



Ref:1086/NSTPS/ Envt, Mgt./03/2023

Date: 30.12.2023

To,
The Ministry of Environment, Forest & Climate Change
Regional Office, Eastern Central Zone
Bunglow No A-2, Shyamli Colony
Ranchi- 834002
Email: ro.ranchi-mef@gov.in

**Sub**: Submission of Environment Condition Compliance Report for the period from April-2023 to Sep-2023 for NSTPS Nabinagar.

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

Ref: MOEF clearance award letter no J-13012/127/2007/IA.II (T) dt 14.01.2020.

Dear Sir,

With reference to the above, please find enclosed ECCR (Environment Condition Compliance Report) for the period from April-2023 to Sep-2023 of Nabinagar Super Thermal Power Station (3X660MW).

Yours Sincerely,

(Krishna Deo Pandey) DGM (EMG) NSTPS, Nabinagar.



S.N.	CONDITIONS	EC Compliance Report as on 30.09.2023			
	Specific Conditions				
SC-01	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Vision doc submitted with 1 <sup>st</sup> ECCR submitted or 27.05.2014.			
SC-02	Land requirement shall be restricted to 1500 acres (including ash pond).	<ul> <li>Total Land Acquired = 2972 Acres</li> <li>Stage I - (3x660MW)- Around 1500 Acre (including Ash Pond), Under execution.</li> <li>Stage II- (3x800MW) - around 1472 acres Proposed.</li> </ul>			
SC-03	Provision for installation of FGD shall be provided for future use.	FGD is provisioned and FGD work under progress.			
SC-04	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	• ESP with efficiency of 99.97% is operational in running units to limit PM emission <30 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.	<ul> <li>Provision for dust extraction system in coal handling area and ash handling areas including transfer points as well as other vulnerable dusty areas has been provisioned and being provided.</li> </ul>			
SC-05	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MoEF for suitable amendments to environmental clearance condition wherever necessary.	Being complied.  In case of variation in supply of coal quality, fresh reference shall be made to MoEF.			
SC-06	Stack of 275 m height shall be installed and provided with continuous online monitoring equipment for SOx, NOx 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> <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 ≥ 22 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.</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.				

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

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लैक्स,7 इंस्टीट्यूशनल एरिया, लोधी रोड़, नई दिल्ली—110003

Registered Office : NTPC Bhawan, SCOPE Complex, 7 Institutional Area, Lodhi Road, New Delhi-110 003 कॉरपोरेट आइडेंटिफिकेषन नम्बर/Corporate Identification Number : L40101DL1975G0I007966 वेबसाइट/website: www.ntpc.co.in

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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.	been conducted by National Institute of Hydrology, Roorkee. Report of study has already been submitted.  Hydro-geological study is being carried out by M/s Geoscience Consultancy Services Roorkee Vide PO No. 4000303494 dated 31.03.2023. Final report will be submitted once the study is completed.	
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 from Indrapuri Barrage on Sone River.	
No ground water shall be extracted for use in operation of the power plant even in lean season.		
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.	
Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/Rivers (as applicable) even in lean season.	The quantity of water drawn for Nabinagar STPS from Indrapuri Barrage shall be limited to committed quantity for the project by State Govt. and therefore minimum required environmental flow shall be maintained.	
COC (Cycle of Concentration) of 5.0 shall be adopted. The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant.  There shall be no discharge outside the plant boundary except during monsoon.  Arrangements shall be made that effluents and storm water do not get mixed.	COC of 5.0 has been adopted. Treated effluents are recycled and reused and plant has been designed for Zero liquid discharge.	
	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.  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.  No ground water shall be extracted for use in operation of the power plant even in lean season.  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.  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.  COC (Cycle of Concentration) of 5.0 shall be adopted. The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant.  There shall be no discharge outside the plant boundary except during monsoon.  Arrangements shall be made that effluents	

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	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	A sewage treatment plant installed and operational and the treated sewage is being sent to horticulture ring for raising greenbelt/plantation.	
SC-14	site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.  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  Site shall be generated within the sites (to the extent possible) so that natural drainage system for 100% extraction of down with suitable storage facilities had a utilization plan has been made utilization and all efforts are being the extent possible).	System for 100% extraction of dry fly ash alor with suitable storage facilities has been designed A utilization plan has been made for 100% fly as	
SC-15 U			
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.	Dry Fly Ash Extraction system (DAES) is under operational which collects 100% fly ash in dry form however, dry ash transportation by railway wagons is under construction. Unutilized fly ash shall be disposed through High Concentrated Slurry Discharge (HCSD) and bottom ash through normal slurry mode. Heavy metal monitoring of bottom ash is being carried out periodically. Report attached as <b>Annexure - 'A'</b> Heavy metal monitoring of Ash Pond effluent shall be carried out once as pond effluents are discharged.	
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.  NSTPS has different systems for cash and bottom ash:  High Concentration Slurry Disposal with Ast circulation for Bottom Ash. (Lagoon-I).  Wet Slurry Disposal with Ast circulation for Bottom Ash. (Lagoon is minimal.  In one bottom ash lagoon, 300 mm concentrated slurry is spread to mat impervious and in another BA lagor impervious liner of soil blended with the product of the protect the ash and bottom ash:  NSTPS has different systems for cash and bottom ash:  High Concentration Slurry Disposal with Ast circulation for Bottom Ash. (Lagoon-I).  In HCSD lagoon (01 No), the disposant are solidified, therefore leaching lagoon is minimal.  In one bottom ash lagoon, 300 mm concentrated slurry is spread to material impervious and in another BA lagor impervious liner of soil blended with the product of the protect the ash and bottom ash:  High Concentration Slurry Disposal with Ast circulation for Bottom Ash. (Lagoon-I).		NSTPS has different systems for disposal of Fly ash and bottom ash:  • High Concentration Slurry Disposal System (HCSD) for fly Ash (Lagoon-I).  • Wet Slurry Disposal with Ash Water Recirculation for Bottom Ash. (Lagoon – II & III).  In HCSD lagoon (01 No), the disposed layers of ash are solidified, therefore leaching from HCSD lagoon is minimal.  In one bottom ash lagoon, 300 mm thick high concentrated slurry is spread to make it impervious and in another BA lagoon 0.3m thick impervious liner of soil blended with bentonite to achieve a permeability <1X10 <sup>-6</sup> cm/sec is	

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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.	Various instruments (Piezometers, water level sounders, settlement markers) are installed in body of Ash Dyke at various locations for monitoring the health of ash dyke embankment. The supernatant from the Ash Dykes are recycled back to the plant to ensure minimum water inside ash dyke.  Adequate safety measures have already been incorporated at design & construction level so as to prevent dyke from breaching. Operational and preventive measures are in practice to prevent any occurrence of breaching.  Noted and disposal of Bottom Ash in abandoned mines is not envisaged. In case, it is carried out in future, it shall be carried out as per direction stipulated in EC conditions.
SC-19	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised, and adequate justification shall be submitted to the Ministry.  Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.	Green belt is being developed with plantation of native species with specified tree density and survival rate by Forest Department, Govt. of Bihar.  Approx. 1,48,000 Saplings have been planted under mass afforestation program with survival rate more than 75%.
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 per Hydro-Geological Study by NIH, Roorkee, the concentration of fluoride is within the prescribed limit (i.e.1.5 mg/L) for drinking water requirement in surface water nearby NSTPS project area.  However, as per NSTPS Nabinagar, R&R community development scheme, requisite amount has been deposited to Public Health

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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	plan under R&R scheme work has been
	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.	24. Further proposal for 4.65 crores, CD activities is under pipeline for award of the work in FY 2024-2025. For Balance amount 5.30 Cr, activities are under finalization with stakeholders and District administration. Detail appeared as
SC-22	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Special scheme for Bidi workers of Solapur shall be formulated. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs. Vocational training program for possible self-employment and jobs shall be imparted to identified villagers free of cost.	Being complied. The suggested activities are included in approved CD plan by DM, Aurangabad for its implementation based on need-based assessment. NSTPS, Nabinagar sponsored to 30 youths for skill development program at CIPET Hajipur, Agro based training like vermicomposting provided to 50 PAPs and Bee keeping training & honey production training has been provided to 50 PAPs, training for farmers and reimbursement of tuition fees for ITI course to the 115 PAPs/their wards. In future Agro based training shall be imparted as a part of CD plan. Vocational training for skill development to villagers and sewing training provided to girls in the villages. Different Infrastructure need based projects are also being undertaken such as Chhath ghats, community halls etc. at panchayat level.
SC-23	Shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Being complied. NSTPS/NTPC Limited has inbuilt own system for monitoring and implementation of complete CSR/R&R Community Development Plan at the Unit Level, Region level and corporate level. A specific social audit shall be undertaken after.

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	General Conditions			
		Approval of Central Ground Water Board (CGWB) granted for construction of Rainwater harvesting (RWH).  1. P.O. No. 5500041923 dated 06.01.2023 awarded for construction of 4 numbers of RWH near raw water reservoirs of NSTPS Plant. The same is under final stage and will be completed by March-2024.  2. PO No. 5500043203 dtd.06.09.2023 awarded for RWH at Township and same is under progress.		
GC-2	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Provision for adequate safety measures is being implemented as stipulated.  Details of safety measures and plant lay out has already been submitted to RO of ministry.		
GC-3	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives - Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	License for storage of LDO has been granted by department of Explosive, Nagpur on 16.10.2018 and is valid upto 31.12.2026.  Sulphur content in the liquid fuel does not exceed 0.5%.  On-site Disaster Management Plan has been prepared and approved for implementation.		
GC-4 Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers.  Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and 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.				

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GC-5	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.	
GC-6	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid and sanitation arrangements have been made for the drivers and other contract workers. Toilets and drinking water arrangement are being made at main plant area.
GC-7	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/earmuffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.	Noise level monitoring being done. Noise level monitoring report is attached as <b>Annexure-D</b> 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> , NOx, 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	
GC-9	the website of the company.  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	Housing of construction labour (as applicable) with all necessary infrastructure and facilities are being provided within the site by concerned agencies as per contract.

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	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.	
GC-10 The project proponent shall advertise least two local newspapers or circulated in the region around the property one of which shall be in the vern language of the locality concerned seven days from the date of this cleater, informing that the project has accorded environmental clearance copies of clearance letter are available the State Pollution Committee and may also be so Website of the Ministry of Environments at http://envfor.nic.in.		Complied.
GC-11	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zila Parisad/ Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	All three Units in operation. NPGCL Nabinagar is now merged with NTPC Ltd. named as Nabinagar Super Thermal Power Station (NSTPS). Data uploading on NTPC website has been done.
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.	Complied.
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,	Complied.

