

From: Kamlesh Kr Jha
Sent: 27 May 2025 17:09
To: ro.ranchi-mef@gov.in; 'ranchijspcb@gmail.com'; zokolkatta.cpcb@nic.in
Cc: JSPCB, Jamshedpur
Subject: Submission of Half yearly compliance status report (Unit II) of M/s Adhunik Power & Natural Resources Ltd for the period – October 2024 to March 2025,-Reg.
Attachments: Annexure XVIII-EC compliance Half Yearly -Unit II (April 24 -September 24).pdf; Covering Letter with Half yearly compliance Report -Unit II(Oct 24-March 2025).pdf; Annexure I-(Dalma Wildlife sanctuary).pdf; Annexure II-Ground Water Baseline - March 2025.pdf; Annexure III-Piezometer.pdf; Annexure IV-Surface Water Monitoring Report -March 2025.pdf; Annexure IX-CSR report April 24-March'25.pdf; Annexure VI-Fly Ash Generation & Utilization (2024-25).pdf; Annexure VII-Bottom Ash Monitoring Report -March 2025-103.pdf; Annexure VIII-Ash Pond Outlet water Monitoring Report -March 2025-102.pdf; Annexure V-Stack Monitoring-Unit II- -March 2025-13-14.pdf; Annexure X- List of Local employees.pdf; Annexure XI-ETP Outlet Monitoring Report -March 2025-49.pdf; Annexure XII- Sewage Treatment Plant -60KLD.pdf; Annexure XIII(a)-LDO Test report.pdf; Annexure XIII-LDO Certificate 2023-26.pdf; Annexure XIV-Abmient Noise Monitoring Report -March 2025-9.pdf; Annexure XIV-Work Zone Noise Monitoring Report -March 2025-10.pdf; Annexure XV-Ambient Air Monitoring Report(BUffer)-March 2025.pdf; Annexure XV-Ambient Air Monitoring Report(Core) -March 2025-7-8.pdf; Annexure XVI-EMC CELL-31.12.2022.pdf; Annexure XVII-Environment Statement -Unit II- Submission Letter.pdf

Ref:- MoEF & CC issued Environment Clearance File No. J-13012/8/2009-IA.II(T), Dated 09th May 2011.

Sir,
With reference to the above referred Environmental Clearance of Unit II (1 x270 MW), we are pleased to submit herewith the half yearly compliance status report with Annexures for the period of **October 2024 to March 2025**.

Following Documents are attached :

1. Covering Letter with compliance report of Environment Clearance –Unit II
2. Annexure I- (Notification of Dalma Wildlife sanctuary)
3. Annexure II-Ground Water quality report in comparison with Baseline
4. Annexure III-Piezometer
5. Annexure IV-Surface Water Quality Report
6. Annexure V-Stack Monitoring Report- U II
7. Annexure VI-Fly Ash Disposal report (April 2024- March 2025)
8. Annexure VII-Bottom Ash Report (1)
9. Annexure VIII-Ash Pond Outlet Water Quality
10. Annexure IX-CSR-Report (April 24- March 2025)
11. Annexure X-List of Local employees
12. Annexure XI-ETP Treated Water Quality Report
13. Annexure XII- Sewage Treatment Plant -60KLD
14. Annexure XIII-LDO Certificate 2023-26
15. Annexure XIII(a)-Coal Test report
16. Annexure XIV-Noise Monitoring Report
17. Annexure XV-Ambient Air Quality Report
18. Annexure XVI-EMC CELL-31.12.2022
19. Annexure XVII-Environment Statement -Unit II (2023-24)
20. Annexure XVIII-HYC-Unit II (**April 2024- September 2024**)-Acknowledgement Copy

This is for your reference and record, please.

Thanks & Regards,

Kamlesh Kumar

Adhunik Power & Natural Resources Ltd.

Vill.-Padampur,,Behind P.G.C.I.L Substation,Tata-Kandra Road

Saraikela-Kharsawan,Pincode:-832402,Jharkhand

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ADHUNIK POWER & NATURAL RESOURCES LIMITED

WORKS : Village - Padampur, Behind P.G.C.I.L. Substation,
Adityapur - Kandra Road, Saraikela - Kharsawan, PIN - 832402 Jharkhand
Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC102935

Ref: MOE&F, RNC/HYC/KKJ/27525/02

Dated: 27.05.2025

To,

The Regional Office (Eastern-Central Zone)
Ministry of Environment, Forest & Climate Change
2nd Floor, Jharkhand State Housing Board (HQ)
Harmu Chowk, Ranchi, Jharkhand-834002

Sub: - Submission of Half-yearly compliance status report (Unit II) for the period – October 2024 to March 2025 -Reg.

Ref:- MoEF EC letter No.J-13012/8/2009-IA.II(T), Dated 09th May 2011.

Sir,

With reference to the above-referred Environmental Clearance, we are pleased to submit herewith the half-yearly compliance status report (Unit II) for the period of **October 2024 to March 2025**.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

(Authorized Signatory)

Encl: As Above

Copy to:

1. Central Pollution Control Board, Kolkata
2. Member Secretary, Jharkhand State Pollution Control Board, Jharkhand
3. Regional Officer, JSPCB, Jamshedpur

CORPORATE OFFICE : "LANSDOWNE TOWER", 2/1A, Sarat Bose Road, Kolkata - 700 020

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Website

: www.adhunikpower.com

REPORT

**ENVIRONMENTAL COMPLIANCE STATUS REPORT
FOR
EXPANSION OF 1X270 MW COAL BASED POWER
PLANT
(Unit II)**



OCTOBER 2024 – MARCH 2025

**Adhunik Power & Natural Resources Limited
Village: Padampur, Behind PGCIL Substation
Kandra Chouka Road, Saraikela-Kharsawan
Jharkhand**

Adhunik Power & Natural Resources Limited Vill: Padampur, Behind PGCIL Substation, Kandra Chouka Road, Saraikela-Kharsawan, Jharkhand		
Environmental Clearance Letter No: J13012/8/2009-IA .II (T) dtd 9th May 2011.		
Period Of Compliances: October 2024 to March 2025		
SI No	EC Conditions	Status as on 31 st March 2025
A. Specific Conditions:		
i.	Environmental clearance for the proposed expansion shall be applicable only for addition of 1x270 MW out of proposed addition of 3x270. However at a later stage when firm coal linkage for second and third units of 270 MW are also available, the project proponent may request the Ministry for inclusion of second and third units i.e. 2x270 MW, which the Ministry shall consider appropriately.	Noted
ii.	The Ministry had issued a draft Notification on 30 th September, 2011 vide S.O. 691(E) under the Environment (Protection) Act, 1986 notifying the areas upto 5 km from the boundary of the protected area of Dalma Wildlife Sanctuary in the State of Jharkhand as the Eco-sensitive Zone. The necessity of obtaining environmental clearance from the National Board for Wild life would arise only if the proposed project area falls within the boundary of the finally notified eco-sensitive zone.	As per notification date 29 th September 2012 project boundary are beyond the stipulated distance from the boundary of the protected area of Dalma Wildlife Sanctuary in the State of Jharkhand as the Eco-sensitive Zone. Notification regarding nearest distance from Dalma wildlife sanctuary enclosed as Annexure I. Complied
iii.	Wildlife conservation plan shall be implemented during the development of project itself and the status of implementation shall be submitted to the Ministry from time to time.	The Wild Life Management Plan (WLMP) has prepared already been approved by PCCF, Ranchi on May'10.2010. Complied
iv.	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Vision document report has submitted at MoEF on 30 th Dec 2011. Complied
v.	Possibility for harnessing solar power within the premises of the plant (particularly at available roof tops) shall be examined and status of implementation shall be submitted.	Installation of solar light system in all vulnerable area are completed.
vi.	Transport of coal shall be by rail only. The project proponent shall accordingly take up the matter with the Railways. Status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	As per the Environment (Protection) Amendment Rules, 2020 dated 21 May 2020, Transport of coal by covered trucks, has been permitted.
vii.	A study shall be undertaken by an organization of repute such as RIT, Jamshedpur on source sustainability of water, based on the data of the source of water (Subarnarekha River) for the last 50 years and a report submitted within six months.	Water sustainability report has been prepared by IIT Kharagpur. Report was already submitted to MoEF BBS dated 11.11.11. Complied

viii.	Water usage shall be restricted to 30 MCM.	Complied.
ix.	The project proponent shall seriously undertake rain water harvesting measures and shall develop water storage capacity for a larger period not less than 30 days storage before commissioning of the plant. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	The Rain water harvesting report has already been submitted and approved from CGWA, Ranchi. 13 no Rain water harvesting structures has been constructed in accordance with the approved rain water harvesting plan. Complied
x.	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponents expenses in consultation with the state govt.	Degenerated pond has been renovated as per request from local people/Gram Panchayat .
xi.	Hydrogeology of the area 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 Regional Office of the Ministry.	Hydrogeology study are conducted by renowned expert organization to access impact of Surface water & ground regime. Regular monitoring of ground water quality in and around ash pond area including heavy metals is being carried out periodically. Ground water analysis report of upstream & Downstream of Ash pond in compared with baseline data for the month of March 2025 are enclosed as Annexure II.
xii.	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.	Lean season data has already submitted To MoEF BBS on 19th aug 2011. Complied
xiii.	No ground water shall be extracted for use in operation of the power plant even in lean season.	Ground water has not extracted for operation of the Power Plant.
xiv.	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.	Natural drainage system has not been disturbed.
xv.	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.	We are regular in touch with State Government ,if any suggestion will received from State Government , we shall adhere as per guidelines and same shall be inform to your good office.
xvi.	COC of 5.0 shall be adopted.	COC 5.0 has been considered for cooling tower design.
xvii.	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	Regular monitoring of ground water in and around ash pond area including heavy metals is being carried out & report submitted to MoEF. Ground water analysis report of upstream & Downstream of Ash pond compared with baseline data for the month of March 2025 are enclosed as Annexure II. Regular monitoring of ground water level are done through Piezometer installed at following

