:- पर्यावरणीय स्वीकृति की प्रति।

मीरादेवी

*(Signature)*

ओ० पी० शर्मा

अपर महाप्रबंधक (परियोजना)

नबीनगर बृहत् 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 / 292126, Fax : 244240 / 244162

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

परियोजना कार्यालय : एन टी पी सी जवन बलो नवीननगर न बरुण औरंगाबाद जिला बिहार - 824 101



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/पर्या0/0311/1584-82

दिनांक :

Date: 11.03.2011

सेवा में,

मुखिया,

ग्राम पंचायत, अकोरहा।

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।

सुखरंजी देवी  
23.3.2011

ओ पी 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.

बिहार राज्य विद्युत बोर्ड : एन टी पी सी जॉइंट वेंचर लिमिटेड : 11, बिहार राज्य विद्युत बोर्ड भवन, बाइली रोड, पटना - 800 001



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 बृहत् 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 बृहत् 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।

जीतम कुमार

ओमप्रकाश शर्मा

ओ0 पी0 शर्मा

अपर महाप्रबंधक (परियोजना)

नबीनगर बृहत् 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 : 08186 - 244204 / 292131 / 292128, Fax : 244240 / 244162

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

नवीनगर पावर जेनरेटिंग कम्पनी प्रा० लि०, एनटीपीसी लिमिटेड, बीएसईबी कॉलोनी, सोननगर, बारुण, जिला-औरंगाबाद - 824 101 (बिहार)



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

**Nabinagar Power Generating Co. Pvt. Limited**

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

परियोजना कार्यालय / Project Office

संदर्भ :

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

दिनांक :