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	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.		
GC-14	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	MOEF&CC and BSPCB on dated 22.09.2023.	
GC-15	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	regularly.  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.	





		नवानगर / Nabinagar	
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 proponent 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.		Environmental Impact Assessment Report has already been submitted to Regional office & Environment Management Plan / Environment Statement has been submitted to MoEF&CC from time to time.  Display Board has been installed at the main Gat of the Power Plant. Real Time Environment Monitoring data is being displayed.	
implementation of environmental protection measures along with item-wise break-up. This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.  earmarked in the Feasibility Report STPP towards environmental measures of the (102.9 cr), Chimney (95.45 cr), (164.32), Ash Handling and Distribution of the Feasibility Report STPP towards environmental measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.		Extraction and Suppression System (2.66 cr), Fire Fighting and Safety, Green Belt and Afforestation etc. (6.0 cr), DM Plant and treatment (1.5 cr), Env. Lab equipment (1.0 cr) Various system are under	
GC-18	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Investment approval for the project was accorded by Board of NTPC Limited on 21.01.2013. The first, second and third Unit has been commissioned and commercial operation has been started from 6 <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.	y / required. stry l be	

नबीनगर सुपर धर्मल पायर स्टेघन, प्रोस्ट–अदिति नगर, जिलाः औरंगाबाद (बिहार), पिन कोड : 824304 Nabinagar Super Thermal Power Station, Post-Aditi Nagar, Distt.: Aurangabad (Bihar) Pin Code: 824304 पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लैक्स,7 इंस्टीट्यूशनल एरिया, लोधी रोड़, नई दिल्ली–110003

Registered Office : NTPC Bhawan, SCOPE Complex, 7 Institutional Area, Lodhi Road, New Delhi-110 003 कॉरपोरेट आइडेंटिफिकेषन नम्बर/Corporate Identification Number : L40101DL1975G01007966 वेबसाइट/website: www.ntpc.co.in



		नवानगर / Nabinagar	
	ADDITIONAL CONDITIONS	(J-13012/127/2007-1A.II(T)	
		Details regarding adoption of FGD submitted with previous compliance report dt 31.03.2020.	
AC-2	In case SCR/SCNR is not adopted, an alternate technology analysis and justification of technology selection for NOx reduction is to be submitted.	For NO <sub>X</sub> reduction system: 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.	
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.	Annexure-F.	
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.  FGD erection work is under progress.	
AC-5	Water requirement for FGD to be installed in the existing units has to be provided. Therefore, water balance to be modified based on the water requirement for whole units including a plan on ZLD.	Water balance diagram has been submitted along with previous compliance report of 31st Mar-2020.	
AC-6	The stack emissions (min, max, average and 98 percentile) shall be submitted for the period of six months in the compliance report. Further daily water withdrawal, consumption, power generation and average PLF shall be submitted. The specific water consumption per MWhr shall be calculated based on water consumption shall be submitted in the compliance report.		

नबीनगर सुपर थर्मल पावर स्टेषन, पोस्ट—अदिति नगर, जिलाः औरंगाबाद (बिहार), पिन कोड : 824304

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

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लैक्स, र इंस्टीट्यूशनल एरिया, लोधी रोड़, नई दिल्ली—110003



AC-7 The plant shall operate only after meeting

the new emission norms as notified by ministry. Else, extension of timelines from CPCB for implementing pollution control measures for meeting new norms shall be obtained and copy of the same shall be submitted to Ministry.

SPM is within emission norm.

SO<sub>X</sub> emission shall be within stipulated norms after FGD installation and commissioning.

LK.D. Pandey) B. Agnacoal

DGM (EMG) AGM (TSAEMG)

Head of Station Nabinagar Super Thermal Power Station, Nabinagar

resonento.

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





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

### **Test Report**

Sample Number:

VEL/ASH/01

Name & Address of

M/s Nabinagar Super Thermal Power Station,

the Party:

P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

Sample Description:

Fly Ash

Sample Collected by:

Vardan EnviroLab Representative As per Work Order

Parameter Required: Sampling Quantity:

250 gm.

Report No.:

VEL/C/2306220001

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

03/07/2023

Period of Analysis:

22/06/2023 to 03/07/2023

Receipt Date:

22/06/2023

Sampling Date:

17/06/2023

#### TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	1.26	μg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	4.64	μg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gn
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B:2012	5.20	μg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gn
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gn
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	5.06	μg/gn
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	4.60	μg/gn
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	210.22	μg/gn
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	6.50	μg/gn
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	36,50	μg/gn
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	3.92	μg/gr

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





Page 1 of 1

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

### **Test Report**

Sample Number:

VEL/ASH/02

Name & Address of

M/s Nabinagar Super Thermal Power Station,

the Party:

P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

Sample Description:

Bottom Ash (Unit -1)

Sample Collected by: Parameter Required: Vardan EnviroLab Representative As per Work Order

Sampling Quantity:

250 gm.

Report No .:

VEL/C/2306220002

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

03/07/2023

Period of Analysis: Receipt Date:

22/06/2023 to 03/07/2023

22/06/2023

Sampling Date:

17/06/2023

#### TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.5)	μg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.5)	μg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.5)	μg/gn
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B:2012	7.76	μg/gn
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.5)	μg/gn
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.5)	μg/gn
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B:2012	0.98	μg/gn
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B:2012	3.42	μg/gn
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	310.65	μg/gn
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B:2012	5.42	μg/gn
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B:2012	13.54	μg/gn
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B:2012	6,22	μg/gr

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





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Page 1 of 1





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

### **Test Report**

Sample Number:

VEL/ASH/03

Name & Address of

M/s Nabinagar Super Thermal Power Station,

the Party:

P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

Sample Description:

Bottom Ash (Unit -II)

Sample Collected by:

Vardan EnviroLab Representative As per Work Order

Parameter Required: Sampling Quantity:

250 gm.

Report No.:

VEL/C/2306220003

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

03/07/2023

Period of Analysis:

22/06/2023 to 03/07/2023

Receipt Date:

22/06/2023

Sampling Date:

17/06/2023

#### TEST RESULTS

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

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



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Page 1 of 1





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

### **Test Report**

Sample Number:

VEL/ASH/04

Name & Address of

M/s Nabinagar Super Thermal Power Station, P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

the Party:

Sample Description: Sample Collected by:

Vardan EnviroLab Representative

Parameter Required: Sampling Quantity:

250 gm.

Bottom Ash (Unit -III)

As per Work Order

Report No.:

VEL/C/2306220004

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

03/07/2023

Period of Analysis:

22/06/2023 to 03/07/2023

Receipt Date:

22/06/2023

Sampling Date:

17/06/2023

#### TEST RESULTS

	Dton	Test-Method	Results	Unit
S. No.	Parameter	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gm
1.	Arsenic (as As)		0.17	μg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B:2012		
		ICP-MS Method, APHA 3114 B:2012	0.08	μg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	4.26	μg/gn
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gn
5.	Cadmium (as Cd)	Charles and the second of the	*BLQ(**LOQ 0.5)	μg/gn
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012		
2002		ICP-MS Method, APHA 3114 B:2012	0.67	μg/gn
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	4.60	μg/gr
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	245.92	μg/gr
9.	Iron (as Fe)	and the second s	4.46	μg/gr
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	100000	
00000		ICP-MS Method, APHA 3114 B :2012	42.40	μg/gr
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	3.96	μg/gr
12.	Manganese (as Mn)	1 CD ***		

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





Page 1 of 1

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

### **Test Report**

Sample Number:

VEL/C/01

Name & Address of

M/s Nabinagar Super Thermal Power Station,

the Party:

P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

Sample Description:

Coal Sample

Sample Location:

**CHP** Area

Sample Collected by: Parameter Required:

Sampling Quantity:

250 gm.

Vardan EnviroLab Representative As per Work Order

Report No.:

VEL/C/2306220001

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

03/07/2023

Period of Analysis:

22/06/2023 to 03/07/2023

Receipt Date:

22/06/2023

Sampling Date:

17/06/2023

#### TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	0.35	μg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B :2012	2.76	μg/gn
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.1)	μg/gn
4,	Nickel (as Ni)	ICP-MS Method, APHA 3114 B:2012	10.42	μg/gn
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B:2012	0.21	μg/gn
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gn
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B :2012	13.74	μg/gn
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B :2012	2.05	μg/gn
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B :2012	485.67	μg/gr
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B:2012	10.34	μg/gr
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	85.06	μg/gr
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	5.15	μg/gr
13.	Total Sulphur	IS:1350 (Part-III)	0.10 %	%
14.	Ash	IS:1350 (P-I), 1984	31.0 %	%

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





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Page 1 of 1



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



### **Test Report**

Sample Number:

VEL/ASH/02

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 -1)

Sample Collected by:

Vardan EnviroLab Representative

Parameter Required:

Sampling Quantity:

As per Work Order

250 gm.

Report No.:

VEL/C/2309300002

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

05/10/2023

Period of Analysis:

30/09/2023 to 05/10/2023

Receipt Date:

30/09/2023

Sampling Date:

27/09/2023

#### TEST RESULTS

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

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





Page 1 of 1

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



## **Test Report**

Sample Number:

VEL/ASH/03

Name & Address of

M/s Nabinagar Super Thermal Power Station (NSTPS) Shivanpur, P.O.-Ankhora Railway Station, Bihar

the Party:

Sample Description:

Bottom Ash (Unit -II)

Sample Collected by:

Parameter Required:

Sampling Quantity:

Aurangabad, Bihar-824303, India

Vardan EnviroLab Representative

As per Work Order

250 gm.

Report No.:

VEL/C/2309300003

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

05/10/2023

Period of Analysis:

30/09/2023 to 05/10/2023

Receipt Date:

30/09/2023

### Sampling Date:

27/09/2023

#### TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B:2012	0.34	μg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B:2012	0.18	μg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.5)	μg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	2.45	μg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gn
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.5)	μg/gm
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B:2012	0.42	μg/gn
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B:2012	4.87	μg/gn
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B:2012	283.62	μg/gn
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	6.14	μg/gn
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B:2012	8,45	μg/gn
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B :2012	6.78	μg/gn

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Page 1 of 1

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



## **Test Report**

Sample Number:

the Party:

VEL/ASH/04

Name & Address of

M/s Nabinagar Super Thermal Power Station (NSTPS) Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Sample Description:

Bottom Ash (Unit -III)

Sample Collected by: Parameter Required: Vardan EnviroLab Representative

Sampling Quantity:

As per Work Order

250 gm.