	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.	locations: 1. 22°50'20.9"N 86°03'27.4"E 2. 22°50'09.5"N 86°03'48.1"E 3. 22°49'50.1"N 86°03'37.9"E Photographs of installed Piezometers are enclosed as Annexure III .
xviii.	Monitoring surface water quality in the area 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.	Ground water analysis report of upstream & Downstream of Ash pond and Surface Water Analysis report for the month of March 2025 are enclosed as Annexure II & Annexure IV respectively.
xix.	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved. The leveling in plant area should be minimum with no or minimal disturbance to the natural drainage of the area.	Complied.
xx.	Provision for installation of FGD shall be provided for future use	FGD space is available on site for future use and installation of FGD are initiated.
xxi.	The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.	Effective provision for dust suppression system has been strictly implemented at all dust prone areas such as road, coal stock yard, Truck tippler, Ash pond & others areas. Fugitive emission could not be occurred due to nature of wet condition of bottom ash. However additional arrangement of water sprinkling has been implemented in case of emission occurs. In addition, 03 No Water tankers are deployed for dust suppression.
xxii.	Stacks of 275 m height shall be installed and provided with continuous online monitoring equipments for SO _x , NO _x and PM _{2.5} & PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	Twin flue chimney of 275m height has constructed for proper dispersion of flue gases. Online monitoring equipment has installed at chimney. Hg concentration is well within prescribed limits. Complied
xxiii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	High efficient ESPs of 32 fields have installed to ensure control PM emission in flue gas. Stack Monitoring report from For the month of March 2025 are enclosed as Annexure V.
xxiv.	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.	Necessary mitigation measures in accordance with EMP and EC conditions has taken to control fugitive emissions from ash storage/transfer and coal handling plant such as installation and operation of bag filters collectors, use of water spray systems and enclosed conveyors with well designed, extraction and filtration equipment on transfer points. Complied
xxv.	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Fly Ash utilization are adhered in compliance with MoEF&CC notification dated 31.12.2021. Fly Ash generation & Utilization report (April 2024 to March 2025) are enclosed as Annexure VI .

xxvi.	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 form. 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.	02 No Silos has Constructed to storage of fly ash. Monitoring of mercury and other heavy metals (As, Hg, Cr, Pd etc.) in the bottom ash and also in the effluents emanating from the ash pond is being done periodically. Bottom ash analysis report & effluent analysis report of ash pond For the month of March 2025 are enclosed as Annexure VII & Annexure VIII respectively.
xxvii.	Ash pond shall be lined with HDPE/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.	Complied.
xxviii.	For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) shall be done after obtaining due permission from DGMS and after ensuring 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	Not Applicable.
xxix.	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.6 % 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.	The Sulphur content in used coal conforms the limits. As per the Environment (Protection) Amendment Rules, 2020 dated 21 May 2020, Use of coal by Thermal Power Plants, without stipulations as regards ash content or distance shall be permitted.
xxx.	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 75 m width shall be raised. The density of tree shall not less than 2500 per ha and survival rate not less than 80 %.	A thick green belt of adequate width is being developed.68123 nos. (Area covered-30.9 Hac) of plantation has been completed in and outside along the periphery of the power plant to arrest any dust emissions and help in attenuation of noise. Total Survival rate of Plant are 85.6 %. Name of Plant Species- Neem, Seesam, Mango, Jamun etc.
xxxi.	Over and above the green belt, as carbon sink, social forestry shall be carried out in close consultation with the Forests Department. The project proponent shall accordingly identify blocks of land / degraded forests and shall undertake regeneration of degraded forests at a large scale. In pursuance to this the project proponent shall formulate time bound action plan along with financial allocation and shall submit status of implementation to the Ministry within six months.	Letter has been submitted to Forest Department for guidance on implementation of social forestry.

xxxii.	At least three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.	APNRL has adopted villages - Barahariharpur - Padampur - Srirampur CSR is also providing the facilities in following villages - Pindrabera - Chotahariharpur - Ramjivanpur - Bikanipur etc. Details of CSR activity enclosed as Annexure IX.
xxxiii.	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Details of CSR activity enclosed as Annexure IX.
xxxiv.	A time bound implementation of the CSR shall be formulated within six months and submitted to the Ministry. CSR schemes shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR, prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken.	List of local employed youth enclosed as Annexure X. Complied
xxxv.	For the tribal families (if any) living in the area within 5.0 Km of site, affected directly or indirectly by the proposed project, specific schemes for upliftment of their sustainable livelihood shall be prepared with time bound implementation and in-built monitoring programme. The status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	CSR activities are being carried out in the surrounding villages keeping in mind the upliftment of tribal families. Details of CSR activity enclosed as Annexure IX.
xxxvi.	An amount of Rs 23.70 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 4.74 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.	We have submitted copy of capital cost & year wise recurring expenditure on CSR activities to MoEF &CC, Ranchi Office on 05.12.2018. Complied.
xxxvii.	It 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	All CSR activities are monitored on weekly and monthly basis. We have conducted social audit through renowned organization who are well aware about Social Audit in Jharkhand region. Copy of Social audit shall be submitted shortly.

B. General Conditions:		
i.	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not do not get mixed.	Complied. Treated effluent analysis report of ETP from For the month of March 2025 are enclosed as Annexure XI. Adequate and separate drainage structures has provided to channel storm water generated onsite into rain water harvesting structures constructed in accordance with the approved rain water harvesting plan.
ii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation	STP 60 Kl capacity (03 No) has installed within plant premises to treat sewage waste. Photographs enclosed as Annexure XII.
iii.	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.	The design of coal yard along with provision of fire safety measures viz. fire hydrants, water sprinklers has installed. Complied
iv.	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.	Approval received on dated 24/02/2022. License No. P/HQ/JH/15/1065 (P257355), valid upto 31.12.2026 for LDO storage installation (under Petroleum Class "C") for operations. Copy of Approval are enclosed as Annexure XIII. APNRL uses liquid fuel with sulfur content variation between 0.35 -1.5% which is provided by RIL. Copy of Test report are enclosed as Annexure XIII(a) Emergency Response Plan (ERP) has prepared as part of the project ESMS to cater to potential emergencies/risks identified.
v.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Plant is in operational condition however A first aid center comprising with necessary medical facilities is made available onsite to provide emergency medical aid to both contract workers and company staff. Complied.
vi.	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dBA from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs 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	Adequate measures has implemented in consistent with the EMP to control turbine noise levels within stipulated limits. This include installing of sufficient engineering control in turbines as per design specifications, provision of ear plugs/ear muffs for workers exposed to high noise, rotation of workers and carrying out periodic audiometric testing of workers and records is being maintained. Noise level monitoring report For the month of March 2025 are enclosed As Annexure XIV.
vii.	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed	Ambient Air monitoring reports carried out by NABL accredited Laboratory for the month of March 2025 are enclosed As Annexure XV. Review of air quality monitoring results revealed compliance to NAAQS.

	the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Realtime data of CAAQMS has been uploaded at CPCB & JSPCB website.
viii.	Provision shall be made for the housing of construction labor (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Plant is in operational condition and local labors are coming from nearby villages. Complied
ix.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied
x.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / 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.	A copy of EC has been submitted in Gram Panchayat & DC office and copy of Environment Clearance has been uploaded on company website.
xi.	An Environmental Cell comprising of at least one expert in environmental science / engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization and he shall be held responsible for implementation of environmental regulations and social impact improvement/mitigation measures.	A Environmental Management Cell consist high qualified environmental professionals are being operational onsite to ensure effective implementation of specific EMPs. Organization chart of Environmental Management Cell enclosed as Annexure XVI.
xii.	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	The updated compliance status of the stipulated EC conditions along with monitored data has been uploaded on the company website. The monitoring data (SPM, RSPM, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. Compliance status of the stipulated EC conditions has been uploaded on company website and hard copy of

	levels namely; SPM, RSPM (PM _{2.5} & PM ₁₀), SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	same has been submitted for the period of April 2022 to September 2022 in office of MoEF, Ranchi & CPCB office, Kolkata along with monitored data.
xiii.	The environment statement for each financial year ending 31 st September 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.	The last environmental statement for financial year (2023-24) in Form V has submitted to JSPCB/CPCB/MoEF dated 24 th Sep 2024 through E mail. Acknowledgement copy of same attached as Annexure XVII. Environment Statement (2023-24) has been uploaded on company website.
xiv.	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	Last six-monthly reports for the project along with environmental monitoring data submitted to MoEF RO at Ranchi office vide letter No MOE&F, RNC/HYC/KKJ/11224/02, dated 01 st December 2024 through E mail. Acknowledgement copy of same attached as Annexure XVIII.
xv.	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project 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 _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information already submitted to the Board. The updated compliance status of the stipulated EC conditions along with monitored data has been uploaded on the company website. The monitoring data (SPM, RSPM, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company.
xvi.	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These 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.	Adequate budgetary provision has been made by the APNRL for execution of environmental management plan.

xvii.	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	Complied
xviii.	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	We ensure.

कार्यालय :- प्रधान मुख्य वन संरक्षक झारखण्ड, राँची।

पत्रांक:-19एम01(5)29/2008 2574 दिनांक:-23.7.09

सचिव,
वन एवं पर्यावरण विभाग,
झारखण्ड सरकार, राँची।

मैसर्स आधुनिक थर्मल एनर्जी लिमिटेड के कान्झा पदमपुर, श्री रामपुर, रामचन्द्रपुर मौजा, जिला-सरायकेला-खरसावा में स्थापित किये जाने वाले थर्मल पावर प्रोजेक्ट के लिए पर्यावरणीय स्वीकृति के संबंध में।

विभागीय पत्रांक-308, दिनांक-04.02.09

उपर्युक्त विषयक संदर्भ में सूचित करना है कि प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, राँची ने अपने पत्रांक 463, दिनांक-02.07.2009 (छायाप्रति संलग्न) द्वारा संबंधित विषय पर प्रतिवेदन/मंतव्य समर्पित किया है। उक्त प्रतिवेदन एवं उपलब्ध अभिलेखों के आधार पर प्रस्तावित परियोजना स्थल के संबंध में स्थिति निम्नवत् है :-