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।

अपनी प्रतिक्रिया

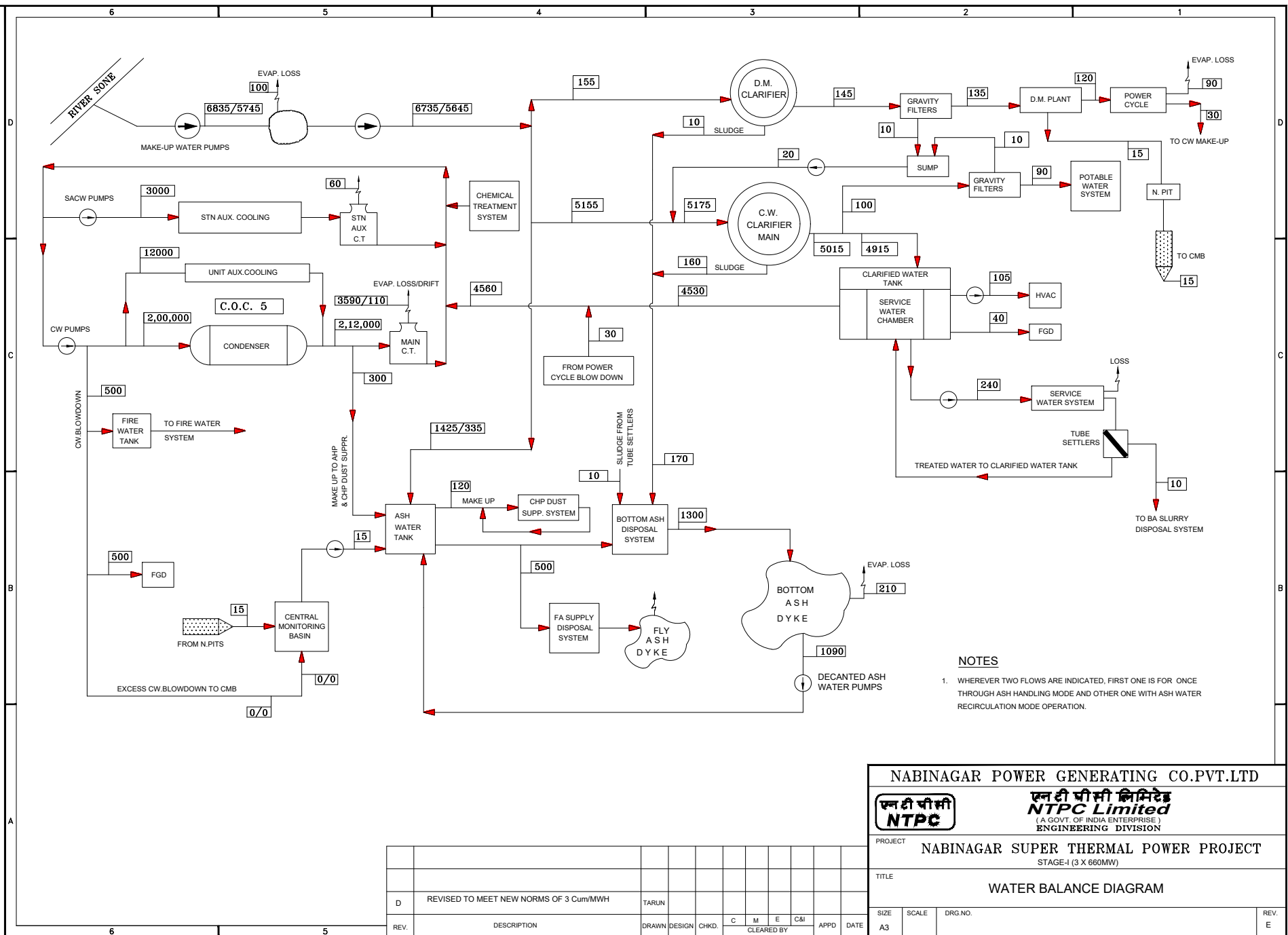
ओ0 पी0 शर्मा

अपर महाप्रबंधक (परियोजना)

नबीनगर वृहत् ताप विद्युत परियोजना

परियोजना कार्यालय, नबीनगर, औरंगाबाद

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NABINAGAR POWER GENERATING CO.PVT.LTD

एन टी सी  
NTPC

एन टी सी लिमिटेड  
NTPC Limited  
(A GOVT. OF INDIA ENTERPRISE)  
ENGINEERING DIVISION

PROJECT NABINAGAR SUPER THERMAL POWER PROJECT  
STAGE-I (3 X 660MW)

TITLE WATER BALANCE DIAGRAM

REV. E

## Stack Emission Data (Oct-2025 to Mar-2026)

| UNIT_NO | Installed Capacity (MW) | PM (mg/Nm <sup>3</sup> ) |                          |                          | SO <sub>2</sub> (mg/Nm <sup>3</sup> ) |                          |                          | NOx (mg/Nm <sup>3</sup> ) |                          |                          | 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-25  |                         |                          |                          |                          |                                       |                          |                          |                           |                          |                          |                       |                          |                          |
| 1       | 660                     | 30                       | 25                       | 25                       | 100                                   | 1197                     | 1272                     | 100                       | 269                      | 279                      | 0.03                  | BDL                      | ≤0.005                   |
| 2       | 660                     | 30                       | 25                       | 26                       | 100                                   | 1216                     | 1267                     | 100                       | 238                      | 277                      | 0.03                  | BDL                      | ≤0.005                   |
| 3       | 660                     | 30                       | 24                       | 25                       | 100                                   | 1255                     | 1275                     | 100                       | 262                      | 277                      | 0.03                  | BDL                      | ≤0.005                   |
| Nov-25  |                         |                          |                          |                          |                                       |                          |                          |                           |                          |                          |                       |                          |                          |
| 1       | 660                     | 30                       | 24                       | 26                       | 100                                   | 1199                     | 1282                     | 100                       | 277                      | 283                      | 0.03                  | BDL                      | ≤0.005                   |
| 2       | 660                     | 30                       | 25                       | 26                       | 100                                   | 1219                     | 1281                     | 100                       | 242                      | 285                      | 0.03                  | BDL                      | ≤0.005                   |
| 3       | 660                     | 30                       | 25                       | 26                       | 100                                   | 1258                     | 1278                     | 100                       | 265                      | 279                      | 0.03                  | BDL                      | ≤0.005                   |
| Dec-25  |                         |                          |                          |                          |                                       |                          |                          |                           |                          |                          |                       |                          |                          |
| 1       | 660                     | 30                       | NA                       | NA                       | 100                                   | NA                       | NA                       | 100                       | NA                       | NA                       | 0.03                  | BDL                      | ≤0.005                   |
| 2       | 660                     | 30                       | 25                       | 26                       | 100                                   | 1228                     | 1293                     | 100                       | 252                      | 289                      | 0.03                  | BDL                      | ≤0.005                   |
| 3       | 660                     | 30                       | 25                       | 26                       | 100                                   | 1266                     | 1285                     | 100                       | 269                      | 282                      | 0.03                  | BDL                      | ≤0.005                   |
| Jan-26  |                         |                          |                          |                          |                                       |                          |                          |                           |                          |                          |                       |                          |                          |
| 1       | 660                     | 30                       | 25                       | 25                       | 100                                   | 1207                     | 1207                     | 100                       | 286                      | 286                      | 0.03                  | BDL                      | ≤0.005                   |
| 2       | 660                     | 30                       | 26                       | 26                       | 100                                   | 1236                     | 1286                     | 100                       | 248                      | 286                      | 0.03                  | BDL                      | ≤0.005                   |
| 3       | 660                     | 30                       | 26                       | 27                       | 100                                   | 1271                     | 1277                     | 100                       | 272                      | 278                      | 0.03                  | BDL                      | ≤0.005                   |
| Feb-26  |                         |                          |                          |                          |                                       |                          |                          |                           |                          |                          |                       |                          |                          |
| 1       | 660                     | 30                       | 24                       | 26                       | 100                                   | 1215                     | 1273                     | 100                       | 275                      | 282                      | 0.03                  | BDL                      | ≤0.005                   |
| 2       | 660                     | 30                       | 24                       | 25                       | 100                                   | 1241                     | 1279                     | 100                       | 244                      | 283                      | 0.03                  | BDL                      | ≤0.005                   |
| 3       | 660                     | 30                       | 25                       | 26                       | 100                                   | 1279                     | 1283                     | 100                       | 276                      | 280                      | 0.03                  | BDL                      | ≤0.005                   |
| Mar-26  |                         |                          |                          |                          |                                       |                          |                          |                           |                          |                          |                       |                          |                          |
| 1       | 660                     | 30                       | 25                       | 26                       | 100                                   | 1224                     | 1286                     | 100                       | 276                      | 279                      | 0.03                  | BDL                      | ≤0.005                   |
| 2       | 660                     | 30                       | 24                       | 26                       | 100                                   | 1249                     | 1286                     | 100                       | 250                      | 288                      | 0.03                  | BDL                      | ≤0.005                   |
| 3       | 660                     | 30                       | 25                       | 25                       | 100                                   | 1270                     | 1290                     | 100                       | 274                      | 278                      | 0.03                  | BDL                      | ≤0.005                   |