Report No.:

VEL/C/2309300004

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

05/10/2023

Period of Analysis:

30/09/2023 to 05/10/2023

Receipt Date:

30/09/2023

Sampling Date:

27/09/2023

#### TEST RESULTS

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

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





Page 1 of 1

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



### **Test Report**

Sample Number:

the Party:

VEL/ASH/01

Name & Address of

M/s Nabinagar Super Thermal Power Station (NSTPS) Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Sample Description:

Fly Ash

Sample Collected by:

Vardan EnviroLab Representative

Parameter Required: Sampling Quantity:

As per Work Order

250 gm.

Report No.:

VEL/C/2309300001

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

05/10/2023

Period of Analysis: Receipt Date:

30/09/2023 to 05/10/2023 30/09/2023

Sampling Date:

27/09/2023

#### TEST RESULTS

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

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





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### **Test Report**

Sample Number:

VEL/C/01

Name & Address of the Party:

M/s Nabinagar Super Thermal Power Station (NSTPS) Shiyanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Sample Description:

Coal Sample

Sample Location:

**CHP** Area

Sample Collected by:

Vardan EnviroLab Representative As per Work Order

Parameter Required: Sampling Quantity:

250 gm.

Report No .:

VEL/C/2309300001

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated

No.:

14.06.2022

Reporting Date:

05/10/2023

Period of Analysis:

30/09/2023 to 05/10/2023

Receipt Date: Sampling Date: 30/09/2023

27/09/2023

#### TEST RESULTS

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	ICP-MS Method, APHA 3114 B :2012	0.41	μg/gm
2.	Lead (as Pb)	ICP-MS Method, APHA 3114 B:2012	3.41	μg/gm
3.	Mercury (as Hg)	ICP-MS Method, APHA 3114 B :2012	*BLQ(**LOQ 0.1)	μg/gm
4.	Nickel (as Ni)	ICP-MS Method, APHA 3114 B :2012	12.78	μg/gm
5.	Cadmium (as Cd)	ICP-MS Method, APHA 3114 B:2012	0.26	μg/gn
6.	Selenium (as Se)	ICP-MS Method, APHA 3114 B:2012	*BLQ(**LOQ 0.5)	μg/gn
7.	Vanadium (as V)	ICP-MS Method, APHA 3114 B:2012	14.12	μg/gn
8.	Chromium (as Cr)	ICP-MS Method, APHA 3114 B:2012	2.14	μg/gn
9.	Iron (as Fe)	ICP-MS Method, APHA 3114 B:2012	471.84	μg/gn
10.	Copper (as Cu)	ICP-MS Method, APHA 3114 B :2012	12.96	μg/gn
11.	Zinc (as Zn)	ICP-MS Method, APHA 3114 B :2012	80.16	μg/gn
12.	Manganese (as Mn)	ICP-MS Method, APHA 3114 B:2012	6.28	μg/gr
13.	Total Sulphur	1S:1350 (Part-III)	0.12 %	%
14.	Ash	IS:1350 (P-I), 1984	30.0 %	%

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	NSTPS R&R-Community Development Activ	vities			Ann	exure – CSR (SC	-21)
	Education (Sath Padhe Sath Badhe) (5.0 crs.)						
Sl. No	Activities completed	LOA Date/ Year	Aarded/A mount in CR	Expenditure i ncurred in cr.	Under Tendering	Remarks	Activity planned 2024-25
1	Distribution of 6500 School Bags in 24 PAVs Govt. School students.	25.10.2016	0.15	0.45		Completed	
2	Distribution Stationary items in in 24 PAVs Govt. School students.	9.11.2016	0.09	0.09		Completed	
3	Distribution of 6500 Sweaters in 24 PAVs Govt. School students.	28.12.2016	0.19	0.19		Completed	
4	Quiz & Painting Competition for PAVs Govt. Schools Student.	2017	0.0057	0.0057		Completed	
5	Distributation of Computers to Kasturba Gandhi Girls school, Nabinagar.	2017	0.033	0.033		Completed	
6	Skill Development Training Programme for PAPs 29th Students in CEPE T, Hajipur.	15.02.2018	0.20	0.20		Completed	
7	Meritorious Award to all PAVs School's for 8th, 10th and 12th passed Students.	2012-2021	0.0894	0.0894		Completed	
8	Distribution of School Furnitures in 24 Govt. schools in affected villages.	4.07.2018	1.10	1.10		Completed	
9	Reimbursement of Scholorship of 115 PAP ITI students. (under process)	2019-20	0.36	0.36		Completed	
10	Procurement of Play equipement for PAVs Govt. schools	3.10.2018	0.16	0.16		Completed	
11	Play Equipment for village schools	27.06.2018	0.14			Completed	
12	Internal Electrification o (HSS SHIVANPUR) under CD activities of NPGC.	16.03.2020	0.062	0.062		completed	_ <del>_</del>
13	Tailoring/Sewing Training Programme for PAVs women/girls	10.01.2020	0.042	0.035		completed	
14	Conductioning Sports Compitition for PAVs Govt. School's Student.	2020	0.04	0.04		Completed	
15	Boundary wall in Middle school Salaiya	28.01.2021	0.39	0.2983		completed	
16	School Bags to students	2021-2022	0.006	0.006		Completed	
17	Solar lantern to sewing trainees	2021-22	0.007	0.007		Completed	
18	Sewing machines to 50 trainees	2021-22	0.025	0.025	4.00	Completed	-
19 20	Constn. of class rooms in Govt. high schoool Salaiya Solar LED lantern to Meritorious students	2021-22 2022-23	0.008	0.008	1.92	under tendering Completed	0
20	Total Rs. in Crore (A)	2022-23	3.10	3.16	1.92	Completed	0.00
	Health (Sankalp Aarogayam)(6.7 crs.)						
1	Mobile Van Health Service through Indian Red Cross Society, Aurangaba d for 22 PAVs .	2016-17	0.0264			Completed	
2	Mobile Van Health Service through Indian Red Cross Society, Aurangaba d for 22 PAVs .	2017-18	0.1			Completed	
3	Mobile Van Health Service through Indian Red Cross Society, Aurangabad for 22 PAVs .	2018-19	0.11			Completed	
4	Mobile Van Health Service through Indian Red Cross Society, Aurangaba d for 22 PAVs .	28.04.2020	0.67	0.90		Completed	
5	Mobile Van Health Service through Indian Red Cross Society, Aurangaba d for 22 PAVs . (new contract)	29.11.2021	0.35	0.30		Completed	0.00
6	03 General Health Camp for PAPs also organized .	2016	0.07	0.07		Completed	0.05
7	Tri- Cycle Distribution to PAPs .	2018	0.032	0.032		Completed	0.04
8	Addl. PHC Construction at Meh. (Meh completed and PHC running)	17.04.2015	0.66	0.66		Completed	
9	Addl. PHC Construction at Ankorha.	11.06.2015		0	0.59	under tendering (in finance)	
10	Internal Electrification of PHCs under CD activity.	2.02.2019	0.57	0.57		Completed	
11	Tri-cycle Distribution to PAPs Phase-II	2020	0.023	0.023		Completed	0.1
12	Mega health check up in villages	2021-23				Completed	0.3
		2021	]	0.40		Completed	0.5
		2021	-			Completed	
		2021	1			Completed	
	Francisco and medical control of APVICES 2.2.2.2.2.	2021 2021	1			Completed Completed	
13	Furniture and medical equipments to 02 APHC Meh & Ankorha.  (completed for APHC Meh)	2021	0.35			Completed	
	(piccourter in the fileth)	2022	†			Completed	
		2022	†			Completed	
		2022	1			Completed	
		2022	1			Completed	
14	TWO Abulance vans for PHC in Barun and Nabinagar	2023			0.52	proposal initiated	
Total Rs.			2.96	2.96	1.11		0.99
in Crore				2.70			J.,,

Sl. No	Activities completed  Drinking Water (Jal Dhara) (1.5 crs.)	LOA Date/Year	Aarded/A mount in CR	Expenditure i ncurred in cr.	Under Tendering	Remarks	Activity planned 2024-25
Sl. No	Activities completed			Expenditure ( Cr)			Activity planned 2022-23
1	Installation of 10 nos. Hand Pump for Saduri Resstallment Colony.	27.06.2017	0.03	0.025		Completed	
2	Installation of 110 hand pumps in the 22 villages. (on deposit work basis)	2020-21	0.6	0.6		Completed	
3	8 nos. Installtion of hand pump	2023-24	0.05	0		locations to be	0
4	Installation of 102 hand pumps in the 22 villages. (on deposit work basis)						0.55
	Total Rs. in Crore (C)		0.68	0.63	0		0.55
	Sanitation (Nirmal) and other activities (0.35+.30 crs.)						
Sl. No	Activities completed			Expenditure ( Cr.)			Activity planned 2022-23
1	Distribution of Dustbin, Broom, Duster Cloth, Hand Wash Soap at 05 nos. Govt. Schools at PAVs.	2018	0.02	0.02		Completed	
2	Community toilets in Govt. schools						0.23
3	swachhata abhiyan		0.1	0.1		Completed	
	Total Rs. in Crore (D)		0.02	0.12			0.23
	Welfare & Cultural Activities (1.30 crs.)						
1	Assistance of PAPs Girl Marriage	2016	0.001	0.001		Completed	
2	Distribution of Tripal for Baghi HSOs Resettled at Saduri RC.	2016	0.0043	0.0043		Completed	
3	Providing 20 nos. Wheel chair to Railway Division, Mughalsarai.	2016	0.0138	0.0138		Completed	
4	Distribution of 100 Blankets and Cloth, Balti, Tarpoline on request of Indian Cross Society, Aurangabad.	2017	0.0322	0.0322		Completed	
5	Sponsoring and Supporting Sports event and other activities.	2017	0.0155	0.0155		Completed	
6	Vermicompost Training for PAPs by TM Bhagalpur University on 23- 24th March 2018 at NPGC Campus.	2018	0.0041	0.0041		Completed	
7	Distribution of blanket among helpless and poor people of PAPs of NPGCL project	2019-21	0.075	0.075		Completed	
8	Contribution of Yagya, Rahra Village	2020	0.004	0.004		Completed	
9	Jal Jivan Hariyali, 2020 Organizing cricket/ahteletic games tournament for the villagers of the	2020	0.027	0.027		Completed Completed	0.06
11	PAVs COVID-19 welfare activies like Food distribution to villagers, Face mask	2020-22	0.03	0.03		Completed	0.00
12	distribution, Sanitaztion activities  Skill upgradation training (Agro based training) Vermi Composting and Bee keeping.	2022-23	0.05	0.05		Completed	0.050
13	Skill development awareness camp	2023-24	0.078	0.078		Completed	
14	Blankets distribution to Poor villagers	2022-24	0.10	0.10		Completed	0.10
	0		<u> </u>			<del>-</del>	0.10
15	Azadi Ka Amrit Mahotsav	2022-23	0.028	0.028		Completed	
16	100 nos. fire victim kits through Red Cross Society, Aurangabd	2021-22	0.035	0.035		Completed	
17	Food kits distribution to poorers in nearby villages during Covid	2020-21	0.187	0.187		Completed	
18	Meritorious Award to all PAVs School's for 8th, 10th and 12th passed Students on the eve of 25th august	2023-2024	0.002	0.002		Completed	
19	Contribution to Football Goldcup Tournamment 2023	2023-2025	0.005	0.005		Completed	
20	UTKARSH scholarship to meritorious students	2023-2024	0.025	0.025		under process	
	Total Rs. in Crore (E)		1.02	0.99			0.21