1. विषयक थर्मल पावर प्रोजेक्ट काण्डा पदमपुर, श्रीरामपुर, रामचन्द्रपुर मौजा की गैर-वन भूमि पर स्थापित किये जाने का प्रस्ताव है।
2. उपरोक्त पावर प्रोजेक्ट दलमा वन्यप्राणी आश्रयणी की निकटतम सीमा से लगभग 7.5 कि०मी० दूर स्थापित होगा। प्रस्तावित क्षेत्र की 10 कि०मी० त्रिज्या के अंदर अवस्थित वन भूमि सिंहभूम गज आरक्ष्य का भाग है।
3. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, राँची के द्वारा पावर प्रोजेक्ट के लिए प्रस्तावित स्थल को प्रस्तावित इको-सेंसिटिव जोन से सटा हुआ बताया गया है, जबकि दलमा वन्यप्राणी आश्रयणी के लिए प्रस्तावित इको-सेंसिटिव जोन से संबंधित जो प्रस्ताव राज्य सरकार को भेजा गया है उसके अनुसार प्रस्तावित स्थल प्रस्तावित इको-सेंसिटिव जोन की निकटतम सीमा से लगभग 2.5 कि०मी० दूर अवस्थित है। इस क्रम में अनुलग्नक- 1 पर दो प्रतियों में नक्शा संलग्न है।
4. पावर प्रोजेक्ट के लिए प्रस्तावित स्थल से 8 से 10 कि०मी० की दूरी पर दलमा-रूगाई गज-कोरीडोर एवं दलमा-चंडिल गज-कोरीडोर अवस्थित है। इस क्षेत्र के पास एक अन्य गज-कोरीडोर चांडिल-माथा कोरीडोर भी है, जो प्रस्तावित स्थल से 10 कि०मी० से अधिक दूरी पर अवस्थित है। इसके अतिरिक्त कोई अन्य हाथी कोरीडोर प्रस्तावित

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क्षेत्र के पास पूर्व चिन्हित नहीं है। उपरोक्त गज-कोरीडोर को दिखाते हुए नक्शा (अनुलग्नक-2) दो प्रतियों में संलग्न है।

5. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची के द्वारा अपने प्रतिवेदन में यह उल्लेख किया गया है कि दलमा वन्यप्राणी आश्रयणी की दक्षिणी सीमा पर स्वर्णरेखा नहर की गहरी खोदाई के कारण इस क्षेत्र में हाथियों का आवागमन अनियमित है। उन्होंने यह भी वर्णित किया है कि आश्रयणी से हाथियों का आवागमन रामगढ़, एन0एच0-33, डोभी, कपालन, तमोलिया होते हुए पुनः आश्रयणी की ओर हो रहा है। पूर्व में यह पलना जलाशय तक होता था, जो वर्तमान में नहर की खोदाई के कारण बाधित है। इस संबंध में नक्शे की समीक्षापरांत यह पाया गया है कि यदि हाथियों का आवागमन पूर्ववतः आश्रयणी से पलना जलाशय तक होता भी है तब भी प्रस्तावित स्थल ऐसे किसी आवागमन मार्ग के बीच में नहीं आयेगा। पलना जलाशय की लोकेशन को दर्शाते हुए एक नक्शा भी इस पत्र के साथ संलग्न किया जा रहा है जिससे स्पष्ट होगा कि यह जलाशय प्रस्तावित स्थल से लगभग 17 कि0मी0(उत्तर पूर्व) की दूरी पर अवस्थित है। प्रस्तावित स्थल होकर हाथियों का आवागमन होने की या कोई पूर्व-स्थापित गज-कोरीडोर होने की कोई ठोस सूचना/प्रमाण उपलब्ध नहीं है।
6. झारखंड राज्य में गज-कोरीडोर को चिन्हित करने का कार्य एक स्वयंसेवी संस्था "वाइल्ड लाइफ ट्रस्ट ऑफ इण्डिया, नई दिल्ली" के द्वारा किया गया है। इस कार्य में झारखंड वन विभाग के द्वारा भी सहयोग किया गया था। उपरोक्त स्वयंसेवी संस्था द्वारा प्रकाशित 'Right of Passage- Elephant Corridors of India' नामक पुस्तक में झारखंड राज्य के लिए कुल 14 गज-कोरीडोर वर्णित है तथा इसी सूचना के आधार पर कंडिका चार में वर्णित तीन गज कोरीडोर को नक्शे पर दर्शाया गया है।
7. प्रस्तावित स्थल के आसपास कई अन्य उद्योग, यथा पावर ग्रिड कॉरपोरेशन ऑफ इण्डिया लि0, बी0के0 स्टील आई0ओ0सी0एल0, टी0सी0एस0, उषा मार्टिन, नीलांचल स्टील, आदि स्थापित हैं। यह अनुलग्नक-3 पर दो प्रतियों में उपलब्ध नक्शे से स्पष्ट है। इस क्षेत्र में कई उद्योग होने के कारण भी इसे दलमा वन्यप्राणी आश्रयणी के प्रस्तावित इको-सेंसिटिव जोन से बाहर रखा गया था।
8. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची ने प्रस्तावित स्थल दलमा आश्रयणी एवं elephant bearing area के समीप होने के कारण हाथियों के आवागमन पर पड़ने वाले प्रतिकूल प्रभाव की संभावना बताते हुए प्रस्तावित परियोजना हेतु अनापत्ति प्रमाण-पत्र निर्गत नहीं करने की अनुशंसा की है। परंतु वन संरक्षक, वन्य प्राणी अंचल, रांची ने वन प्रमण्डल पदाधिकारी द्वारा अपने प्रतिवेदन में उठाए गये विभिन्न विन्दुओं पर

समीक्षात्मक टिप्पणी अंकित करते हुए उनकी अनुशंसा से सहमति व्यक्त नहीं की है, जो उपरोक्त कंडिकाओं में उलेखित तथ्यों एवं संलग्नक मानचित्रों पर आधारित है। प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची, वन संरक्षक के उपर्युक्त मंतव्य से सहमत हैं।

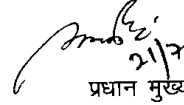
9. प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची द्वारा अग्रलिखित शर्त पर संबंधित परियोजना हेतु एनओसी निर्गत करने की अनुशंसा की गई है कि EIA के ToR की शर्त V के आलोक में प्रयोक्ता अभिकरण को इस आशय की वचनबद्धता देनी होगी कि प्रयोक्ता अभिकरण वन्य प्राणी विशेषज्ञ की मदद से Wildlife Mitigation and Conservation Plan उक्त क्षेत्र विशेष हेतु तैयार करा कर EIA में शामिल करेंगे और उक्त योजना का कार्यान्वयन वन विभाग के माध्यम से प्रयोक्ता अभिकरण की लागत पर किया जायेगा।

प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची के उपर्युक्त मंतव्य से अद्योहस्ताक्षरी सहमत हैं।

अनुरोध है कि विषयगत पर्यावरणीय स्वीकृति पर अग्रतर कार्यवाई करने की कृपा की जाय।

अनु०—यथोक्त।

विश्वासभाजन,



प्रधान मुख्य वन संरक्षक,
झारखण्ड, रांची।

21/7
19/7



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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ISO 9001:2015 & ISO 45001:2018



Test Report

Baseline Ground Water Quality Report

Discipline	Chemical	Group	Water	Sample Description	Ground Water
Report Release Date		31 st March, 2025		Type of Industry (if any)	Thermal Power Plant
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikele-Kharsawan, Jharkhand.			
Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-GW-02
Sampling Plan	YBAEEL/SP/March/12/2025	Sampling Method	IS -17614 (Part-1):2021		
Sampling Location	Hariharpur Village	Sampling Source	Ground Water		
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity	3000 ml		
Meteorological Cond. of Field	W.C.- Clear	RH % - 49	Temp. - 32°C		
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

*****Test Results*****

SI	Parameter	Test Method	Units	Results	Baseline Ground Water Quality	Permissible Limit (as per IS 10500 Specification)
1.	pH value	IS 3025 (P-11):2022 (Electrometric Method)	pH	6.7 at 25.5°C	6.9-7.4	6.5-8.5
2.	Taste	IS 3025 (P-07 & 08):2017&2023	--	Agree.	Agreeable	Agreeable
3.	Odour	IS 3025 (P-05):2018	--	Agree.	Unobjectionable	Agreeable
4.	Colour	IS 3025 (P-04):2021 (Visual Comparison Method)	Hazen	<5	<5	5-15
5.	Conductivity	IS 3025 (P-14):2013, RA 2019	µs/cm	640.0 at 25.6°C	--	--
6.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):1986, RA 2019 (Indicator Method)	mg/l	150.0	147-269	200-600
7.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009, RA 2019 (EDTA Method)	mg/l	220.5	128-308	200-600
8.	Total dissolved solids	IS 3025 (P-16):2023 (Gravimetric Method)	mg/l	466.0	251-538	500-2000
9.	Chlorine Residual	IS 3025 (P-26):2021 (Iodometric Method)	mg/l	BDL (MDL 0.07)	<0.05	0.2-1
10.	Chloride (as Cl)	IS 3025 (P-32):1988, RA 2019 (Argentometric Method)	mg/l	52.12	42-74	250-1000
11.	Fluoride (as F ⁻)	APHA 4500 F-C 24 th edition 2023 (Ion Selective Electrode Method)	mg/l	0.22	0.31-0.50	1.0-1.5
12.	Nitrate (as NO ₃ ⁻ N)	APHA 4500 NO ₃ ⁻ (B) 24 th edition 2023 (UV Screening Method)	mg/l	2.86	03-24	45-No relaxation
13.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24-Sec 1):2022 (Turbidity Method)	mg/l	68.21	06-28	200-400
14.	Calcium (as Ca)	IS 3025 (P-40): 1991, RA 2019 (EDTA Titrimetric Method)	mg/l	74.55	41-99	75-200
15.	Magnesium (as Mg)	APHA 3500 Mg B 24 th edition 2023	mg/l	8.29	--	30-100
16.	Sodium (as Na ⁺)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	34.0	--	--
17.	Potassium (as K ⁺)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	1.0	--	--

Prepared By – Sweta Kumari (Lab Analyst)


Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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State Pollution
Control Board

Test Report

Baseline Ground Water Quality Report

Discipline	Chemical	Group	Water	Sample Description	Ground Water
Report Release Date	31 st March, 2025	Type of Industry (If any)	Thermal Power Plant		
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.				
Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-GW-02
Sampling Plan	YBAEEL/SP/March/12/2025	Sampling Method	IS -17614 (Part-1):2021		
Sampling Location	Hariharpur Village	Sampling Source	Ground Water		
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity	3000 ml		
Meteorological Cond. of Field	W.C.- Clear	RH % - 49	Temp. - 32°C		
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