**BDL - Below Detection Limit**

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

| Monthly Water Consumption from Oct-25 to Mar-26 |        |                                                               |                                                  |                                                |                                      |         |                         |                                       |
|-------------------------------------------------|--------|---------------------------------------------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------|---------|-------------------------|---------------------------------------|
| 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'25 | 2568438                                                       | 2530745                                          | 37693                                          | 1097.52                              | 74.50   | 2.34                    | 2.31                                  |
| 2                                               | Nov'25 | 2252949                                                       | 2219188                                          | 33761                                          | 1056.60                              | 74.12   | 2.13                    | 2.10                                  |
| 3                                               | Dec'25 | 1643105                                                       | 1606617                                          | 36488                                          | 867.14                               | 58.86   | 1.89                    | 1.85                                  |
| 4                                               | Jan'26 | 2109649                                                       | 2075715                                          | 33934                                          | 958.53                               | 65.07   | 2.20                    | 2.17                                  |
| 5                                               | Feb'26 | 2895693                                                       | 2869108                                          | 26585                                          | 1119.19                              | 84.11   | 2.59                    | 2.56                                  |
| 6                                               | Mar'26 | 2947109                                                       | 2912250                                          | 34859                                          | 1153.17                              | 78.28   | 2.56                    | 2.53                                  |

# Status of Recommendations of the Joint Committee for NSTPP , Aurangabad



| S.N | Recommendation                                                                                                                        | Action Plan                                                                                                                                                                                                                                                                      |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Wheel washing system may be installed at the out gate of the Ash Dyke.                                                                | In compliance to the recommendation manual wheel washing system has already been installed and operational. Photographs attached as <b><u>Annexure-A</u></b><br>Permanent Wheel washing facility :Pipe laying work completed , Civil work (sump and drain works under progress ) |
| 2.  | The connecting road between Highway and Ash dyke should be made up of RCC.                                                            | The work of RCC road between Highway and Ash dyke has been completed. <b><u>Annexure-1.</u></b>                                                                                                                                                                                  |
| 3.  | Vehicle transporting Fly Ash may be covered form all sided so that fly ash cannot spillover to environment.                           | Covering of all Ash transporting vehicles (from all sides) is being ensured. Photograph is attached as <b><u>Annexure-2.</u></b>                                                                                                                                                 |
| 4.  | Overload may be stopped.                                                                                                              | Overloading of Hywas has been stopped completely and is being ensured.                                                                                                                                                                                                           |
| 5.  | Mechanical vacuum cleaning system may be in place to clean all RCC roads on regular basis and collected ash may be disposed properly. | Purchase Requisition (PR) vide No.200155143, has been initiated for hiring the services of truck mounted road sweeper at NSTPS & till the same is in place, manual sweeping / scrubbing and water sprinkling on road being ensured on regular basis.                             |
| 6.  | Ensure 100% ash utilization within by next year as per the Environmental Clearance conditions.                                        | NSTPS falls under Category-C.<br>Ash utilization in FY 2025-26 (till March) is 137.28%. Station is committed for 100% Ash utilization for which all potential sectors for Ash utilization is being explored.                                                                     |