Sl. No	Activities completed	LOA Date/Year	Aarded/A mount in CR	Expenditure i ncurred in cr.	Under Tendering	Remarks	Activity planned 2024-25
Commu	unity Development Programme at Aurangabad District (10.40 crs.)						
1	Furnishing of public meeting hall in District office, Aurangabad.	08.06.2020	0.066	0.066		Completed	
2	Construction of Football Stadium at Nabinagar	17.08.2017	0.805	0.41		Completed	
3	Development work at Nabinagar Stadium	2023-24	0.37	0		work yet to start	
4	Uplifment of Ramesh Chowk in Aurangabad.	2017	0.44	0.44		Completed	
5	Development of Cultural heritage at Deo Block.	2017-18	2.6	2.35		Completed	
	Construction of Control room and Entrance gate at Deo through Deposit work, under CD activity of NPGC	05.02.2018	0.48			Completed	
	Shifting of High Mast light from Ramesh Cowk, Aurangabad	11.03.2019	0.05			Completed	
6	Development of Gandhi Maidan, Aurangabad.	17.08.2017	0.72	0.54		completed	
7	Support during Chhath puja, Bihar Diwas, Sena Diwas, Surya Mahtosav, Goldcup and others Misc. works.		0.43	0.43		Completed.	
8	Construction of Ground for Flag hosting at Gandhi Maidan Aurangabad		0.07	0.07		Completed.	
9	Construction of Vehicle Shed and Aluminium Frame Work at DLAO, Aura ngabad	13.01.2020	0.118	0.118		completed	
10	Installation of Inter- Telecome at Collectorate office, Aurangabad As per request of DM, Auran gabad	2019	0.04	0.04		completed	
11	Instllation of Wrestling Mat at Aurangabad	15.01.2020	0.04	0.04		Completed	
12	Installation of A.C. at Collectorate office, Aurangabad As per request of D	2020	0.035	0.035		Completed	
14	M, Aurangabad	2020	0.035	0.055		Completed	
13	Boundarywall, Gate and other misc. works at Gandhi Maidan aurangabad	26.03.2020	0.78	0.62		completed	
14	Godrej furniture at District Collectorate		0.08	0.08		Completed	
15	200 KV DG Set for Aurangabad hospital.		0.24	0.24		Completed	
16	Wooden Badminton court	21.09.2021	0.118	0.118		completed	
17 18	Tentt and light during ChaitiChath 2022 Tentt and light during Kartik Chath 2022	2022	0.0242	0.0242		completed	
19	Sports- footbal gold cup 2022	2022	0.023 0.005	0.023 0.005		completed completed	
20	Ek Sam Sahido Ke NAM	2022-23	0.005	0.005		completed	
21	Misc. arrangement at Aurangabad community hall	2021-22	0.0147	0.0147		completed	
22	Manav Srinkhla at Aurangabad for Social awareness program	2020-21	0.022	0.022		completed	
23	Construction of toilet complex for public uses at DIstrict Civil	2023-24	0	0	0.15	work yet to start	
	Court, Aurangabad .	2020 21				work yet to start	_
	Total Rs. in Crore (F)		7.5789	5.69	0.15		0
	INFRASTRUCTURE (Buniyadi Sanrachna) (34.98 Crs.)						
1							
-	Construction of Road near by village & Repair Ankorha-Majhiwan Road	25.01.2014	0.93	0.60		Completed	
2	Construction of PCC Road at Kundwa to Indrapura	12.04.2015	0.66	0.48		Completed	
2	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa	12.04.2015 27.08.2016	0.66	0.48 0.37		Completed Completed	
2	Construction of PCC Road at Kundwa to Indrapura	12.04.2015	0.66	0.48		Completed	
2	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa	12.04.2015 27.08.2016	0.66	0.48 0.37		Completed Completed	
2 3 4	Construction of PCC Road at Kundwa to Indrapura Construction of PCC Road to village Parsa Construction of PCC Road to village Ankhora	12.04.2015 27.08.2016 02.11.2016	0.66 0.39 0.44	0.48 0.37 0.405		Completed Completed Completed	
2 3 4 5	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh	12.04.2015 27.08.2016 02.11.2016 22.09.2017	0.66 0.39 0.44 0.18	0.48 0.37 0.405 0.095		Completed Completed Completed Completed	
2 3 4 5 6	Construction of PCC Road at Kundwa to Indrapura Construction of PCC Road to village Parsa Construction of PCC Road to village Ankhora Construction of PCC Road to village Meh Madhe Community Ghat	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017	0.66 0.39 0.44 0.18 0.167	0.48 0.37 0.405 0.095 0.167		Completed Completed Completed Completed Completed	
2 3 4 5 6 7	Construction of PCC Road at Kundwa to Indrapura Construction of PCC Road to village Parsa Construction of PCC Road to village Ankhora Construction of PCC Road to village Meh Madhe Community Ghat Narari Khurd Community Ghat	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017	0.66 0.39 0.44 0.18 0.167	0.48 0.37 0.405 0.095 0.167 0.2		Completed Completed Completed Completed Completed Completed	
2 3 4 5 6 7 8 9	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017	0.66 0.39 0.44 0.18 0.167 0.20 0.27	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15		Completed Completed Completed Completed Completed Completed Completed Completed Completed	
2 3 4 5 6 7 8 9	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 06.09.2017	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21		Completed	
2 3 4 5 6 7 8 9 10	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 06.09.2017 23.08.2017	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19		Completed	
2 3 4 5 6 7 8 9 10 11	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 06.09.2017 23.08.2017 02.12.2016	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069		Completed	
2 3 4 5 6 7 8 9 10 11 12 13	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 06.09.2017 23.08.2017 02.12.2016 2.11.2016	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04		Completed	
2 3 4 5 6 7 8 9 10 11 12 13	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 06.09.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road to village Benibigha	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.08.2017 06.09.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road to village Benibigha  Construction of Road at Belauti Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.08.2017 06.09.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road to village Benibigha  Construction of Road at Belauti Village  Construction of Road at Pathra Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road at Belauti Village  Construction of Road at Belauti Village  Construction of Road at Pathra Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 08.05.2018	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road at Belauti Village  Construction of Road at Belauti Village  Construction of Road at Pathra Village  Construction of Road at Rampur Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 04.08.2018 23.07.2018	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road at Belauti Village  Construction of Road at Belauti Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Saduri R C	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 04.08.2018 23.07.2018 16.08.2018	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36 0.22	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30 0.15		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road at Belauti Village  Construction of Road at Belauti Village  Construction of Road at Pathra Village  Construction of Road at Rampur Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 04.08.2018 23.07.2018	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road and drain to village Nararikhurd  Construction of Road at Belauti Village  Construction of Road at Pathra Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Saduri R C  Construction of PCC Road at Simra Dusad Village  Construction of POC Road at Simra Dusad Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 04.08.2018 23.07.2018 16.08.2018	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36 0.22	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30 0.15		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road at Village Benibigha  Construction of Road at Belauti Village  Construction of Road at Pathra Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Saduri R C  Construction of PCC Road at Simra Dusad Village	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 08.05.2018 04.08.2018 23.07.2018 16.08.2019	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36 0.22 0.49	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30 0.15 0.266		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road to village Benibigha  Construction of Road at Belauti Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Saduri R C  Construction of PCC Road at Simra Dusad Village  Construction of POC Road at Simra Dusad Village  Supply Installation of 100 Nos. Solar Street Light System for Project	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 04.08.2018 23.07.2018 16.08.2018 17.09.2019 2016-19	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36 0.22 0.49 5.66	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30 0.15 0.266 5.65		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road to village Benibigha  Construction of Road at Belauti Village  Construction of Road at Pathra Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Saduri R C  Construction of PCC Road at Simra Dusad Village  Construction of POC Road at Simra Dusad Village  Supply Installation of 100 Nos. Solar Street Light System for Project Affected Villages of NPGC	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 06.09.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 08.05.2018 04.08.2018 23.07.2018 16.08.2019 2016-19 19.07.2016	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36 0.22 0.49 5.66 0.265	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30 0.15 0.266 5.65		Completed	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Construction of PCC Road at Kundwa to Indrapura  Construction of PCC Road to village Parsa  Construction of PCC Road to village Ankhora  Construction of PCC Road to village Meh  Madhe Community Ghat  Narari Khurd Community Ghat  Construction of PCC Road to village Madhe-Sivanpur  Construction of PCC Road to village Sasna  Construction of PCC Road to village Nararikala Village  Construction of PCC Road to village Prembigha Village  Construction of PCC Road to village Prembigha Village  Construction of temporary drain/culvert at Marar Sargara Vilage  Strengthining of Ankohra village apporoch Road  Construction of PCC Ground at community centre Shivanpur  Construction of PCC Road and drain to village Nararikhurd  Construction of PCC Road to village Benibigha  Construction of Road at Belauti Village  Construction of Road at Pathra Village  Construction of Road & Drain at Raghunathpur Village  Construction of Road & Drain at Saduri R C  Construction of PCC Road at Simra Dusad Village  Construction of PCC Road at Simra Dusad Village  Construction of PCC Road at Simra Dusad Village  Supply Installation of 100 Nos. Solar Street Light System for Project Affected Villages of NPGC  Madhe Road Repairs	12.04.2015 27.08.2016 02.11.2016 22.09.2017 07.01.2017 06.04.2017 09.10.2017 09.08.2017 23.08.2017 02.12.2016 2.11.2016 15.12.2017 09.10.2017 10.08.2017 08.05.2018 04.08.2018 23.07.2018 16.08.2018 17.09.2019 2016-19 19.07.2016 2014	0.66 0.39 0.44 0.18 0.167 0.20 0.27 0.19 0.23 0.19 0.09 0.045 0.032 0.34 0.22 0.13 0.254 0.60 0.36 0.22 0.49 5.66 0.265	0.48 0.37 0.405 0.095 0.167 0.2 0.27 0.15 0.21 0.19 0.069 0.04 0.032 0.20 0.067 0.08 0.17 0.30 0.30 0.15 0.266 5.65 0.265		Completed	