SI	Parameter	Test Method	Units	Results	Baseline Ground Water Quality	Permissible Limit (as per IS 10500 Specification)
18.	Cyanide(as CN ⁻)	IS 3025 (P-27/Sec1):2021 (Titrimetric Method)	mg/l	BDL (MDL 1.0)	--	0.05-No relaxation
19.	Arsenic (as As)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.003)	<0.01	0.01-No relaxation
20.	Copper (as Cu)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.01)	<0.01	0.05-1.5
21.	Iron (as Fe)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.63	0.13-0.90	1.0-No relaxation
22.	Lead (as Pb)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	<0.01	0.01-No relaxation
23.	Selenium (as Se)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.01)	--	0.01-No relaxation
24.	Zinc (as Zn)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.11	0.31-0.47	5-15
25.	Cadmium (as Cd)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	<0.01	0.003-No relaxation
26.	Mercury (as Hg)	APHA 3112 B 24 th edition 2023 (Cold Vapour AAS Method)	mg/l	BDL (MDL 0.003)	<0.001	0.001-No relaxation
27.	Chromium (as Cr)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.02	<0.01	0.05-No relaxation
28.	Nickel (as Ni)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--	0.02-No relaxation
29.	Cobalt (Co)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.03)	--	--
30.	Aluminium (as Al)	IS 3025 (P-55):2003, RA 2019 (Eriochrome Cyanine R Method)	mg/l	BDL (MDL 0.02)	--	0.03-0.2

Limit is specified as	IS 10500:2012, RA 2018.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO.. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Prepared By – Sweta Kumari (Lab Analyst)

Sanjeev Kumar Singh
21/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Chemical Section
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Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

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Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-GW-01
Sampling Plan	YBAEEL/SP/March/12/2025	Sampling Method		IS -17614 (Part-1):2021	
Sampling Location	Srirampur Village	Sampling Source		Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity		3000 ml	
Meteorological Cond. of Field	W.C.- Clear	RH % - 50		Temp. - 32°C	
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Baseline Ground Water Quality	Permissible Limit (as per IS 10500 Specification)
1.	pH value	IS 3025 (P-11):2022 (Electrometric Method)	pH	6.88 at 25.7°C	6.9-7.4	6.5-8.5
2.	Taste	IS 3025 (P-07 & 08):2017&2023	--	Agree.	Agreeable	Agreeable
3.	Odour	IS 3025 (P-05):2018	--	Agree.	Unobjectionable	Agreeable
4.	Colour	IS 3025 (P-04):2021 (Visual Comparison Method)	Hazen	<5	<5	5-15
5.	Conductivity	IS 3025 (P-14):2013, RA 2019	µs/cm	762.0 at 25.6°C	--	--
6.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):1986, RA 2019 (Indicator Method)	mg/l	210.0	147-269	200-600
7.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009, RA 2019 (EDTA Method)	mg/l	318.0	128-308	200-600
8.	Total dissolved solids	IS 3025 (P-16):2023 (Gravimetric Method)	mg/l	494.0	251-538	500-2000
9.	Chlorine Residual	IS 3025 (P-26):2021 (Iodometric Method)	mg/l	BDL (MDL 0.07)	<0.05	0.2-1
10.	Chloride (as Cl)	IS 3025 (P-32):1988, RA 2019 (Argentometric Method)	mg/l	48.51	42-74	250-1000
11.	Fluoride (as F ⁻)	APHA 4500 F-C 24 th edition 2023 (Ion Selective Electrode Method)	mg/l	0.15	0.31-0.50	1.0-1.5
12.	Nitrate (as NO ₃ ⁻ N)	APHA 4500 NO ₃ ⁻ (B) 24 th edition 2023 (UV Screening Method)	mg/l	1.72	03-24	45-No relaxation
13.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24-Sec 1):2022 (Turbidity Method)	mg/l	40.9	06-28	200-400
14.	Calcium (as Ca)	IS 3025 (P-40): 1991, RA 2019 (EDTA Titrimetric Method)	mg/l	61.72	41-99	75-200
15.	Magnesium (as Mg)	APHA 3500 Mg B 24 th edition 2023	mg/l	39.78	--	30-100
16.	Sodium (as Na ⁺)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	42.0	--	--
17.	Potassium (as K ⁺)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	1.0	--	--

Prepared By - Sweta Kumari (Lab Analyst)

Sanjeev Kumar Singh
31/03/25
Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
ISO 45001:2018



YUGANTAR BHARATI

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ISO 9001:2015 & ISO 45001:2018



State Pollution
Control Board

Test Report

Baseline Ground Water Quality Report

Discipline	Chemical	Group	Water	Sample Description	Ground Water
Report Release Date		31 st March, 2025		Type of Industry (If any)	Thermal Power Plant
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.			
Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-GW-01
Sampling Plan	YBAEEL/SP/March/12/2025	Sampling Method		IS -17614 (Part-1):2021	
Sampling Location	Srirampur Village	Sampling Source		Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity		3000 ml	
Meteorological Cond. of Field	W.C.- Clear	RH % - 50		Temp. - 32°C	
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

Sl	Parameter	Test Method	Units	Results	Baseline Ground Water Quality	Permissible Limit (as per IS 10500 Specification)
18.	Cyanide(as CN ⁻)	IS 3025 (P-27/Sec1):2021 (Titrimetric Method)	mg/l	BDL (MDL 1.0)	--	0.05-No relaxation
19.	Arsenic (as As)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.003)	<0.01	0.01-No relaxation
20.	Copper (as Cu)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.01)	<0.01	0.05-1.5
21.	Iron (as Fe)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.84	0.13-0.90	1.0-No relaxation
22.	Lead (as Pb)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.005	<0.01	0.01-No relaxation
23.	Selenium (as Se)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.01)	--	0.01-No relaxation
24.	Zinc (as Zn)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.63	0.31-0.47	5-15
25.	Cadmium (as Cd)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	<0.01	0.003-No relaxation
26.	Mercury (as Hg)	APHA 3112 B 24 th edition 2023 (Cold Vapour AAS Method)	mg/l	BDL (MDL 0.003)	<0.001	0.001-No relaxation
27.	Chromium (as Cr)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	<0.01	0.05-No relaxation
28.	Nickel (as Ni)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.005	--	0.02-No relaxation
29.	Cobalt (Co)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.03)	--	--
30.	Aluminium (as Al)	IS 3025 (P-55):2003, RA 2019 (Eriochrome Cyanine R Method)	mg/l	BDL (MDL 0.02)	--	0.03-0.2

Limit is specified as	IS 10500:2012, RA 2018.
Abbreviation	MDL - Minimum detection limit, BDL - Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law This report cannot be reproduced, except when in full, without the written permission of the CEO.. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Prepared By – Sweta Kumari (Lab Analyst)

Sanjeev Kumar Singh
31/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
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Piezometer At Plant premises





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NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	6	4	2	F
Discipline	Chemical	Group	Water		Sample Description				Surface Water										
Report Release Date		31 st March, 2025				Report ID				YBAEEL-2503-12									
W. Order / JSPCB App. No.		3030007508				Work Order Date				07.03.2025									
Type of Industry(If any)		Thermal Power Plant				Job code/ Ref. no.				YBAEEL/C/W/March – 25/04									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																	
Sampling Date		13/03/2025	Mode of sample collection			By YBAEEL Team				Sample Code		250313-SW-01							
Sampling Plan		YBAEEL/SP/March/12/2025				Sampling Method				IS -17614 (Part-1):2021									
Sampling Location		Srirampur Pond				Sampling Source				Surface Water									
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear				RH % - 50				Temp.–32°C									
Sample receipt Date		13/03/2025	Analysis Started on			13/03/2025			Analysis completed on			31/03/2025							

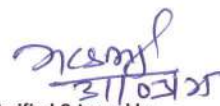
*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2022 (Electrometric Method)	pH	7.42 at 25.6°C	6.5-8.5
2.	Odour	IS 3025 (P-05):2018	--	Agree.	--
3.	Conductivity	IS 3025 (P-14):2013, RA 2019	µs/cm	917.0 at 25.7°C	--
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):1986, RA 2019 (Indicator Method)	mg/l	245.0	--
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009, RA 2019 (EDTA Method)	mg/l	409.5	--
6.	Total solids	IS 3025 (P-15):1984, RA 2019 (Gravimetric Method)	mg/l	632.0	--
7.	Total suspended solids	IS 3025 (P-17):2022 (Gravimetric Method)	mg/l	26.0	--
8.	Oxygen (dissolved)	IS 3025 (P-38):1989, RA 2019 (Titrimetric Method)	mg/l	6.6	4
9.	Chloride (as Cl)	IS 3025 (P-32):1988, RA 2019 (Argentometric Method)	mg/l	162.78	--
10.	Fluoride (as F)	APHA 4500 F-C 24 th edition 2023 (Ion Selective Electrode Method)	mg/l	0.19	--
11.	Nitrate (as NO ₃ - N)	APHA 4500 NO ₃ - (B) 24 th edition 2023 (UV Screening Method)	mg/l	1.56	--
12.	BOD	IS 3025 (P-44):1993, RA 2019 (Oxygen Depletion Method)	mg/l	2.8	3
13.	COD	IS 3025 (P-58):2006, RA 2022	mg/l	20.0	--
14.	Oil and grease	IS 3025 (P-39):2021 (Partition Gravimetric Method)	mg/l	3.6	--
15.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24-Sec 1):2022 (Turbidity Method)	mg/l	97.1	--
16.	Calcium (as Ca)	IS 3025 (P-40): 1991, RA 2019 (EDTA Titrimetric Method)	mg/l	89.77	--
17.	Magnesium (as Mg)	APHA 3500 Mg B 24 th edition 2023	mg/l	44.5	--
18.	Sodium (as Na ⁺)	IS 3025 (P-45), Flame Emission Photometric Method.	mg/l	22.0	--
19.	Potassium (as K ⁺)	IS 3025 (P-45), Flame Emission Photometric Method.	mg/l	4.0	--
20.	Ammoniacal Nitrogen	IS 3025 (P-34):1998, RA 2019 (Titrimetric Method)	mg/l	0.16	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO.. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)

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


Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
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Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



State Pollution
Control Board

Test Report

Discipline	Chemical	Group	Water	Sample Description	Surface Water
Report Release Date	31 st March, 2025			Report ID	YBAEEL-2503-12
W. Order / JSPCB App. No.	3030007508			Work Order Date	07.03.2025
Type of Industry (If any)	Thermal Power Plant			Job code/ Ref. no.	YBAEEL/C/W/March - 25/04
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.				
Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-SW-01
Sampling Plan	YBAEEL/SP/March/12/2025			Sampling Method	IS -17614 (Part-1):2021
Sampling Location	Srirampur Pond			Sampling Source	Surface Water
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml
Meteorological Cond. of Field	W.C.- Clear			RH % - 50	Temp.-32°C
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