# Status of recommendations of the Joint Committee for NSTPP , Aurangabad



| S N | Recommendation                                                                                                                                                                                                                                                                                                                                                                    | Action Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.  | The unit may ensure Zero Liquid Discharge, no discharge from the Ash Dyke and ensure installation of Oil & Grease section to the ETP as per the requirement.                                                                                                                                                                                                                      | ZLD system is in place. Scheme is attached as <b><u>Annexure-3.</u></b><br>Ash Water Recirculation System (AWRS) is operational. AWRS Pump House <b><u>Annexure-4.</u></b><br>Oil & Grease section is operational in ETP. <b><u>Annexure-5.</u></b>                                                                                                                                                                                                                                                                                                      |
| 8.  | The unit may ensure maintenance of the water spraying system at Wagon Tippler section and stop unloading till the system put in operation.                                                                                                                                                                                                                                        | Wagon Tippler water spraying system is in operation and regular maintenance is being made for ensuring 100% availability. <b><u>Annexure-6.</u></b>                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9.  | Unit may comply specific Condition No. 3, 4, 15, 16, 17, 18, 19 of the Environmental Clearance within one year.                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9.1 | (SC-3) Provision for installation of FGD shall be provided for future use.                                                                                                                                                                                                                                                                                                        | Installation of FGD in all 03 Units are in progress and the station is committed for its commissioning before the stipulated date. <b><u>Annexure-7.</u></b>                                                                                                                                                                                                                                                                                                                                                                                             |
| 9.2 | (SC-4) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> . 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. | Being complied.<br>ESP with high efficiency of 99.97% is in place & operational in all units to maintain PM emission <30 mg/Nm <sup>3</sup> . <b><u>Annexure-8.</u></b><br>The following measures are being taken to control Fugitive dust emission:<br>CHP area: Water sprinkler, pre wetting system & DS in place & operational.<br>AHP area: Water spraying system in silo,<br>Ash Dyke: Water sprinkling network, ponding<br>Others: Green cover, sprinkling in dust prone areas.<br>Dust suppression measures <b><u>Annexure-9 Annexure -9A</u></b> |



# Status of Recommendations of the Joint Committee for NSTPP , Aurangabad



| S N | Recommendation                                                                                                                                                                                                                                                                                                                                                                         | Action Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.3 | (SC-15) Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.                                                                                                                                                                                           | NSTPS falls in Category-C. 137.28 % Ash Utilization done in FY 2025-26 (till Feb -26) and from the next FY onwards target will be >100%.<br>Station is committed to use 100% Ash Utilization.                                                                                                                                                                                                                                                                                                                                                                     |
| 9.4 | (SC-16) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area. | Complied.<br>Dry Fly Ash Extraction system (DAES), with storage facility (Silo 4X525 MT) are in place and operational.<br><br>Un-utilized fly ash is being disposed through High Concentrated Slurry Discharge (HCSD) and bottom ash through normal slurry mode in the Ash Pond.<br><br>Monitoring of bottom ash & effluent for heavy metals (As, Hg, Cr, Pb etc.) is being done on quarterly basis through a third party.<br><b><u>Annexure-10</u></b>                                                                                                           |
| 9.5 | (SC-17) Ash Pond shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.                                                                                                                                 | 03 nos. Lagoons are there for Ash disposal.<br>Lagoon#1 & 2: HCSD lining provided.<br>Lagoon# 3: Bentonite clay layer at base provided.<br><br>Adequate safety measures like regular round the clock monitoring, contract for attending observations, implementation of observations of cross function teams, Mock drill, annual audit etc. being done.<br>In addition to the above, Dyke stability is being checked by the institute of repute like IITs, NITs etc. for ensuring dyke safety, on a regular basis. Stability Analysis - <b><u>Annexure-11</u></b> |



## Status of Recommendations of the Joint Committee for NSTPP , Aurangabad



| S.N | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                      | Action Plan                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.6 | (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. | Request Letter has been submitted to M/s CCL for allotment of abandoned mines. <a href="#">Annexure-12</a><br><br>Station is committed to dispose the ash in the abandoned mines only after obtaining the necessary permissions as deemed fit from the authorities like DGMS / SPCB etc.                                                                                                                                                   |
| 9.7 | (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.<br>Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.                                                                                        | Green Belt consisting of 3 tiers of plantations of native species with specified tree density around the plant has been developed. <a href="#">Annexure-13</a><br><br>Native species planted are: Neam, Peepal, Amla, Jamun, Baheda, Sisam, Gudel, Sagwan, Mahogani, Mango, Guava, Amaltas, Bargad, Gulmahor, Kadam, Chitwan Etc.<br>Till Feb-26, 2,30,049 total nos. of saplings have been planted having survival rate of more than 75%. |