Sl. No	Activities completed	LOA Date/ Year	Aarded/A mount in CR	Expenditure i ncurred in cr.	Under Tendering	Remarks	Activity planned 2024-25
29	Construction of internal road & Drain at Saduri Village under CD Activities	24.07.2020	0.233	0.22		completed	
30	Construction of PCC Roads and drainage system PAVs ,under CD activities (Kurwa village-Ash dyke area)	13.08.2020	0.34	0.34		completed	
31	Construction of Road at Khaira under CD activities of NPGC	23.07.2020	0.534	0.382		completed	
32	Construction of internal road at Meh under CD activities of NPGC	08.08.2020	0.48	0.48		completed	
33	Strengthening of Meh-Indrapuri Barrage road	24.08.2020	1.48	1.05		completed	
34	Construction of road at Rahara under CD activities of NPGC	30.09.2020	1.035	0.60		completed	
35	Construction of road at Kurwa under CD activities of NPGC	01.10.2020	1.19	1.01		completed	
36	Construction and development work of Ghat at village-Salaiya under CD activities for NPGC	29.09.2020	0.24	0.22		completed	
37	Construction of road & drains at Ankorha under CD activities of NPGC	28.12.2020	1.78	1.14		work under	
38	Construction of road on both side of boundary wall along approach road leading to plant under CD works	21.10.2020	0.785	0.74		Completed	
39	Construction of road at Majhiwan under CD activities of NPGC	02.01.2021	0.69	0.0698		Completed	
40	Construction of Roads at village-Sasna under CD activities for NPGC	01.07.2021	0.68	0.68		Completed	
41	Construction of road at Madhe under CD activities of NPGC	13.01.2021	2.28	2.28		Completed	
42	Construction of road at Shivanpur under CD activities of NPGC	31.05.2022	0.91	0.785		work under progress 95 % completed	
43	Construction of Dariyabad Internal Road	23.02.2021	0.215	0.215		completed & closed	
44	Construction of PCC Road and drainage system PAVs under CD activities (Khaira-Dariyabad)	06.01.2021	0.36	0.35		completed	
45	Construction of Road at Amba under CD activities of NPGC	23.02.2021	0.165	0.165		Completed.	
46	Construction of Kurhwa link road connecting labour colony road(along north main plant boundary wall ) and Kurhwa-Ankorha road) under CD works of NPGC	24.03.2021	0.37	0.30		Completed	
47	Construction of PCC road at Village -Indrapura under CD Activities for NPGC	16.03.2021	0.10	0.10		Completed	
48	Construction of Belauti-salaiya Cement concrete road	22.02.2021	0.69	0.407		Completed	
49	Contruction of road in village Benibigha	10.02.2023	0		0.37	under vetting	0.38
50	construction of ghat in kudwan	2023-24			0.7	under vetting	
51	Balance road in kudwan	2023-24			0.30	Under finalization	0.5
52	Balance road in Marar	04.02.2023			0.25	Under finalization	0.37
53	Balance road in shivanpur	2023-24			1.41	Under finalization	1.42
54	Construction (Relocation) of Temple on Govt land in Saduri rehabilitation colony.	19.09.2020	0.1	0.1		completed	
55	Constn. of community hall at Badem	07.01.2022	0.24	0.12		completed	
56	Construction of PCC Road & Drain at Ankorha Village under CD activities of NPGC	14.10.2017	0.39			Completed	
	Total Amount (G)		28.72	23.26	3.03		2.67
	Total Amount in Cr. (A+B+C+D+E+F+G)		44.07	36.80	6.21		4.65







### **Test Report**

Sample Number:

Sample Description:

Sample Location:

VEL/GW/01

Name & Address of the Project:

M/s Nabinagar Super Thermal Power Station, P.O.-Aditi Nagar, Aurangabad, Bihar-82430,

India

Report No .:

VEL/GW/2306210001

21/06/2023 to 03/07/2023

Format No.:

7.8 F-03

Party Reference No.:

4000280838-057-2035 Dated

14.06.2022

Reporting Date:

Period of Analysis:

03/07/2023

Receipt Date:

21/06/2023

Sampling Date:

18/06/2023

Sampling Quantity:

2.0 Ltr.

Sampling Type:

Grab

Parameter Required:

As per work order

Sample Collected by: Preservation:

Refrigerated

Ground Water

Near Auxiliary Boiler

Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Vardan EnviroLab Representative

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

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Page 1 of 2







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

Tact Danart

		Test Report					
Samp	ole Number: VEL/GW/01		Report No.: VEL/GW/230621000				
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS  Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source	
20.	Chloride as Cl	IS: 3025 (P-32)	67.86	mg/L	250	1000	
21.	Reactive Silica	IS: 3025 (P-35)	15.40	mg/L	See	(mm)	
22.	Colloidal Silica	IS: 3025 (P-35)	1.16	mg/L	122		
23.	Total Organic Carbon	IS 3025 (P-69)	0.25	mg/L		##C	
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4	
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation	
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5	
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	0.34	mg/L	5	15	
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3	
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation	
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation	
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	2527	144	
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation	
33.	Chromium as Cr <sup>3+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L		784	
34.	Chromium as Cr <sup>6+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	**	(AT	
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation	
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation	
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation	
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation	
39.	Total coliform	IS 1622	8	MPN/100ml	177		
40.	E. coli	IS 15185:2016	Absent	Per 100ml	1000	detectable in any al sample	

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

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







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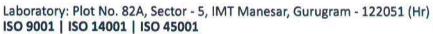
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## **Test Report**

Sample Number:

Sample Description:

Sample Collected by:

Sample Location:

Preservation:

VEL/GW/02

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Report No.:

VEL/GW/2306210002

7.8 F-03 Format No.:

4000280838-057-2035 Dated

14.06.2022

Reporting Date:

03/07/2023

Period of Analysis:

Party Reference No.:

21/06/2023 to 03/07/2023

Receipt Date:

21/06/2023

Sampling Date: Sampling Quantity: 18/06/2023 2.0 Ltr.

Sampling Type:

Grab

Refrigerated

**Ground Water** 

Main Bazar Area

Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Vardan EnviroLab Representative

Parameter Required: As per work order

- 1	Parameter	Test-Method	the transfer of the state of the	Unit	Limits of IS:10500 -2012		
S. No.			Result		Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source	
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.20	70.5	6.5 to 8.5	No Relaxation	
2.	Temperature	IS:3025 (P-9)	27.0	°C	int.	570	
3.	Electrical Conductivity	IS: 3025 (P-14)	825	μS/cm	24		
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5	
5.	Total Dissolved Solids	IS: 3025 (P-16)	502.00	mg/L	500	2000	
6.	Total Suspended Solids	IS: 3025 (P-17)	7.00	mg/L	1880	***	
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.6	mg/L	WEEK!		
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	5 <b>+4</b> 5		
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	(22)	22	
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	(**)	-	
11.	M-Alkalinity	IS: 3025 (P-51)	315.55	mg/L		22	
12.	Calcium Hardness	IS: 3025 (P-40)	285.80	mg/L	(144)		
13.	Magnesium Hardness	APHA, 3500 Mg B	80.05	mg/L	1550		
14.	Total Hardness	IS: 3025 (P-21)	365.85	mg/L	200	600	
15.	Sodium	IS: 3025 (P-45)	14.2	mg/L	. <del></del> .	855	
16.	Potassium	IS: 3025 (P-45)	1.2	mg/L	223	(44	
17.	Sulphate as SO <sub>4</sub>	IS: 3025 (P-24)	62.75	mg/L	200	400	
18.	Nitrate as NO <sub>3</sub>	IS 3025 (Part -34), Chromotropic Method	14.28	mg/L	45	No Relaxation	
19.	Fluoride as F	APHA 4500 F D	0.56	mg/L	1.0	1.5	

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

		Test Report		200	CONTROL AND		
Samı	ple Number: VEL/GW/02		Report No.: VEL/GW/2306				
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source	
20.	Chloride as Cl	IS: 3025 (P-32)	49.35	mg/L	250	1000	
21.	Reactive Silica	IS: 3025 (P-35)	26.45	mg/L	4-	-	
22.	Colloidal Silica	IS: 3025 (P-35)	1.86	mg/L			
23.	Total Organic Carbon	IS 3025 (P-69)	0.20	mg/L			
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4	
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation	
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5	
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15	
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3	
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation	
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation	
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L		( ee	
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation	
33.	Chromium as Cr <sup>3+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L		9220	
34.	Chromium as Cr <sup>6+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L		(+4)	
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation	
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation	
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation	
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation	
39.	Total coliform	IS 1622	12	MPN/100ml			
40.	E. coli	IS 15185:2016	Absent	Per 100ml		detectable in any nl sample	

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

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





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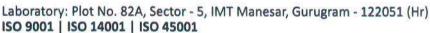
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## **Test Report**

Sample Number:

Sample Description:

Sample Location:

VEL/GW/03

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

**Ground Water** 

Village-Sasana

Shiyanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Report No.:

VEL/GW/2306210003

21/06/2023 to 03/07/2023

Format No.:

7.8 F-03 4000280838-057-2035 Dated

14.06.2022

Reporting Date:

Period of Analysis:

Party Reference No.:

03/07/2023

Receipt Date: Sampling Date: 21/06/2023 18/06/2023

Sampling Quantity:

2.0 Ltr.

Sampling Type:

Grab

Parameter Required:

As per work order

Sample Collected by: Preservation: Sampling and Analysis Protocol:

Refrigerated APHA 23rd Edition 2017 & IS 3025

Vardan EnviroLab Representative

Limits of IS:10500 -2012 Permissible S. limit in the Requirement Unit Result Parameter Test-Method (Acceptable Absence of No. Limit) Alternate Source No Relaxation 7.46 \_\_\_ 6.5 to 8.5 IS: 3025 (P-11) pH (at 25 °C) 1. 25.8 °C IS:3025 (P-9) 2. Temperature --515 uS/cm IS: 3025 (P-14) 3. Electrical Conductivity BLQ(LOQ-1.0) 5 NTU 1 IS: 3025 (P-10) 4. Turbidity 500 2000 315.00 mg/L Total Dissolved Solids IS: 3025 (P-16) 5. 7.00 mg/L IS: 3025 (P-17) 6. Total Suspended Solids 6.8 mg/L IS: 3025 (P-38) 7. Dissolved Oxygen BLQ(LOQ-2.0) mg/L IS 3025 (P-44) BOD (3 Days at 27°C) 8. BLQ(LOQ-4.0) mg/L APHA, 5220 B Open Reflux Method 9. Chemical Oxygen Demand IS: 3025 (P-51) Nil mg/L ------10. P-Alkalinity IS: 3025 (P-51) 225.85 mg/L ---11. M-Alkalinity mg/L --136.35 IS: 3025 (P-40) 12. Calcium Hardness 49.02 mg/L APHA, 3500 Mg B 13. Magnesium Hardness 200 600 185.55 mg/L 14. Total Hardness IS: 3025 (P-21) 46.2 mg/L 1S: 3025 (P-45) Sodium 15. 1.6 mg/L IS: 3025 (P-45) 16. Potassium 400 45.15 mg/L 200 IS: 3025 (P-24) 17. Sulphate as SO<sub>4</sub> 45 No Relaxation 5.75 mg/L IS 3025 (Part -34), Chromotropic Method 18. Nitrate as NO3 0.42 1.5 mg/L APHA 4500 F D 19. Fluoride as FEA