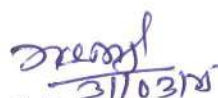
*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Cyanide(as CN ⁻)	IS 3025 (P-27/Sec1):2021 (Titrimetric Method)	mg/l	BDL (MDL 1.0)	--
2.	Phenols (C ₆ H ₅ OH)	IS 3025 (P-43/Sec1):2022 (4-Aminoantipyrine Method)	mg/l	BDL (MDL 0.001)	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO.. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	*****

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)

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


31/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in





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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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Registered by : Jharkhand State Pollution Control Board (JSPCB)
Certified by : ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	0	6	4	3	F
Discipline	Chemical	Group	Residue & Contaminants in Water							Sample Description					Surface Water					
Report Release Date		31 st March, 2025							Report ID					YBAEEL-2503-12						
W. Order / JSPCB App. No.		3030007508							Work Order Date					07.03.2025						
Type of Industry(If any)		Thermal Power Plant							Job code/ Ref. no.					YBAEEL/C/R/March – 25/03						
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																		
Sampling Date		13/03/2025	Mode of sample collection					By YBAEEL Team					Sample Code		250313-SW-01					
Sampling Plan		YBAEEL/SP/March/12/2025							Sampling Method					IS -17614 (Part-1):2021						
Sampling Location		Srirampur Pond							Sampling Source					Surface Water						
Sample pkg. Condition		Sealed Pack in PP Bottle							Sample Quantity					1000 ml						
Meteorological Cond. of Field		W.C.– Clear							RH % - 50					Temp.–32°C						
Sample receipt Date		13/03/2025	Analysis Started on					13/03/2025			Analysis completed on				31/03/2025					

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Arsenic (as As)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.003)	--
2.	Copper (as Cu)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.01)	--
3.	Iron (as Fe)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.72	--
4.	Lead (as Pb)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.21	--
5.	Selenium (as Se)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.01)	--
6.	Zinc (as Zn)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.06	--
7.	Cadmium (as Cd)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--
8.	Mercury (as Hg)	APHA 3112 B 24 th edition 2023 (Cold Vapour AAS Method)	mg/l	BDL (MDL 0.003)	--
9.	Chromium (as Cr)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--
10.	Nickel (as Ni)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--
11.	Cobalt (Co)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.03)	--

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO..
	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
Remarks	All disputes are subjected to the Ranchi Jurisdiction.

Sample Drawn By – Angad Munda
Tested By – Sweta Kumari (Lab Analyst)


31/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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



ISO 9001:2015
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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



State Pollution
Control Board

Test Report

Discipline	Chemical	Group	Residue & Contaminants in Water	Sample Description	Surface Water
Report Release Date		31 st March, 2025		Report ID	YBAEEL-2503-12
W. Order / JSPCB App. No.		3030007508		Work Order Date	07.03.2025
Type of Industry (If any)		Thermal Power Plant		Job code/ Ref. no.	YBAEEL/C/R/March - 25/03
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.			
Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-SW-01
Sampling Plan	YBAEEL/SP/March/12/2025		Sampling Method	IS -17614 (Part-1):2021	
Sampling Location	Srirampur Pond		Sampling Source	Surface Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	1000 ml	
Meteorological Cond. of Field	W.C.- Clear		RH % - 50	Temp.-32°C	
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

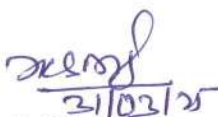
*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Aluminium (as Al)	IS 3025 (P-55):2003, RA 2019 (Eriochrome Cyanine R Method)	mg/l	BDL (MDL 0.02)	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
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	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
Remarks	All disputes are subjected to the Ranchi Jurisdiction.

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)

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


31/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur
Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
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Registered by : Jharkhand State Pollution Control Board (JSPCB)
Certified by : ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	4	9	8	F
Discipline	Biological	Group	Water			Sample Description				Surface Water									
Report Release Date		20 th March, 2025					Report ID				YBAEEL-2503-12								
W. Order / JSPCB App. No.		3030007508					Work Order Date				07.03.2025								
Type of Industry(If any)		Thermal Power Plant					Job code/ Ref. no.				YBAEEL/M/W/March - 25/04								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																	
Sampling Date		13/03/2025	Mode of sample collection				By YBAEEL Team				Sample Code		250313-SW-01						
Sampling Plan		YBAEEL/SP/March/12/2025					Sampling Method				ISO – 19458								
Sampling Location		Srirampur Pond					Sampling Source				Surface Water								
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				250 ml								
Meteorological Cond. of Field		W.C.– Clear					RH % - 50				Temp. – 32°C								
Sample receipt Date		13/03/2025	Analysis Started on			17/03/2025			Analysis completed on			20/03/2025							

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 24 th Edition 2023 (Multiple Tube Fermentation Technique)	MPN/100 ml	920	--
2.	Fecal coliform	APHA 9221E 24 th Edition 2023 (Thermotolerant Coliform Test)	MPN/100 ml	920	2500
3.	E coli	APHA 9221-F 24 th Edition 2023 (Escherichia Coli Procedure using Flourogenic Substrate)	MPN/100 ml	920	--

Limit is specified as	G.S.R. 742 (E) 25 th September, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

Sample Drawn By - Angad Munda
Tested By - Madhuri Sinha (Lab Analyst)

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

Mukesh Kumar
20-3-2025

Verified & Issued by
(Mukesh Kumar)
Authorized Signatory

Authorized Signatory
Microbiological Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	0	6	4	4	F	
Discipline	Chemical	Group	Water			Sample Description				Surface Water											
Report Release Date		31 st March, 2025					Report ID				YBAEEL-2503-12										
W. Order / JSPCB App. No.		3030007508					Work Order Date				07.03.2025										
Type of Industry(If any)		Thermal Power Plant					Job code/ Ref. no.				YBAEEL/C/W/March – 25/04										
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																			
Sampling Date		13/03/2025	Mode of sample collection				By YBAEEL Team				Sample Code		250313-SW-02								
Sampling Plan		YBAEEL/SP/March/12/2025					Sampling Method				IS -17614 (Part-1):2021										
Sampling Location		Padampur Pond					Sampling Source				Surface Water										
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				3000 ml										
Meteorological Cond. of Field		W.C.– Clear					RH % - 49				Temp.–32°C										
Sample receipt Date		13/03/2025	Analysis Started on				13/03/2025			Analysis completed on				31/03/2025							

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2022 (Electrometric Method)	pH	7.57 at 25.7°C	6.5-8.5
2.	Odour	IS 3025 (P-05):2018	--	Agree.	--
3.	Conductivity	IS 3025 (P-14):2013, RA 2019	µs/cm	912.0 at 25.6°C	--
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):1986, RA 2019 (Indicator Method)	mg/l	195.0	--
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009, RA 2019 (EDTA Method)	mg/l	237.3	--
6.	Total solids	IS 3025 (P-15):1984, RA 2019 (Gravimetric Method)	mg/l	588.0	--
7.	Total suspended solids	IS 3025 (P-17):2022 (Gravimetric Method)	mg/l	14.0	--
8.	Oxygen (dissolved)	IS 3025 (P-38):1989, RA 2019 (Titrimetric Method)	mg/l	6.8	4
9.	Chloride (as Cl)	IS 3025 (P-32):1988, RA 2019 (Argentometric Method)	mg/l	204.18	--
10.	Fluoride (as F ⁻)	APHA 4500 F-C 24 th edition 2023 (Ion Selective Electrode Method)	mg/l	0.15	--
11.	Nitrate (as NO ₃ - N)	APHA 4500 NO ₃ - (B) 24 th edition 2023 (UV Screening Method)	mg/l	1.67	--
12.	BOD	IS 3025 (P-44):1993, RA 2019 (Oxygen Depletion Method)	mg/l	2.4	3
13.	COD	IS 3025 (P-58):2006, RA 2022	mg/l	20.0	--
14.	Oil and grease	IS 3025 (P-39):2021 (Partition Gravimetric Method)	mg/l	3.2	--
15.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24-Sec 1):2022 (Turbidity Method)	mg/l	29.33	--
16.	Calcium (as Ca)	IS 3025 (P-40): 1991, RA 2019 (EDTA Titrimetric Method)	mg/l	82.18	--
17.	Magnesium (as Mg)	APHA 3500 Mg B 24 th edition 2023	mg/l	7.73	--
18.	Sodium (as Na ⁺)	IS 3025 (P-45), Flame Emission Photometric Method.	mg/l	31.0	--
19.	Potassium (as K ⁺)	IS 3025 (P-45), Flame Emission Photometric Method.	mg/l	2.0	--
20.	Ammoniacal Nitrogen	IS 3025 (P-34):1998, RA 2019 (Titrimetric Method)	mg/l	0.12	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand

Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
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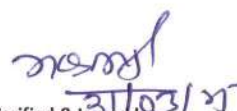
**Test Report**

Discipline	Chemical	Group	Water	Sample Description	Surface Water
Report Release Date	31 st March, 2025			Report ID	YBAEEL-2503-12
W. Order / JSPCB App. No.	3030007508			Work Order Date	07.03.2025
Type of Industry (If any)	Thermal Power Plant			Job code/ Ref. no.	YBAEEL/C/W/March - 25/04
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.				
Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-SW-02
Sampling Plan	YBAEEL/SP/March/12/2025			Sampling Method	IS -17614 (Part-1):2021
Sampling Location	Padampur Pond			Sampling Source	Surface Water
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml
Meteorological Cond. of Field	W.C.- Clear			RH % - 49	Temp.-32°C
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

*******Test Results*******

Sl	Parameter	Test Method	Units	Results	Limits
1.	Cyanide(as CN ⁻)	IS 3025 (P-27/Sec1):2021 (Titrimetric Method)	mg/l	BDL (MDL 1.0)	--
2.	Phenols (C ₆ H ₅ OH)	IS 3025 (P-43/Sec1):2022 (4-Aminoantipyrine Method)	mg/l	BDL (MDL 0.001)	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO.. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	*****

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)*******End of Report*******
Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by : NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Registered by : Jharkhand State Pollution Control Board (JSPCB)
Certified by : ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

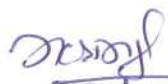
ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	0	6	4	5	F
Discipline	Chemical	Group	Residue & Contaminants in Water							Sample Description					Surface Water					
Report Release Date		31 st March, 2025								Report ID					YBAEEL-2503-12					
W. Order / JSPCB App. No.		3030007508								Work Order Date					07.03.2025					
Type of Industry(If any)		Thermal Power Plant								Job code/ Ref. no.					YBAEEL/C/R/March – 25/03					
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																		
Sampling Date		13/03/2025	Mode of sample collection					By YBAEEL Team					Sample Code		250313-SW-02					
Sampling Plan		YBAEEL/SP/March/12/2025							Sampling Method					IS -17614 (Part-1):2021						
Sampling Location		Padampur Pond							Sampling Source					Surface Water						
Sample pkg. Condition		Sealed Pack in PP Bottle							Sample Quantity					1000 ml						
Meteorological Cond. of Field		W.C.– Clear							RH % - 49					Temp.–32°C						
Sample receipt Date		13/03/2025	Analysis Started on					13/03/2025			Analysis completed on				31/03/2025					