# Status of Recommendations of the Joint Committee for NSTPP , Aurangabad



| S.N | Recommendation                                                                                                                                                                                                                                                                                                                                        | Action Plan                                                                                                                                                                                                                                                    |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. | Unit may submit Specific Water Consumption, and Water Balance Report on yearly basis.                                                                                                                                                                                                                                                                 | Specific water consumption data is being provided regularly to CEA & BSPCB. <a href="#">Annexure-14</a><br><br>Water balance report is being generated on yearly basis.                                                                                        |
| 11. | Unit may ensure water spraying on all the dusty roads within and outside the premises caused by transportation of fly ash.                                                                                                                                                                                                                            | 08 no's of tractors with water tanker have been engaged for water spraying to control fugitive dust emissions in all the roads within and outside the premises where Fly Ash transportation vehicles are plying. <a href="#">Annexure-15</a>                   |
| 12. | Unit may ensure tree plantation in all vacant land within its premises and other probable places as per the regulations.                                                                                                                                                                                                                              | Tree plantation in all vacant land within its premises and other probable places have been undertaken and further shall be ensured for increasing their density. Miyawaki method of plantation has also been undertaken thr'u DFO. <a href="#">Annexure-13</a> |
| 13. | Unit ensure the implementations of the Solid Waste Management Rules, 2016, the Construction and Demolition Waste management Rules, 2016, the Plastic Waste Management Rules, 2016, the E-waste Management Rules, 2022, the Hazardous and Other Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and other waste management rules. | All applicable waste management rules is being complied & the returns are being submitted in time with the statutory Authorities. <a href="#">Annexure-16</a><br><br>Being complied.                                                                           |
| 14. | System at Effluent Treatment Plant (ETP) having sensor for pH, BOD, COD & TSS.                                                                                                                                                                                                                                                                        | EQMS is in place in ETP with the provision of online pH, BOD, COD & TSS. <a href="#">Annexure-17</a><br><br>Being complied                                                                                                                                     |





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## Construction of RCC connecting road (Annexure-1)



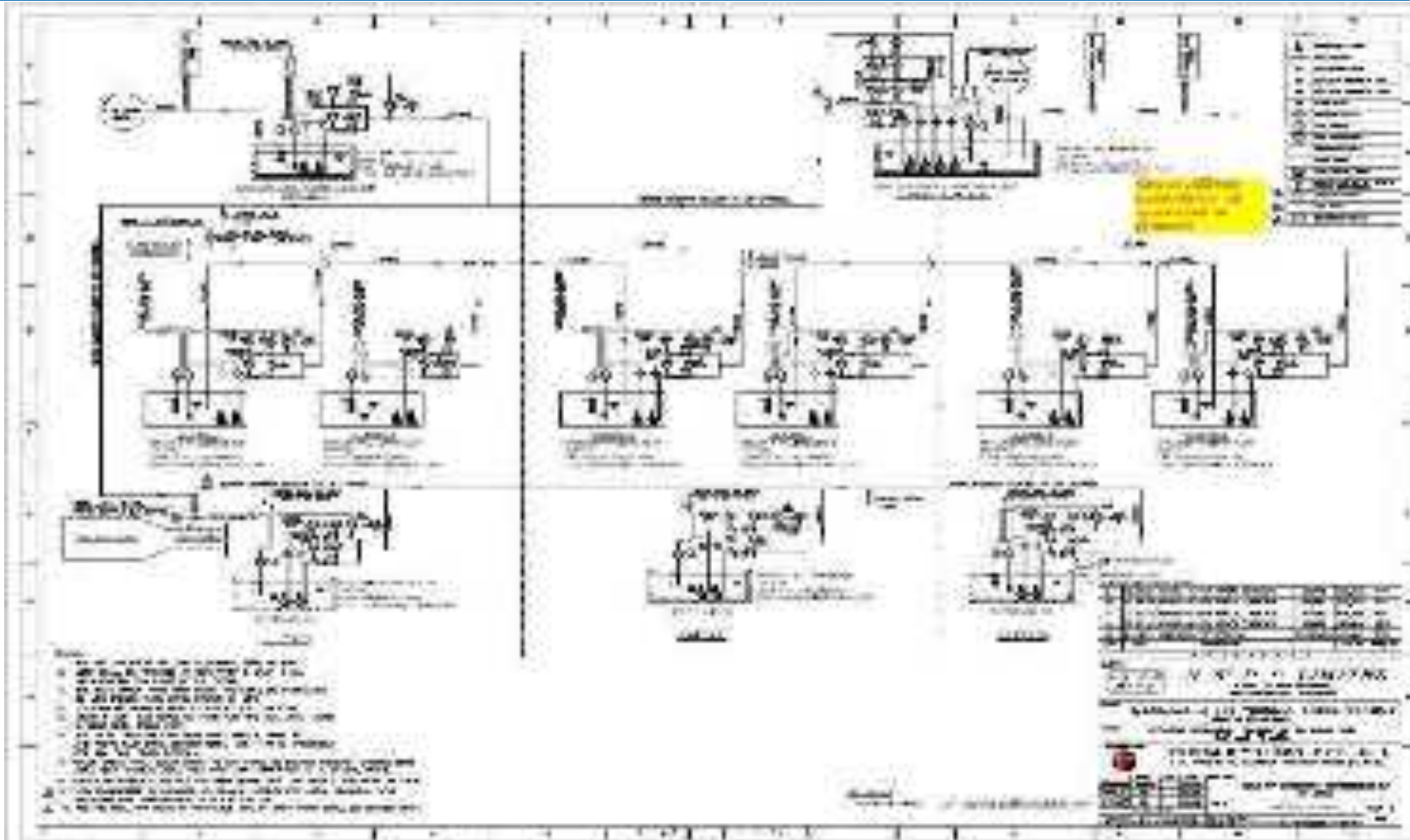
## Covering of all Ash Transporting Vehicles (Annexure-2)