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

		Test Report		Dana	"t No · VEL/C	W/2306210003
Samp	ple Number: VEL/GW/03			Керо		S:10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	35.12	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	22.55	mg/L	20	
22.	Colloidal Silica	IS: 3025 (P-35)	5.20	mg/L		
23.	Total Organic Carbon	1S 3025 (P-69)	0.26	mg/L		
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	:##	(22)
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr <sup>3+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	-	2,000
34.	Chromium as Cr <sup>6+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L		-
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0,05	No Relaxation
39.	Total coliform	IS 1622	11	MPN/100ml	(( <b>44</b> ))	
40.	E. coli	IS 15185;2016	Absent	Per 100ml		detectable in any nl sample

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

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





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

### **Test Report**

Sample Number:

VEL/GW/04

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Report No .: Format No.: VEL/GW/2306210004

7.8 F-03

Party Reference No.:

4000280838-057-2035 Dated

14.06.2022

Reporting Date:

Period of Analysis:

03/07/2023

21/06/2023

21/06/2023 to 03/07/2023

Receipt Date: Sampling Date:

18/06/2023

Sampling Quantity:

2.0 Ltr.

Sampling Type:

76.4

14.82

0.42

Grab

Parameter Required:

As per work order

Sample Collected by: Preservation:

Sample Description:

Sample Location:

Switch Yard Vardan EnviroLab Representative

Ground Water

Refrigerated

Sampling and Analysis Protocol:

APHA 23rd Edition 2017 & IS 3025

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



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The report no. with Suffix A-Amended Report.

Sulphate as SO<sub>4</sub>

Nitrate as NO3

Fluoride as F

17.

18.

19.

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200

45

1.0

mg/L

mg/L

mg/L

400

No Relaxation

1.5



IS: 3025 (P-24)

IS 3025 (Part -34), Chromotropic Method

APHA 4500 F D





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

Come	ole Number: VEL/NPGCS	Test Report		Report No.: VEL/GW/2306210004				
Samp	le Number: VELINI GCS		Constanting of Late	it far one		5:10500 -2012		
S. No.	Parameter		Result	Unit	Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source		
20.	Chloride as Cl	IS: 3025 (P-32)	125.90	mg/L	250	1000		
21.	Reactive Silica	IS: 3025 (P-35)	23.50	mg/L		S##/		
22.	Colloidal Silica	IS: 3025 (P-35)	7.14	mg/L				
23.	Total Organic Carbon	IS 3025 (P-69)	0.24	mg/L		**		
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4		
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation		
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5		
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15		
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3		
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation		
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation		
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	22	ни.		
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation		
33.	Chromium as Cr <sup>3+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	VL27			
34.	Chromium as Cr <sup>6+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L				
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation		
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation		
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation		
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation		
39.	Total coliform	IS 1622	14	MPN/100ml	-	24		
40.	E. coli	IS 15185:2016	Absent	Per 100ml	A STATE OF THE PARTY OF THE PAR	detectable in any nl sample		

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

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

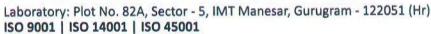




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## **Test Report**

Sample Number:

Sample Description:

Sample Collected by:

Sample Location:

Preservation:

VEL/GW/05

**Ground Water** 

Refrigerated

Village-KHAIRA

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Vardan EnviroLab Representative

Report No.:

VEL/GW/2306210005

Format No.:

7.8 F-03

4000280838-057-2035 Dated Party Reference No.:

14.06.2022

Reporting Date:

Period of Analysis:

03/07/2023

Receipt Date:

21/06/2023 to 03/07/2023 21/06/2023

Sampling Date:

18/06/2023

Sampling Quantity:

2.0 Ltr.

Sampling Type:

Grab

As ner work order

Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025		Parameter Required: As per work order				
	Parameter	Test-Method	AND BURNETS OF THE	Unit	Limits of IS:10500 -2012	
S. No.			Result		Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1,	pH (at 25 °C)	IS: 3025 (P-11)	7.20		6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	27.0	°C		:55
3.	Electrical Conductivity	IS: 3025 (P-14)	425	μS/cm	7228	194
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	315.00	mg/L	500	2000
6.	Total Suspended Solids	IS: 3025 (P-17)	BLQ(LOQ-1.0)	mg/L		
7.	Dissolved Oxygen	IS: 3025 (P-38)	7.2	mg/L		122
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L		( <del>FE</del> )
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L		(220
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L		(44)
11.	M-Alkalinity	IS: 3025 (P-51)	185.15	mg/L		
12.	Calcium Hardness	IS: 3025 (P-40)	136.55	mg/L	22	()
13.	Magnesium Hardness	APHA, 3500 Mg B	52.73	mg/L		20
14.	Total Hardness	IS: 3025 (P-21)	189.28	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	12.2	mg/L	-	75
16.	Potassium	IS: 3025 (P-45)	1.5	mg/L		
17.	Sulphate as SO <sub>4</sub>	IS: 3025 (P-24)	16.6	mg/L	200	400
18.	Nitrate as NO <sub>3</sub>	IS 3025 (Part -34), Chromotropic Method	4.8	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	BLQ(LOQ-0.2)	mg/L	1.0	1.5



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Page 1 of 2



# Vardan EnviroLab



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

		Test Report				
Samp	ple Number: VEL/GW/05			Repo		GW/2306210005
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS  Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	34.40	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	5.15	mg/L	44	
22.	Colloidal Silica	IS: 3025 (P-35)	0.70	mg/L		
23.	Total Organic Carbon	1S 3025 (P-69)	0.22	mg/L	22	×-
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	355	3.70
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr <sup>3+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	155	
34.	Chromium as Cr <sup>6+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L		(m m)
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	<2	MPN/100ml	(44)	**
40.	E. coli	IS 15185:2016	Absent	Per 100ml		detectable in any nl sample

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

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





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# 'ardan EnviroLab





### **Test Report**

Sample Number:

Sample Description:

Sample Collected by:

Sample Location:

Preservation:

VEL/GW/06

**Ground Water** 

Refrigerated

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Village-Shivanpur (Pota Kevin)

Vardan EnviroLab Representative

Report No.:

VEL/GW/2306210006

7.8 F-03k Format No.:

4000280838-057-2035 Dated

14.06.2022

Reporting Date:

Period of Analysis:

03/07/2023

Party Reference No.:

21/06/2023 to 03/07/2023

Receipt Date: Sampling Date: 21/06/2023 18/06/2023

Sampling Quantity:

2.0 Ltr.

Sampling Type:

Grab

		State of the William Country Tourist of the Country	The second second second	J-1 16	Limits of IS	S:10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
ly	pH (at 25 °C)	IS: 3025 (P-11)	7.21	1221	6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	27.6	°C	1255	TO:
3.	Electrical Conductivity	IS: 3025 (P-14)	982	μS/cm	**	12
1.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	625.00	mg/L	500	2000
ó.	Total Suspended Solids	IS: 3025 (P-17)	22.00	mg/L	8,500	2000
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.2	mg/L	V22V	
3.	BOD (3 Days at 27°C)	IS 3025 (P-44)	BLQ(LOQ-2.0)	mg/L	(***)	. <del></del>
).	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L	1921	
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	(HE)	38
11.	M-Alkalinity	IS: 3025 (P-51)	310.69	mg/L		120
12.	Calcium Hardness	IS: 3025 (P-40)	235.16	mg/L	(en	
13.	Magnesium Hardness	APHA, 3500 Mg B	76.24	mg/L		192
14.	Total Hardness	IS: 3025 (P-21)	311.40	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	12.4	mg/L	1.550	
16.	Potassium	IS: 3025 (P-45)	1.0	mg/L	449	
17.	Sulphate as SO <sub>4</sub>	IS: 3025 (P-24)	32.36	mg/L	200	400
18.	Nitrate as NO <sub>3</sub>	IS 3025 (Part -34), Chromotropic Method	7.0	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.62	mg/L	1.0	1.5



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# Vardan EnviroLal



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

		Test Report	<u> </u>		= 100	
Samp	ole Number: VEL/GW/06			Repo	ort No.: VEL/G	
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS  Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	32.12	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	16.15	mg/L	20	
22.	Colloidal Silica	IS: 3025 (P-35)	5.66	mg/L		177
23.	Total Organic Carbon	IS 3025 (P-69)	0.45	mg/L		922
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	25.73	(55
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr <sup>3+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L		( <del>-11</del> 11)
34.	Chromium as Cr <sup>6+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L		
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	13	MPN/100ml		HAS:
40.	E. coli	IS 15185:2016	Absent	Per 100ml		detectable in any ml sample

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

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





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# 'ardan EnviroLa





### **Test Report**

Sample Number:

Sample Description:

Sample Collected by:

Sample Location:

Preservation:

VEL/GW/07

Ground Water

STP Township

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Report No.: Format No.: VEL/GW/2306210007

7.8 F-03

Party Reference No.:

4000280838-057-2035 Dated

14.06.2022

Reporting Date:

Period of Analysis:

03/07/2023

21/06/2023 to 03/07/2023

Receipt Date:

21/06/2023 18/06/2023

Sampling Date: Sampling Quantity:

2.0 Ltr.

Sampling Type:

Grab

Refrigerated

Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Vardan EnviroLab Representative

Parameter Required:

As per work order

			The family of the control of the con	1	Limits of IS	S:10500 -2012
S. No.	Parameter	Parameter Test-Method		Unit	Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
l <sub>2</sub>	pH (at 25 °C)	IS: 3025 (P-11)	7.62		6.5 to 8.5	No Relaxation
2.	Temperature	IS:3025 (P-9)	27.2	°C	122	722
3.	Electrical Conductivity	IS: 3025 (P-14)	810	μS/cm	1999	1877
1.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
5.	Total Dissolved Solids	IS: 3025 (P-16)	470.00	mg/L	500	2000
5.	Total Suspended Solids	IS: 3025 (P-17)	5.00	mg/L	**	2 <u>2</u>
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	#	19221
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	BLQ(LOQ-4.0)	mg/L		( <b>**</b> **/)
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L	77.	7/247
11.	M-Alkalinity	IS: 3025 (P-51)	257.00	mg/L		(##)
12.	Calcium Hardness	IS: 3025 (P-40)	198.25	mg/L	1771	- Har
13.	Magnesium Hardness	APHA, 3500 Mg B	54.06	mg/L	He:	
14.	Total Hardness	IS: 3025 (P-21)	252.31	mg/L	200	600
15.	Sodium	IS: 3025 (P-45)	36.7	mg/L		
16.	Potassium	IS: 3025 (P-45)	2.5	mg/L	855	
17.	Sulphate as SO <sub>4</sub>	IS: 3025 (P-24)	65.49	mg/L	200	400
18.	Nitrate as NO <sub>3</sub>	1S 3025 (Part -34), Chromotropic Method	16.15	mg/L	45	No Relaxation
19.	Fluoride as F	APHA 4500 F D	0.64	mg/L	1.0	1.5



Manage



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# Vardan EnviroLa



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

-		Test Report		NEW CONTRACT	VEL IC	22206210007
Samp	ple Number: VEL/GW/07			Керо	ort No.: VEL/G	S:10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	Chloride as Cl	IS: 3025 (P-32)	32.36	mg/L	250	1000
21.	Reactive Silica	IS: 3025 (P-35)	26.90	mg/L		150
22.	Colloidal Silica	IS: 3025 (P-35)	3.20	mg/L		
23.	Total Organic Carbon	IS 3025 (P-69)	0.45	mg/L	4-	022
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	1.5
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.02	No Relaxation
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No Relaxation
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	**	(275)
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.01	No Relaxation
33.	Chromium as Cr <sup>3+</sup>	IS:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	199	8778
34.	Chromium as Cr <sup>6+</sup>	1S:3025 (P-52)	BLQ(LOQ-0.05)	mg/L	-	(Alexander)
35.	Selenium as Se	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0,001)	mg/L	0.01	No Relaxation
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.003	No Relaxation
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.001	No Relaxation
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L	0.05	No Relaxation
39.	Total coliform	IS 1622	14	MPN/100ml	399	HH.
40.	E. coli	IS 15185:2016	Absent	Per 100ml		detectable in any nl sample

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

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





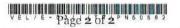
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# ardan EnviroLa



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

## **Test Report**

Sample Number:

Sample Description:

Sample Collected by:

Sample Location:

VEL/SW/08

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Report No.:

VEL/GW/2306210008

7.8 F-03 Format No.:

Party Reference No.:

4000280838-057-2035 Dated

14.06.2022

Reporting Date:

03/07/2023

Period of Analysis:

21/06/2023 to 03/07/2023

Receipt Date: Sampling Date: 21/06/2023 17/06/2023

Sampling Quantity:

2.0 Ltr.

Sampling Type:

Grab

Preservation:

Refrigerated

Village-MADHE

Surface Water

Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Vardan EnviroLab Representative

Parameter Required: As per work order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS: 3025 (P-11)	7.20	155
2.	Temperature	IS:3025 (P-9)	26.1	°C
3.	Electrical Conductivity	IS: 3025 (P-14)	380	μS/cm
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU
5.	Total Dissolved Solids	IS: 3025 (P-16)	233.0	mg/L
6.	Total Suspended Solids	IS: 3025 (P-17)	BLQ(LOQ-2.0)	mg/L
7.	Dissolved Oxygen	IS: 3025 (P-38)	6.9	mg/L
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	4.06	mg/L
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	9.85	mg/L
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L
11.	M-Alkalinity	IS: 3025 (P-51)	97.19	mg/L
12.	Calcium Hardness	IS: 3025 (P-40)	80.98	mg/L
13.	Magnesium Hardness	APHA, 3500 Mg B	38.61	mg/L
14.	Total Hardness	IS: 3025 (P-21)	119.59	mg/L
15.	Sodium	IS: 3025 (P-45)	10.6	mg/L
16.	Potassium	IS: 3025 (P-45)	1.0	mg/L
17.	Sulphate as SO <sub>4</sub>	IS: 3025 (P-24)	16.76	mg/L
18.	Nitrate as NO <sub>3</sub>	IS 3025 (Part -34), Chromotropic Method	5.0	mg/L
19.	Fluoride as F	APHA 4500 F D	BLQ(LOQ-0.2)	mg/L

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# ardan EnviroLa



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

### **Test Report**

Sample Number: VEL/SW/08			Report No.: VEL/SV	V/2306210008			
S. No.	Parameter	Parameter Test-Method		Parameter Test-Method Result		Unit	
20.	Chloride as Cl	IS: 3025 (P-32)	30.45	mg/L			
21.	Reactive Silica	IS: 3025 (P-35)	16.95	mg/L			
22.	Colloidal Silica	IS: 3025 (P-35)	3.15	mg/L			
23.	Total Organic Carbon	IS 3025 (P-69)	0.26	mg/L			
24,	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L			
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L			
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	0.22	mg/L			
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L			
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L			
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
33.	Chromium as Cr <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/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0,001)	mg/L			
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L			
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
39.	Total coliform	IS 1622	34	MPN/100m			
40.	E. coli	IS 15185:2016	Absent	Per 100ml			

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

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





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### **Test Report**

Sample Number:

Sample Description:

Sample Collected by:

Sample Location:

Preservation:

VEL/SW/09

Surface Water

Plant Effluent

Refrigerated

Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Vardan EnviroLab Representative

Report No .:

VEL/GW/2306210009

Format No.:

7.8 F-03

Party Reference No.:

4000280838-057-2035 Dated

21/06/2023 to 03/07/2023

14.06.2022

Reporting Date:

Period of Analysis:

03/07/2023

21/06/2023

Receipt Date: Sampling Date:

17/06/2023

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)	7.80	
2.	Temperature	IS:3025 (P-9)	27.2	°C
3.	Electrical Conductivity	IS: 3025 (P-14)	666	μS/cm
4.	Turbidity	IS: 3025 (P-10)	BLQ(LOQ-1.0)	NTU
5.	Total Dissolved Solids	IS: 3025 (P-16)	310.00	mg/L
6.	Total Suspended Solids	IS: 3025 (P-17)	17.00	mg/L
7.	Dissolved Oxygen	IS: 3025 (P-38)	5.3	mg/L
8.	BOD (3 Days at 27°C)	IS 3025 (P-44)	7.65	mg/L
9.	Chemical Oxygen Demand	APHA, 5220 B Open Reflux Method	26.69	mg/L
10.	P-Alkalinity	IS: 3025 (P-51)	Nil	mg/L
11.	M-Alkalinity	IS: 3025 (P-51)	154.75	mg/L
12.	Calcium Hardness	IS: 3025 (P-40)	145,29	mg/L
13.	Magnesium Hardness	APHA, 3500 Mg B	80.02	mg/L
14.	Total Hardness	IS: 3025 (P-21)	225.49	mg/L
15.	Sodium	IS: 3025 (P-45)	40.0	mg/L
16.	Potassium	IS: 3025 (P-45)	3,6	mg/L
17.	Sulphate as SO <sub>4</sub>	IS: 3025 (P-24)	26.50	mg/L
18.	Nitrate as NO <sub>3</sub>	IS 3025 (Part -34), Chromotropic Method	5.02	mg/L
19.	Fluoride as F	APHA 4500 F D	0.40	mg/L



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# Vardan EnviroLa



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

### **Test Report**

Sample N	Sample Number: VEL/SW/09			V/2306210009
S. No.	Parameter	Parameter Test-Method		Unit
20.	Chloride as Cl	IS: 3025 (P-32)	15.80	mg/L
21.	Reactive Silica	IS: 3025 (P-35)	12.84	mg/L
22.	Colloidal Silica	IS: 3025 (P-35)	5.15	mg/L
23.	Total Organic Carbon	IS 3025 (P-69)	0.12	mg/L
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
33.	Chromium as Cr <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/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L
39.	Total coliform	IS 1622	50	MPN/100m
40.	E. coli	IS 15185:2016	Absent	Per 100ml

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

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





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### **Test Report**

Sample Number:

VEL/SW/10

Name & Address of the Project:

M/s Nabinagar Power Generating Company

(NPGC)

Shivanpur, P.O.-Ankhora Railway Station, Bihar

Aurangabad, Bihar-824303, India

Report No.:

VEL/GW/2306210010

Format No.:

7.8 F-03

Party Reference No.:

4000280838-057-2035 Dated

14.06.2022

Reporting Date:

Period of Analysis:

03/07/2023

Receipt Date:

21/06/2023 to 03/07/2023 21/06/2023

Sampling Date:

17/06/2023

Sampling Quantity:

2.0 Ltr.

Sampling Type:

Grab

Parameter Required:

As per work order

Sample Description:

Sample Location:

Sample Collected by:

Vardan EnviroLab Representative Refrigerated

Surface Water

Raw Water Reservoir

Preservation: Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

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

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# Vardan EnviroLa



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

### **Test Report**

Sample Number: VEL/SW/10			Report No.: VEL/SV	V/2303280010			
S. No.	Parameter	Parameter Test-Method		Parameter Test-Method Result		Unit	
20.	Chloride as Cl	IS: 3025 (P-32)	16.80	mg/L			
21.	Reactive Silica	IS: 3025 (P-35)	10.94	mg/L			
22.	Colloidal Silica	IS: 3025 (P-35)	3.0	mg/L			
23.	Total Organic Carbon	IS 3025 (P-69)	0.25	mg/L			
24.	Boron	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L			
25.	Iron as Fe	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L			
26.	Copper as Cu	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
27.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L			
28.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.01)	mg/L			
29.	Nickel as Ni	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
30.	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.005)	mg/L			
31.	Vanadium as V	VEL/STP/ICP/W-01, Issue No01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
32.	Lead as Pb	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
33.	Chromium as Cr <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/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.001)	mg/L			
36.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
37.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.0005)	mg/L			
38.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No. 01, 01/11/2021	BLQ(LOQ-0.002)	mg/L			
39.	Total coliform	IS 1622	40	MPN/100m			
40.	E. coli	IS 15185:2016	Absent	Per 100ml			

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

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





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# Vardan EnviroLab





### **Test Report**

Sample Number:

the Project:

Name & Address of

VEL/N/01

M/s Nabinagar Super Thermal Power Station, P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India Report No.:

VEL/N/2306300001

Format No.:

7.8 F-03

Party Reference

4000280838-057-2035 Dated 14.06.2022

No.:

Reporting Date:

04/07/2023

Receipt Date:

30/06/2023

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by

Instrument Used

Instrument Calibration Status

Meteorological condition during monitoring

Time of Monitoring

Surrounding Activity

Scope of Monitoring

Control measure if Any

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

Vardan EnviroLab Representative

Sound Level Meter

Calibrated

Clear Sky

06:00 AM to 06:00 AM

Human, Vehicular & Other Plant Activities

Regulatory Requirement

IS-9989 & CPCB Guidelines

24 Hours

: As per Work Order

#### TEST RESULTS

		seguin Chappa Shorts I	Test Result dB (A)					
S. No.	Locations	Date of Sampling	Day Time			Night Time		
	The period of the second secon		(L <sub>Max</sub> )	(L <sub>Min</sub> )	(L <sub>eq</sub> )	(L <sub>Max</sub> )	(L <sub>Min</sub> )	(Leq)
1.	Turbine Area	26/06/2023-27/06/2023	68.5	52.2	64.20	65.2	42.0	52.20
2.	Compressor Area	26/06/2023-27/06/2023	62.6	54.9	57.24	60.4	40.0	54.75
3.	DG Area	26/06/2023-27/06/2023	64.9	50.4	62.49	61.6	44.6	55.90
4.	Plant Area	26/06/2023-27/06/2023	60.0	50.6	62.45	58.6	41.2	51.86
5.	Outside Plant Area	26/06/2023-27/06/2023	70.4	56.7	68.22	62.9	43.8	56.28
	imits in dB(A*) Leq al Area)			75.0			70.0	

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

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





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# dan EnviroLa



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

### **Test Report**

Sample Number:

VEL/N/01

Report No .:

VEL/N/2309300001

Name & Address of M/s Nabinagar Super Thermal Power Station,

Format No.:

7.8 F-03

the Project:

P.O.-Aditi Nagar, Aurangabad, Bihar-82430, India

Party Reference

4000280838-057-2035 Dated 14.06.2022

Reporting Date:

03/10/2023

Receipt Date:

30/09/2023

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by

Instrument Used

Instrument Calibration Status

Meteorological condition during monitoring

Time of Monitoring

Surrounding Activity

Scope of Monitoring

Control measure if Any

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

: Vardan EnviroLab Representative

Sound Level Meter

Calibrated

: Intermittent Rain

06:00 AM to 06:00 AM

Human, Vehicular & Other Plant Activities

Regulatory Requirement

No any

: IS-9989 & CPCB Guidelines

: 24 Hours

As per Work Order

#### TEST RESULTS

			Test Result dB (A)							
S. No.	Locations	Date of Sampling		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	27/09/2023-28/09/2023	71.4	50.3	66.78	64.2	41.8	49.70		
2.	Compressor Area	27/09/2023-28/09/2023	68.3	56.7	60.26	62.8	42.4	51.68		
3.	DG Area	27/09/2023-28/09/2023	65.7	52.7	60.12	63.9	46.7	51.87		
4.	Plant Area	27/09/2023-28/09/2023	62.3	48.6	54.76	56.3	43.9	48.6		
5.	Outside Plant Area	27/09/2023-28/09/2023	72.8	54.1	62.16	63.8	44.2	50.1		
	imits in dB(A*) Leq ial Area)	1		75.0			70.0			

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

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





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# **AAQM Data (APR-2023 to SEP-2023)**

An	ne	ΥI	ıre	<b>-</b> č	F

Parameters →		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	со	O <sub>3</sub>	NH <sub>3</sub>
l	JOM →	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³
Month Location		(24-Hours.	(24-Hours.	(24-Hours.	(24-Hours.	(1-Hour.	(1-Hours.	(24-Hours.
		Average)	Average)	Average)	Average)	Average)	Average)	Average)
Applicable Norms** →		100	60	80	80	4	100	400
							<b>-</b>	
	H-Blocck	69.89	44.44	15.02	30.38	0.83	32.77	NA
Apr-23	Admn. Building	77.5	48.63	12.06	27.53	0.7	29.37	NA
Api-23	RWPH	72.43	41.04	19.22	33.53	0.79	27.82	NA
	Shivanpur Gate	74.18	46.86	11.52	26.35	0.72	31.99	NA
	H-Blocck	71.16	45.56	16.54	31.89	0.84	35.04	BDL
May-23	Admn. Building	79.53	50.28	13.7	29.93	0.7	30.9	BDL
iviay-25	RWPH	75.07	42.19	21.42	34.41	0.79	28.46	BDL
	Shivanpur Gate	73.68	45.76	12.93	26.96	0.69	31.22	BDL
	H-Blocck	69.79	45.96	15.31	31.89	0.82	33.55	BDL
Jun-23	Admn. Building	77.53	47.63	13.1	27.69	0.68	30.04	BDL
	RWPH	72.45	41.29	21.66	31.8	0.77	27.98	BDL
	Shivanpur Gate	73.2	43.63	12.57	25.59	0.70	33.12	BDL
	H-Blocck	56.53	38.36	17.33	30.54	0.82	34.31	BDL
Jul-23	Admn. Building	54.55	38.11	15.36	28.45	0.68	30.9	BDL
Jui-25	RWPH	56.96	31.16	25.19	33.69	0.77	28.98	BDL
	Shivanpur Gate	56.47	31.63	15.21	27.02	0.82	34.31	BDL
	H-Blocck	63.29	41.35	16.04	26.51	0.81	35.20	BDL
Aug-23	Admn. Building	54.72	33.13	13.58	25.87	0.68	31.59	BDL
Aug-25	RWPH	54.68	31.90	21.98	35.41	0.77	29.14	BDL
	Shivanpur Gate	52.04	30.70	13.76	26.72	0.69	33.11	BDL
	H-Blocck	61.71	41.80	12.89	25.99	0.79	34.07	BDL
Sep-23	Admn. Building	54.14	33.08	11.84	25.42	0.69	30.39	BDL
3ep-25	RWPH	56.15	32.14	22.45	30.94	0.76	29.18	BDL
	Shivanpur Gate	51.91	31.42	10.89	26.64	0.65	32.92	BDL

<sup>\*</sup> BELOW DETECTION LIMIT

<sup>\*\* (</sup>MoEF&CC NOTIFICATION DATED 16th NOVEMBER, 2009)

# NABINAGAR SUPER THERMAL POWER STATION UNIT OF NTPC LTD.

### Annexure - F

S.N.	Description	Present Status	Action Required
1	Progress on FGD Package	Package is already delayed by 15 Months w.r.t. Revised schedule due to Covid Impact. 24 months w.r.t. Original schedule.	Immediate action needed for mitigating delays
		Civil Works:  • RCC Scope: 31,420cum; Completed: 23,565 cum (75%)	Performance of Starcon is poor. Additional Civil Agency need to be deployed by BHEL to improve work progress.
		Chimney Works  A. RCC Shell Concrete: Completed - 100%  B. Flue can work:  • U#1: Flue can erection i/p. Compln by Apr 24  • U#2: fabrication completed, Erection start by Feb' 24 Comp by July'24.  • U#3: cane fabrication i/p, comp by March'24. Erection start by June 24, completion by Nov24	Flue can fabrication for U3 activities need to be expedited. Lifting activity shall also be monitored.
		Equipment Erection Works: 7200/30,000MT completed	
2	Engineering	682/832 (82%) completed	To be expedited and ensured completion of engineering at the earliest
3	Supply of main equipment	BOIs: Major BOI ordering completed. Supply Started. Details are following Ranipet- 12000/17000 MT supplied. Trichy- 6500/7400 MT Others- 1500 MT	Supply to be expedited  Supply from other BHEL units need to be expedited.

		PI	PM (mg/Nm <sup>3</sup> )		$SO_2 (mg/Nm^3)$		NOx (mg/Nm <sup>3</sup> )			Mercury (Hg) Emission			
	Installed			Value		Actual	Value			Value		Actual	Value
UNIT_NO	Capacity	Applicable	Min.	Max.	Applicable		Max.	Applicable		Max.	Applicable	Min.	Max.
	(MW)	Norm *	Value for	Value for	Norm *	Value for	Value for	Norm *	Value for	Value for	Norm *	Value for	
			the month	the month		the month	the month		the month	the month		the month	the month
Apr-23													
1	660	30	22	28	100	1510	1697	100	245	347	0.03	BDL	≤0.005
2	660	30	24	29	100	1450	1614	100	230	319	0.03	BDL	≤0.005
3	660	30	23	28	100	1490	1713	100	240	323	0.03	BDL	≤0.005
May-23													
1	660	30	22	25	100	1425	1568	100	265	342	0.03	BDL	≤0.005
2	660	30	24	26	100	1490	1639	100	270	349	0.03	BDL	≤0.005
3	660	30	23	25	100	1460	1591	100	235	317	0.03	BDL	≤0.005
Jun-23													
1	660	30	22	23	100	1550	1730	100	265	337	0.03	BDL	≤0.005
2	660	30	23	22	100	1610	1688	100	230	281	0.03	BDL	≤0.005
3	660	30	24	26	100	1590	1790	100	288	306	0.03	BDL	≤0.005
Jul-23													
1	660	30	24	26	100	1350	1520	100	272	350	0.03	BDL	≤0.005
2	660	30	25	24	100	1360	1541	100	250	327	0.03	BDL	≤0.005
3	660	30	24	25	100	1450	1709	100	286	360	0.03	BDL	≤0.005
Aug-23													
1	660	30	23	26	100	1215	1615	100	290	345	0.03	BDL	≤0.005
2	660	30	24	27	100	1222	1628	100	283	327	0.03	BDL	≤0.005
3	660	30	26	29	100	1208	1664	100	288	361	0.03	BDL	≤0.005
Sep-23													
1	660	30	24	27	100	1154	1607	100	278	360	0.03	BDL	≤0.005
2	660	30	26	28	100	1237	1620	100	285	350	0.03	BDL	≤0.005
3	660	30	25	29	100	1187	1890	100	276	310	0.03	BDL	≤0.005

BDL - Below Detection Limit

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

Monthly Water Consumption for FY-2023-24
--

Monthly W Station Capacity NTPC Nabinagar 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	Apr'23	4421353	4421353	1	1344.16	94.29	3.29	3.29
2	May'23	4744273	4744273	-	1294.33	87.86	3.67	3.67
3	June'23	3695263	3695263	-	1239.32	86.93	2.98	2.98
4	July'23	3739561	3529561	21000	1305.50	88.62	2.86	2.70
5	Aug'23	4106264	3896264	21000	1339.69	90.94	3.07	2.91
6	Sept'23	4146714	3936714	21000	1346.21	94.43	3.08	2.92
Total		2,85,83,006.00	2,79,32,006.00		9053.04		3.16	3.08