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Arsenic (as As)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.003)	--
2.	Copper (as Cu)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.01)	--
3.	Iron (as Fe)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	1.39	--
4.	Lead (as Pb)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.16	--
5.	Selenium (as Se)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.01)	--
6.	Zinc (as Zn)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.1)	--
7.	Cadmium (as Cd)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--
8.	Mercury (as Hg)	APHA 3112 B 24 th edition 2023 (Cold Vapour AAS Method)	mg/l	BDL (MDL 0.003)	--
9.	Chromium (as Cr)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--
10.	Nickel (as Ni)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--
11.	Cobalt (Co)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.03)	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO.. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)


21/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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



ISO 9001:2015
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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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Certified by :-

Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



State Pollution
Control Board

Test Report

Discipline	Chemical	Group	Residue & Contaminants in Water	Sample Description	Surface Water
Report Release Date		31 st March, 2025		Report ID	YBAEEL-2503-12
W. Order / JSPCB App. No.		3030007508		Work Order Date	07.03.2025
Type of Industry (if any)		Thermal Power Plant		Job code/ Ref. no.	YBAEEL/C/R/March - 25/03
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.			
Sampling Date	13/03/2025	Mode of sample collection	By YBAEEL Team	Sample Code	250313-SW-02
Sampling Plan	YBAEEL/SP/March/12/2025		Sampling Method	IS -17614 (Part-1):2021	
Sampling Location	Padampur Pond		Sampling Source	Surface Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	1000 ml	
Meteorological Cond. of Field	W.C.- Clear		RH % - 49	Temp.-32°C	
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

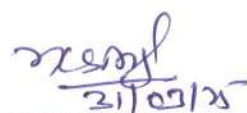
*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Aluminium (as Al)	IS 3025 (P-55):2003, RA 2019 (Eriochrome Cyanine R Method)	mg/l	BDL (MDL 0.02)	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO.. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)

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


Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)
Authorized Signatory
Chemical Section
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Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

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TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	4	9	9	F
Discipline	Biological	Group	Water					Sample Description					Surface Water						
Report Release Date		20 th March, 2025						Report ID					YBAEEL-2503-12						
W. Order / JSPCB App. No.		3030007508						Work Order Date					07.03.2025						
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/M/W/March - 25/04						
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																	
Sampling Date		13/03/2025	Mode of sample collection					By YBAEEL Team					Sample Code		250313-SW-02				
Sampling Plan		YBAEEL/SP/March/12/2025						Sampling Method					ISO – 19458						
Sampling Location		Padampur Pond						Sampling Source					Surface Water						
Sample pkg. Condition		Sealed Pack in PP Bottle						Sample Quantity					250 ml						
Meteorological Cond. of Field		W.C.– Clear						RH % - 49					Temp. – 32°C						
Sample receipt Date		13/03/2025	Analysis Started on				17/03/2025				Analysis completed on				20/03/2025				

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 24 th Edition 2023 (Multiple Tube Fermentation Technique)	MPN/100 ml	1600	--
2.	Fecal coliform	APHA 9221E 24 th Edition 2023 (Thermotolerant Coliform Test)	MPN/100 ml	920	2500
3.	E coli	APHA 9221-F 24 th Edition 2023 (Escherichia Coli Procedure using Fluorogenic Substrate)	MPN/100 ml	920	--

Limit is specified as	G.S.R. 742 (E) 25 th September, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO.
	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
Remarks	All disputes are subjected to the Ranchi Jurisdiction.
	Sample complies with prescribed limit.

Sample Drawn By - Angad Munda
Tested By - Madhuri Sinha (Lab Analyst)

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

Mukesh Kumar
20-3-2025

Verified & Issued by
(Mukesh Kumar)

Authorized Signatory

Authorized Signatory
Microbiological Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
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TC-12989

Test Report

URL(Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	5	8	3	F	
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Stationary Source Emission						
Report Release Date		29 th March, 2025						Report ID					YBAEEL-2503-12						
W. Order / JSPCB App. No.		3030007508						Work Order Date					07.03.2025						
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/C/A/March - 25/14						
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																	
Sampling Period		13/03/2025						Mode of sample collection							By YBAEEL Team				
Sampling Plan		YBAEEL/SP/March/12/2025						Sampling Method				IS: 11255 & CPCB Guideline (Lats/80/2013-14)							
Meteorological Cond. of Field		W.C.– Clear						RH % - 50							Temp. - 34°C				
Sample receipt Date		13/03/2025		Analysis Started on			13/03/2025			Analysis completed on				29/03/2025					

General Information

As observed while sampling		As reported by customer	
Location	Sampling port hole	Type of fuel Used	Coal
Platform	Permanent	Quantity of Fuel Used (During Sampling)	168 Ton/Hr.
Stack Description (Shape & Material)	Circular / RCC	Total production Capacity	270 MW (267 MW During Sampling)
Sampling port	Available	Height of Stack from ground level	275 mtr.
Stack Identification	Unit - II	Inner Diameter of Stack	4.2 mtr.
Height of port hole from Ground level	90 mtr.	Pollution Controlling Device (if any)	ESP
Running Oven during sampling (if any)	N/A	Total No. of Oven (if any)	N/A
Stack gas Temperature (k)	387.0		
Stack gas Velocity (m/s)	24.84		
Volumetric Flow Rate (Nm³/hr)	906030.4		

Emission Rate based on Calculation of Volumetric Flow rate

1.	Particulate Matter (PM)	Kg/hr	32.2
2.	Sulphure Dioxide (SO ₂)	Kg/hr	917.4
3.	Oxide of Nitrogen (as NO _x)	Kg/hr	351.7

*****Test Results *****

Sl	Parameters	Test Method	Units	Results	Limits
1.	Particulate Matter (PM)	IS 11255 (Part 1)2009, RA 2019	mg/Nm ³	35.60	50
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009, RA 2019	mg/Nm ³	1012.60	600
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005, RA 2022	mg/Nm ³	388.2	450
4.	Carbon Monoxide (CO)	IS 13270:1992:2009, RA 2019	%	BDL (MDL 0.2)	--

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the report unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit, except SO ₂ .

Sample Drawn By - Angad Munda
Tested By - Akash Khalkho (Lab Analyst)


Verified & Issued by

Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Registered by :- Jharkhand State Pollution Control Board (JSPCB)
Certified by :- ISO 9001:2015 & ISO 45001:2018



Test Report

Discipline	Chemical	Group	Atmospheric Pollution	Sample Description	Stationary Source Emission
Report Release Date	29 th March, 2025			Report ID	YBAEEL-2503-12
W. Order / JSPCB App. No.	3030007508			Work Order Date	07.03.2025
Type of Industry (if any)	Thermal Power Plant			Job code/ Ref. no.	YBAEEL/C/A/March - 25/14
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.				
Sampling Period	13/03/2025		Mode of sample collection		By YBAEEL Team
Sampling Plan	YBAEEL/SP/March/12/2025		Sampling Method	IS: 11255 & CPCB Guideline (Lats/80/2013-14)	
Meteorological Cond. of Field	W.C.- Clear		RH % - 50		Temp. - 34°C
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	29/03/2025

General Information

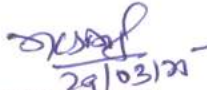
As observed while sampling		As reported by customer	
Location	Sampling port hole	Type of fuel Used	Coal
Platform	Permanent	Quantity of Fuel Used (During Sampling)	168 Ton/Hr.
Stack Description (Shape & Material)	Circular / RCC	Total production Capacity	270 MW (267 MW During Sampling)
Sampling port	Available	Height of Stack from ground level	275 mtr.
Stack Identification	Unit - II	Inner Diameter of Stack	4.2 mtr.
Height of port hole from Ground level	90 mtr.	Pollution Controlling Device (if any)	ESP
Running Oven during sampling (if any)	N/A	Total No. of Oven (if any)	N/A
Stack gas Temperature (K)	387.0		
Stack gas Velocity (m/s)	24.84		
Volumetric Flow Rate (Nm ³ /hr)	906030.4		

*****Test Results*****

Sl	Parameters	Test Method	Units	Results	Limits
1.	Mercury (as Hg)	Lat's/80/2013-14	mg/Nm ³	BDL (MDL 0.003)	0.03

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL - Minimum detection limit, BDL - Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the report unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

Sample Drawn By - Angad Munda
Tested By - Akash Khalkho (Lab Analyst)


29/03/25
Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in





ADHUNIK POWER & NATURAL RESOURCES LIMITED

WORKS : Village - Padampur, Behind P.G.C.I.L. Substation,
Adityapur - Kandra Road, Saraikela - Kharsawan, PIN - 832402 Jharkhand
Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC102935

Ref No APNRL/MOEF/FA/2024-25/210425

Date: 21st April 2025

To

The Regional Office (Eastern-Central Zone)
Ministry of Environment, Forest & Climate Change
2nd Floor, Jharkhand State Housing Board (HQ)
Harmu Chowk, Ranchi, Jharkhand-834002

Sub- Submission of Ash generation & Utilization for Unit I & Unit II (1 x 270 MW each) of
M/s Adhunik Power & Natural Resources Limited, Village- Padampur, Dist-Saraikela-
Kharswan, Jharkhand.

Ref: MoEF Fly Ash notification S.O. 5481(E) dated 31.12.2021.

Dear Sir,

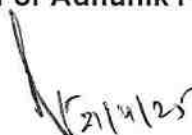
In line with compliance of above referred MoEF Fly Ash latest Notification S.O. 5481(E) dated 31.12.2021, Please find attached herewith Ash generation & Utilization for Unit I & Unit II (2 x 270 MW each) with addendum of M/s Adhunik Power & Natural Resources Limited, Village-Padampur, Dist-Saraikela-Kharswan, Jharkhand for the financial year 2024-25.

This is for your kind information & record please.

Thanking You

Your's faithfully

For Adhunik Power & Natural resources Limited


Mukti Nath Singh
Head (O & M)

Encl: As mentioned above

1. Scientist D, PCI-II, Central Pollution Control Board, New Delhi.
2. Member Secretary, JSPCB, Ranchi.
3. Chief Engineer (TCD), CEA, New Delhi.
4. The Regional Officer, JSPCB, Jamshedpur.