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## ZLD Scheme Implemented (Annexure-3)



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## ■ AWRS Pump House Annexure-4



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## Wagon Tippler water spraying system (Annexure -6)



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## ■ FGD Installation (Annexure-7)



## ■ ESP Performance (Annexure-8)

|                                                                                                                                                                                         |                             |                                                                                     |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|--------------------|
| JHARKHAND POWER CORPORATION<br>Ranchi - 831 001                                                                                                                                         |                             |  |                    |
| <b>TECHNICAL REPORT</b>                                                                                                                                                                 |                             |                                                                                     |                    |
| <b>FURNACE WALL &amp; NOZZLE TEST</b>                                                                                                                                                   |                             |                                                                                     |                    |
| <b>ON</b>                                                                                                                                                                               |                             |                                                                                     |                    |
| <b>330 MW COAL FIRED POWER PLANT</b>                                                                                                                                                    |                             |                                                                                     |                    |
| PROJECT NAME                                                                                                                                                                            | COAL FUEL                   | PREPARED BY                                                                         | ONISH KUMAR S.     |
| PROJECT NO.                                                                                                                                                                             | 123                         | REVIEWED BY                                                                         | DR. ANAND KUMAR S. |
| TEST NO.                                                                                                                                                                                | WALL & NOZZLE TEST          | ISSUED BY                                                                           | DR. ANAND KUMAR S. |
| DATE                                                                                                                                                                                    | 12/01/2024                  | REVISION                                                                            | 01                 |
| <b>TEST TEAM</b>                                                                                                                                                                        |                             |                                                                                     |                    |
| NAME                                                                                                                                                                                    | ONISH KUMAR S.              |                                                                                     |                    |
| DESIGNATION                                                                                                                                                                             | SENIOR ENGINEER             |                                                                                     |                    |
| UNIT                                                                                                                                                                                    | JHARKHAND POWER CORPORATION |                                                                                     |                    |
| <b>SUMMARY</b>                                                                                                                                                                          |                             |                                                                                     |                    |
| This report contains the results of the tests conducted on the furnace wall & nozzle of the 330 MW Coal fired power plant. The test results are as follows:                             |                             |                                                                                     |                    |
| 1. The electrostatic precipitator is designed for collection efficiency of 99.99% corresponding to 10 mg/m <sup>3</sup> dust concentration at inlet of ESP. Design and field condition. |                             |                                                                                     |                    |
| 2. The measured collection efficiency at the above design condition is 99.99% corresponding to 10 mg/m <sup>3</sup> dust concentration.                                                 |                             |                                                                                     |                    |
| 3. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                        |                             |                                                                                     |                    |
| 4. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                        |                             |                                                                                     |                    |
| 5. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                        |                             |                                                                                     |                    |
| 6. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                        |                             |                                                                                     |                    |
| 7. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                        |                             |                                                                                     |                    |
| 8. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                        |                             |                                                                                     |                    |
| 9. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                        |                             |                                                                                     |                    |
| 10. The measured collection efficiency is 99.99% at an applied voltage of 100 kV.                                                                                                       |                             |                                                                                     |                    |
| It can be seen from the above results that the ESP meets the guaranteed value of 99.99%.                                                                                                |                             |                                                                                     |                    |

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## Dust suppression measures (Annexure-9)



Pre-wetting of coal



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## Dust suppression measures (Annexure-9A)



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# Monitoring Report of Bottom Ash & Effluent (Annexure-10)



## Test Report

**Client's Details:**  
 Name: Vardaan  
 Address: Plot No. 823, Sector - A, 8th Avenue, Saket, New Delhi - 110017, India  
 Contact: 011-26101000  
 Email: info@vardaan.com

**Test Details:**  
 Test No: 1001  
 Test Date: 10/10/2023  
 Test Time: 10:00 AM  
 Test Location: Plot No. 823, Sector - A, 8th Avenue, Saket, New Delhi - 110017, India