CORPORATE OFFICE : "LANDSDOWNE TOWER", 2/1A, Sarat Bose Road, Kolkata - 700 020

Ph : +91 - 33 - 30517100 / 7200 / 7300 • Fax : +91 - 33 - 22890285

REGD. OFFICE : 14, N. S. Road, 2nd Floor, Kolkata - 700 001, Phone No. +91 - 33 - 22428551, 22428553

Website : www.adhunikpower.com

Adhunik Power & Natural Resources Ltd

Ash Compliance Report (for the period 1st April 2024-31st March 2025)

Sl No	Details	Compliance Status As on 31.03.2025
1	Name of Power Plant	Adhunik Power & Natural Resources Ltd
2	Name of the company	Adhunik Power & Natural Resources Ltd
3	District	Sariekela-Kharswan
4	State	Jharkhand
5	Postal address for communication:	Vill- Padampur, Adityapur Kandra Road, Near P.G.C.I.L Sub Station, Post-Kandra
6	E-mail:	kamleshkriha@adhunikpower.co.in
7	Power Plant installed capacity (MW):	2 x 270 MWH = 540 MWH
8	Plant Load Factor (PLF):	82.15%
9	No. of units generated (MWh):	3886067.84.
10	Total area under power plant (ha): (including area under ash ponds)	178.684
11	Quantity of coal consumption during reporting period (Metric Tons per Annum):	2813289.38
12	Average ash content in percentage (per cent):	40.87
13	Quantity of current ash generation during reporting period (Metric Tons per Annum):	1149680.45
	Fly ash (Metric Tons per Annum):	934788.21
	Bottom ash (Metric Tons per Annum):	214892.24
14	Capacity of dry fly ash storage silo(s) (Metric Tons) :	2 x 2200 MT
15	Details of utilisation of current ash generated during reporting period	
	(a) Total quantity of current ash utilised (MTPA) during reporting period:	939803.26
	(b) Quantity of fly ash utilised (MTPA):	787978.45
	(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels)	145986.16
	(ii) Cement manufacturing:	493731.00
	(iii) Ready mix concrete:	106437.00
	(iv) Ash and Geo-polymer based construction material:	0.00
	(v) Manufacturing of sintered or cold bonded ash aggregate:	0.00
	(vi) Construction of roads, road and fly over embankment:	0.00
	(vii) Construction of dams:	0.00
	(viii) Filling up of low lying area:	1890.10
	(ix) Filling of mine voids:	0.00
	(x) Use in overburden dumps:	0.00
	(xi) Agriculture:	0.00
	(xii) Construction of shoreline protection structures in coastal districts;	0.00
	(xiii) Export of ash to other countries:	39901.02
	(xiv) Others (please specify):	0.00
	(c) Quantity of bottom ash utilised (MTPA):	151824.80

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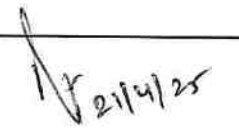
✓

	(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	9422.24	
	(ii) Cement manufacturing:	28057.33	
	(iii) Ready mix concrete:	0.00	
	(iv) Ash and Geo-polymer based construction material:	0.00	
	(v) Manufacturing of sintered or cold bonded ash aggregate:	0.00	
	(vi) Construction of roads, road and flyover embankment:	0.00	
	(vii) Construction of dams:	0.00	
	(viii) Filling up of low lying area:	114345.33	
	(ix) Filling of mine voids:	0.00	
	(x) Use in overburden dumps:	0.00	
	(xi) Agriculture:	0.00	
	(xii) Construction of shoreline protection structures in coastal districts:	0.00	
	(xiii) Export of ash to other countries:	0.00	
	(xiv) Others (please specify):	0.00	
	Total quantity of current ash unutilised (MTPA) during reporting period:	188698.30	
16	Percentage utilisation of current ash generated during reporting period (percent):	81.74	
	Details of disposal of ash in ash ponds		
	(a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period):	0.00	
	(b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons):	188698.30	
17	(c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m3):	826505.66	
	(d) Total number of ash ponds:	2	
	(i) Active:	2	
	(ii) Exhausted (yet to be reclaimed):	0	
	(iii) Reclaimed:	0	
	(e) total area under ash ponds (ha):	5.33	
	Individual ash pond details Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one)	Ash Pond 1	Ash Pond 2
	(a) Status: Under construction or Active or Exhausted or Reclaimed	Active	Active
18	(b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):	Jan-13	Mar-16
	(c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds)	NA	NA
	(c) area (hectares):	2.82	2.5
	(d) dyke height (m):	9	7
	(d) volume (m3):	253908	175434

	(e) quantity of ash disposed as on 31st March (Metric Tons):	183386.572	5311.731882
	(f) available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):	44.44% 146693.828 MT	97.67% 222752.47 MT
	(g) expected life of ash pond (number of years and months):	25	25
	(e) co-ordinates (Lat and Long): (please specify minimum 4 co-ordinates)	1.22°50'19.4"N 86°03'21.2"E 2.22°50'15.5"N 86°03'16.0"E 3.22°50'12.4"N 86°03'23.1"E 4.22°50'19.2"N 86°03'25.8"E	1.22°50'06.9"N 86°03'30.8"E 2.22°50'16.3"N 86°03'32.1"E 3.22°50'16.5"N 86°03'28.9"E 4.22°50'08.9"N 86°03'25.3"E
	(f) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining	HDPE Lining	HDPE Lining
	(g) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	Wet Slurry (LCSD)	Wet Slurry (LCSD)
	(h) Ratio of ash: water in slurry mix (20:80)::	01:04	01:04
	(i) Ash water recycling system (AWRS) installed and functioning: Yes or No	Yes	Yes
	(j) Quantity of waste water from ash pond discharged into land or water body (m3):	Recycled	Recycled
	(k) Last date when the dyke stability study was conducted and name of the organisation who conducted the study:	Dyke Stability Study are in process through NIT, Jamshedpur	
	(l) Last date when the audit was conducted and name of the organisation who conducted the audit:	Ash compliance audit for FY 2023-24 has been conducted through NIT, Rourkela.	
19	Quantity of legacy/Pond ash utilised (MTPA):	238769.73	
	i. Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	2749.91	
	ii. Cement manufacturing:	40905.70	
	iii. Ready mix concrete:	4884.00	
	iv. Ash and Geo-polymer based construction material:	0.00	
	v. Manufacturing of sintered or cold bonded ash aggregate:	0.00	
	vi. Construction of roads, road and flyover embankment:	0.00	
	vii. Construction of dams:	0.00	
	viii. Filling up of low lying area:	190229.42	
	ix. Filling of mine voids:		
	x. Use in overburden dumps:	0	
	xi. Agriculture:	0	
	xii. Construction of shoreline protection structures in coastal districts:	0	
	xiii. Export of ash to other countries:	0	
	xiv. Others (please specify):	0	

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20	Summary:			
	Details	Quantity generated (MTP)	Quantity utilized (MTP) and Percent	Balance quantity (MTP)
	Current ash during reporting period	1149680.449	939803.06(81.74 %)	209877.45
	Legacy ash/Pond Ash	217590.8447	238769.73 (109.73 %)	-21178.89
	Total	1367271.294	1178572.99 (102.51 %)	188698.30
21	Any other information: Soft copy of the annual compliance report, and shape files of power plant and ash ponds may be e-mailed to:- moefeccoalash@gov.in	Attached		
22	Signature of Authorised Signatory			

Note: 21178.89 MT Additional Pond ash disposed which had accumulated in ash pond for FY 2024-25.





Addendum to Annual Implementation Report (AIR) format for FY 2024-25 (01.04.2024 to 31.03.2025) onwards for submission of ash data by TPPs to concerned SPCB/PCC, CPCB, CEA, IRO-MoEF&CC in compliance to Ash Notification dated 31.12.2021 (amended on 30.12.2022 and 01.01.2024) and Ministry of Power's guidelines dated 15.03.2024

1	Name of Thermal Power Plant (Capacity in MW)	Adhunik Power & Natural Resources Ltd (2 x270 MW)
2	Total annual issuable ash - To be declared prior to start of the annual ash disposal process as per para 5(A-i) of MoP Guidelines 2024 (LMT)	15.22
3	Total ash available for utilisation (Current + Legacy) at the beginning of FY 2024-25 = Carryover of Current + Legacy ash (if available and to be used in progressive manner) from the closing stock of last FY year i.e. 2023-24 (LMT)	2.17591
4	Total ash generation during FY 2024-25 (LMT)	11.5
5	Ash quantity sold to MSE through limited auction during FY 2024-25 (LMT) [As per Para 5(B) i.e Step 1]	0.28412
6	Revenue earned during FY 2024-25 (in Rs. Crores) [As per Para 5(B) i.e Step 1]	0.14206
7	Ash quantity sold through open auction during FY 2024-25 (LMT) [As per Para 5(C-i) i.e Step 2]	0.93608
8	Revenue earned during FY 2024-25 (in Rs. Crores) [As per Para 5(C-i) i.e Step 2]	0.30573
9	Ash quantity supplied free of cost through open EOI during FY 2024-25 (LMT) [As per Para 5(C-ii) i.e Step 3]	4.20391
10	Ash quantity supplied under direct Notice free of cost and bearing its transportation cost during FY 2024-25 (LMT) [As per Para 5(C-iii) i.e Step 4]	0.00
11	Cost borne by TPP during FY 2024-25 (in Rs. Crores) [As per Para 5(C-iii) i.e Step 4]	0.00
12	Ash quantity supplied/disposed beyond Steps 1-4 by applying best business practices/financial prudence during FY 2024-25 (LMT) [As per Para 5(C-iv) i.e Step 5]	6.36262
13	Cost borne by TPP during FY 2024-25 (in Rs. Crores) [As per Para 5(C-iv) i.e Step 5]	12.21611
14 = {(3+4) - (5+7+9+10+12)}	Ash quantity remained unutilized at the end of FY 2024-25 (LMT)	1.88598

Note: Please follow the units while filling above data i.e. LMT for Ash quantity, and Crores for Revenue.