## Test Results

| S. No. | Parameter                    | Unit | Result | Limit |
|--------|------------------------------|------|--------|-------|
| 1.     | Moisture Content             | %    | 10.00  | 10.00 |
| 2.     | Loss on Ignition             | %    | 10.00  | 10.00 |
| 3.     | Gravimetric Water Content    | %    | 10.00  | 10.00 |
| 4.     | Gravimetric Solids Content   | %    | 10.00  | 10.00 |
| 5.     | Gravimetric Ash Content      | %    | 10.00  | 10.00 |
| 6.     | Gravimetric Fuel Content     | %    | 10.00  | 10.00 |
| 7.     | Gravimetric Carbon Content   | %    | 10.00  | 10.00 |
| 8.     | Gravimetric Hydrogen Content | %    | 10.00  | 10.00 |
| 9.     | Gravimetric Nitrogen Content | %    | 10.00  | 10.00 |
| 10.    | Gravimetric Sulfur Content   | %    | 10.00  | 10.00 |
| 11.    | Gravimetric Chlorine Content | %    | 10.00  | 10.00 |
| 12.    | Gravimetric Fluorine Content | %    | 10.00  | 10.00 |



## Test Results

| S. No. | Parameter                    | Unit | Result | Limit |
|--------|------------------------------|------|--------|-------|
| 1.     | Moisture Content             | %    | 10.00  | 10.00 |
| 2.     | Loss on Ignition             | %    | 10.00  | 10.00 |
| 3.     | Gravimetric Water Content    | %    | 10.00  | 10.00 |
| 4.     | Gravimetric Solids Content   | %    | 10.00  | 10.00 |
| 5.     | Gravimetric Ash Content      | %    | 10.00  | 10.00 |
| 6.     | Gravimetric Fuel Content     | %    | 10.00  | 10.00 |
| 7.     | Gravimetric Carbon Content   | %    | 10.00  | 10.00 |
| 8.     | Gravimetric Hydrogen Content | %    | 10.00  | 10.00 |
| 9.     | Gravimetric Nitrogen Content | %    | 10.00  | 10.00 |
| 10.    | Gravimetric Sulfur Content   | %    | 10.00  | 10.00 |
| 11.    | Gravimetric Chlorine Content | %    | 10.00  | 10.00 |
| 12.    | Gravimetric Fluorine Content | %    | 10.00  | 10.00 |

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# Ash Pond Stability (Annexure-11)



भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
के.पी. एम.ए.डी. कॉम्प्लेक्स, हैदराबाद  
फोन : (040) 2325 5022, फैक्स : (040) 2325 5023 / 22  
Indian Institute of Technology Hyderabad  
Kandi - 502285, Sangareddy, Telangana, INDIA  
Phone: (040) 2325 5022, Fax: (040) 2325 5023 / 22



Date: 08.07.2024

From:  
Dr B Unnikrishnan  
Professor  
Department of Civil Engineering  
IIT Hyderabad

To:  
GM (N&M)  
NTPS Mahanagar

Re: Report on STABILITY ANALYSIS OF ASH DYKES NTPS Mahanagar

NTPS Ref: Purchase Order No.: 4000324114-006-1065 Date: 19.01.2024  
Dear Sir:

This has reference to NTPS Mahanagar Order No.: 4000324114-015-1055 Dtd: 19.01.2024 regarding, CONSULTANCY SERVICES FOR THIRD PARTY CHECKING OF STABILITY ANALYSIS FOR CHECKING THE HEALTHINESS OF EXISTING ASH DYKES OF NTPS MAHANAGAR.

Please find enclosed the Certificate and Report on the same.

You may feel free to contact me for any clarifications on the same.

Sincerely,

Dr B Unnikrishnan  
Professor  
Department of Civil Engineering  
IIT Hyderabad  
Email: unnikrishnan@iit-hyderabad.ac.in

भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
के.पी. एम.ए.डी. कॉम्प्लेक्स, हैदराबाद  
फोन : (040) 2325 5022, फैक्स : (040) 2325 5023 / 22  
Indian Institute of Technology Hyderabad  
Kandi - 502285, Sangareddy, Telangana, INDIA  
Phone: (040) 2325 5022, Fax: (040) 2325 5023 / 22



Date: 08.07.2024

From:  
Dr B Unnikrishnan  
Professor  
Department of Civil Engineering  
IIT Hyderabad

To:  
GM (N&M)  
NTPS Mahanagar

Re: Confirmation of Stability of NTPS Mahanagar Ash Dykes

NTPS Ref: Purchase Order No.: 4000324114-015-1055 Dtd: 19.01.2024

Dear Sir:

This has reference to NTPS Mahanagar Order No.: 4000324114-015-1055 Dtd: 19.01.2024 regarding CONSULTANCY SERVICES FOR THIRD PARTY CHECKING OF STABILITY ANALYSIS FOR CHECKING THE HEALTHINESS OF EXISTING ASH DYKES OF NTPS MAHANAGAR.

All the items under scope of the work were carried out in an extensive manner as part of this study. A detailed report on the findings of the study is enclosed.

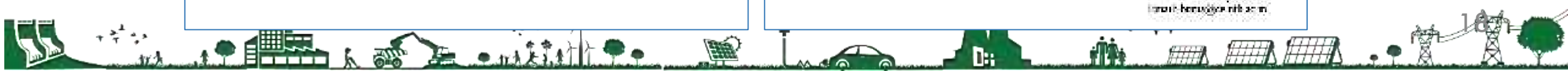
Based on the field visits and analysis, it is certified that the dykes namely I, II and III (A), and river escape and auxiliary structures are found to be functionally and structurally sound and safe. The remedial measures given in the report may be carried out on a priority basis.

You may feel free to contact me for any clarifications on the same.

Sincerely,

Dr B Unnikrishnan  
Professor  
Department of Civil Engineering  
IIT Hyderabad  
Email: unnikrishnan@iit-hyderabad.ac.in

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154-2172-184

The General Manager (M & S)  
General Coalfields Limited  
Parkhouse House, Ranchi

### Abstract

As per directives of the Ministry of Environment and Forests, MTEC Habinger has to achieve 100% sub-utilisation. We have tied up with some commercial entities and with some road construction projects for sub-utilisation, but their limited requirement of sub is not fulfilling our 100% sub-utilisation target as mandated by MoEF.

In view of the above, it is a humble request to allocate some abandoned relines in CCL for filling lowish ash. This will help us in meeting 100% ash utilization target and also landfilling of used relines will also be reduced.

† Patient is not eligible to receive a study drug because of a prior history of a seizure.

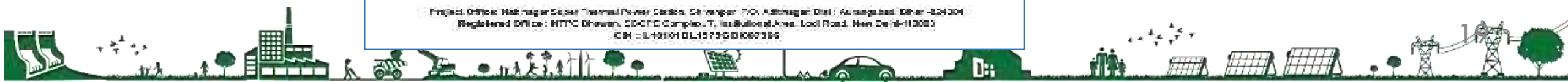
**Waktu kunjungan**

Hage

Ignat Kuyk  
National Director, Manager  
Fuel Management Department  
Webster STS, Aunzengrad

Project Office: Mahanagar Sahyadri Thermal Power Station, Chavanganj, P.O. Athangudi Dist.: Arunachal Pradesh-824304  
Registered Office: HTPC Bhawan, SOGEC Complex, T. Institutional Area, Lodhi Road, New Delhi-110028  
CIN - L49304 DL 1975000000000000

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## Tree Plantation (Annexure-13)



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## Water sprinkling on road through tankers ( Annexure -15)



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# Statutory Waste Returns (Annexure-16)

**FORM 4**  
(Annexure-16, Part A, Form No. 4)

**Return of Statutory Waste**  
(To be submitted by the person responsible for the management of waste for the purpose specified below)

**Waste Management Facility: NTPC Ltd. Power Plant, Faridkot**  
The following details are submitted for the purpose specified below:

1. Location of the waste management facility: NTPC Ltd. Power Plant, Faridkot  
2. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
3. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
4. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot

**Part A: Details of waste management facility**

| S. No. | Particulars                                                | Details                         |
|--------|------------------------------------------------------------|---------------------------------|
| 1.     | Name of the waste management facility                      | NTPC Ltd. Power Plant, Faridkot |
| 2.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 3.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 4.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 5.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 6.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 7.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 8.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 9.     | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |
| 10.    | Name of the person responsible for the management of waste | NTPC Ltd. Power Plant, Faridkot |

**FORM 4B**  
(Annexure-16, Part B, Form No. 4B)

**Return of Statutory Waste**  
(To be submitted by the person responsible for the management of waste for the purpose specified below)

**Waste Management Facility: NTPC Ltd. Power Plant, Faridkot**  
The following details are submitted for the purpose specified below:

1. Location of the waste management facility: NTPC Ltd. Power Plant, Faridkot  
2. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
3. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
4. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot

**Part B: Details of waste management facility**

1. Location of the waste management facility: NTPC Ltd. Power Plant, Faridkot  
2. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
3. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
4. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot

**FORM 4C**  
(Annexure-16, Part C, Form No. 4C)

**Return of Statutory Waste**  
(To be submitted by the person responsible for the management of waste for the purpose specified below)

**Waste Management Facility: NTPC Ltd. Power Plant, Faridkot**  
The following details are submitted for the purpose specified below:

1. Location of the waste management facility: NTPC Ltd. Power Plant, Faridkot  
2. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
3. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot  
4. Name of the person responsible for the management of waste: NTPC Ltd. Power Plant, Faridkot

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# Thank You



Website: [www.ntpc.co.in](http://www.ntpc.co.in) | Email: [hpnabinagar@ntpc.co.in](mailto:hpnabinagar@ntpc.co.in)

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