Kat

21/4/25



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Registered by :-
Certified by :-

Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



State Pollution
Control Board

Test Report

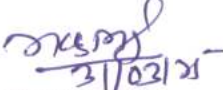
Discipline	Chemical	Group	Pollution & Environment	Sample Description		ASH
Report Release Date		31 st March, 2025		Report ID		YBAEEL-2503-12
W. Order / JSPCB App. No.		3030007508		Work Order Date		07.03.2025
Type of Industry (If any)		Thermal Power Plant		Job code/ Ref. no.		YBAEEL/C/S/March. 25/02
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Date		13/03/2025		Mode of sample collection		By YBAEEL Team
Sampling Plan		YBAEEL/SP/March/12/2025		Sample Code		250313-AS-02
Sampling Location		Hopper		Sampling Source		Bottom Ash
Sample pkg. Condition		Sealed Pack in Zipper Bag		Sample Quantity		2.5 Kg Approx.
Meteorological Cond. of Field		W.C.– Clear		RH % - 50		Temp. - 32°C
Sample receipt Date		13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	31/03/2025

*****Test Results*****

Sl	Parameter	Test Method	Units	Results
1.	Iron (as Fe)	USEPA 3050 B :1996/APHA 3111 B	ppm	36.0
2.	Zinc (as Zn)	USEPA 3050 B :1996/APHA 3111 B	ppm	0.09
3.	Copper (as Cu)	USEPA 3050 B :1996/APHA 3111 B	ppm	0.15
4.	Lead (as Pb)	USEPA 3050 B :1996/APHA 3111 B	ppm	0.05
5.	Nickel (as Ni)	USEPA 3050 B :1996/APHA 3111 B	ppm	0.04
6.	Cadmium (as Cd)	USEPA 3050 B :1996/APHA 3111 B	ppm	BDL
7.	Chromium (as Cr)	USEPA 3050 B :1996/APHA 3111 B	ppm	0.29
8.	Arsenic (as As)	USEPA 3050 B :1996/APHA 3112 B	ppm	BDL
9.	Mercury (Hg)	USEPA 3050 B :1996/APHA 3111 B	ppm	BDL (MDL 0.003)
10.	Selenium (as Se)	USEPA 3050 B :1996/APHA 3111 B	ppm	BDL (MDL 0.01)
11.	Unburn Carbon	IS 1727:1967	%	2.14

Limit is specified as	*****
Abbreviation	MDL - Minimum detection limit, BDL - Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	*****

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)


31/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Registered by :- Jharkhand State Pollution Control Board (JSPCB)
Certified by :- ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	0	6	3	7	F	
Discipline	Chemical	Group	Pollution & Environment					Sample Description					Waste Water / Effluent Water								
Report Release Date		31 st March, 2025						Report ID					YBAEEL-2503-12								
W. Order / JSPCB App. No.		3030007508						Work Order Date					07.03.2025								
Type of Industry (If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/C/PE/March-25/03								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																			
Sampling Date		13/03/2025	Mode of sample collection					By YBAEEL Team					Sample Code		250313-WW-01						
Sampling Plan		YBAEEL/SP/March/12/2025						Sampling Method					IS -17614 (Part-1):2021								
Sampling Location		Ash Pond						Sampling Source					Effluent Water								
Sample pkg. Condition		Sealed Pack in PP Bottle						Sample Quantity					3000 ml								
Meteorological Cond. of Field		W.C.– Clear						RH % - 50					Temp.–32°C								
Sample receipt Date		13/03/2025	Analysis Started on					13/03/2025		Analysis completed on					31/03/2025						

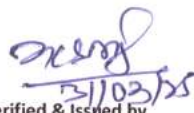
*****Test Results *****

Sl	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2022 (Electrometric Method)	pH	8.18 at 25.6°C	6.5 – 8.5
2.	Temperature	IS 3025 (P-09):2023	°C	30.6	--
3.	Total Suspended Solids	IS 3025 (P-17):2022 (Gravimetric Method)	mg/l	56.0	100
4.	Oil & Grease	IS 3025 (P-39):2021 (Partition Gravimetric Method)	mg/l	1.6	20
5.	Arsenic (as As)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.003)	--
6.	Lead (as Pb)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.18	--
7.	Mercury (as Hg)	APHA 3112 B 24 th edition 2023 (Cold Vapour AAS Method)	mg/l	BDL (MDL 0.003)	--
8.	Chloride (as Cl)	IS 3025 (P-32):1988, RA 2019 (Argentometric Method)	mg/l	42.58	--
9.	Chromium (as Cr)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	--

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO.
	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
Remarks	All disputes are subjected to the Ranchi Jurisdiction.
	Sample complies with prescribed limit.

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)

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


Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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ISO 9001:2015
ISO 45001:2018



Social performance report

April'2024-March'2025



Adhunik Power & Natural Resources Ltd.
Padampur, Kandara, Saraikela-Kharsawan

Introduction

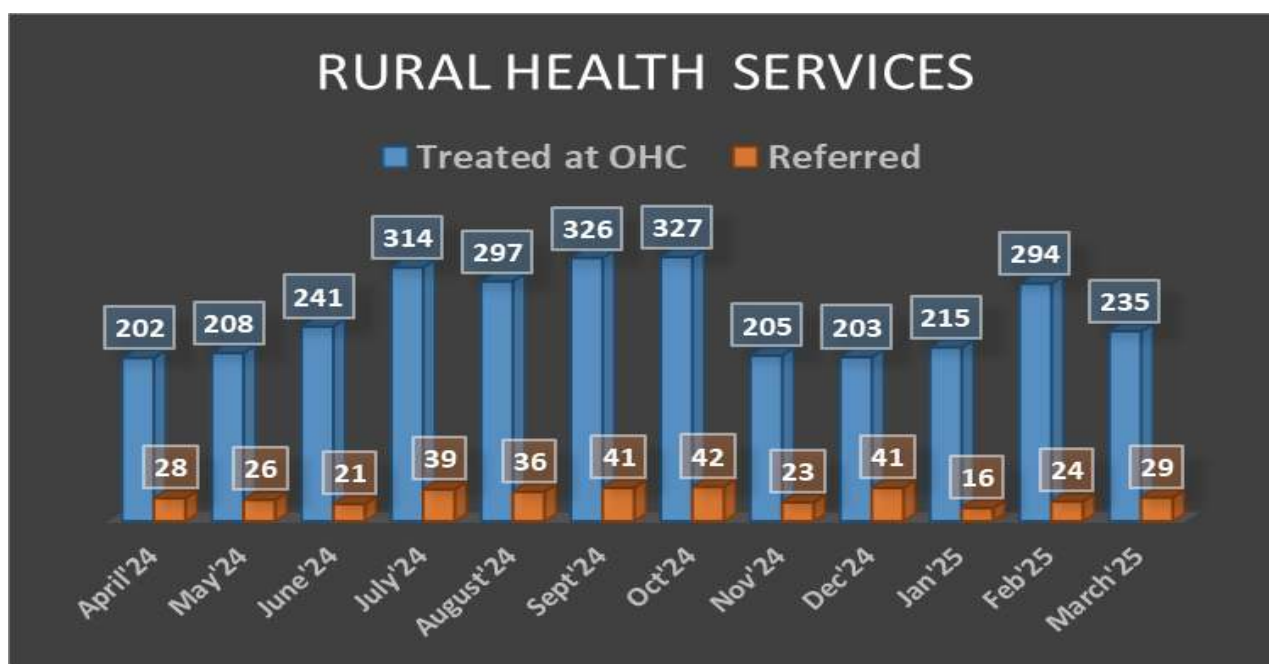
Adhunik Power & Natural Resources Limited (APNRL), Padampur has always been at the forefront of CSR. The provisions of the Companies Act, 2013 have made it imperative to institutionalize the CSR activities. The Company's corporate social responsibility ("CSR") Policy obligates the Company to undertake specific CSR projects and programs, as approved from time to time, by the Company's CSR committee. The objective of the CSR policy is to lay down the guiding principles for proper functioning of CSR activities to attain sustainable development of the society around the area of operations of the Company. The Company undertook various activities during the year under review in line with its CSR Policy and as prescribed in Schedule VII to the Companies Act, 2013. Apart from long term ongoing projects, the Company has supported and implemented projects under its CSR Policy in the field of Healthcare (including Preventive, Promotive & Curative), Promoting Education, Skill training, Social Welfare, Environment & Rural development amongst others.

A report on social performance made by Adhunik Power & Natural Resources Limited (APNRL), Padampur, as a part of corporate social responsibility, during the mentioned period is here under. It is important to note that APNRL has significantly contributed to the advancement of community development. The report on development activities, categorized by focus area, is as follows:

HEALTH & MEDICAL SERVICES

Adhunik Power & Natural Resources Limited, Padampur has always focused on community health issues and health management measures, and facilitated healthy living of individuals through its corporate social responsibility team. Following activities undertaken for community health-

- 1. Rural Health Services:** Under CSR, the company has provided free 24x7 ambulance and medical facilities to villagers of peripheral villages for better treatment. The villagers availed the facilities, month wise details are mentioned in below chart.



2. Health Awareness Program (Health talk): A health awareness camp on diseases like hypertension and diabetes was organized at Sankalp Bhawan APNRL in collaboration with Meditrina Hospital, Jamshedpur on 14.5.2024, where 50 employees participated. Dr. Shritam Acharya- MD, Meditrina Hospital took a session on high blood pressure and diabetic patients. He said that the High blood pressure (hypertension) can lead to many complications of diabetes, including diabetic eye disease and kidney disease, or make them worse. Most people with diabetes will eventually have high blood

pressure, along with other heart and circulation problems. Diabetes damages arteries and makes them targets for hardening, called atherosclerosis. That can cause high blood pressure, which if not treated, can lead to trouble including blood vessel damage, heart attack, and kidney failure. Compared to those with normal blood pressure readings, people with hypertension more often have:

1. Coronary artery or heart diseases, Strokes,
2. Peripheral vascular disease, hardening of the arteries in the legs and feet, heart failure.

Even blood pressure that's at the higher end of normal (120/80 to 129/80), called elevated, impacts your health. Studies show that you have a two to three times greater chance of getting heart disease over 10 years. Usually, high blood pressure has no symptoms. That's why you need to check your blood pressure regularly.

He gave the following suggestions for prevention -

1. Control your blood sugar.
2. Stop smoking.
3. Eat healthy.
4. Exercise most days.
5. Keep your weight within a healthy range.
6. Don't drink too much alcohol.
7. Limit how much salt you eat.
8. Visit your doctor regularly.

At the end of the session participants received information about the causes and prevention of high blood pressure & diabetes. Vote of thank given by Dr. G. P. Murmu-OHC.



3. World Anti-Tobacco Day 2024: World Anti-Tobacco Day was started because millions of people die every year around the world due to tobacco consumption and abuse. The World Health Organization (WHO) decided in 1987 that World No Tobacco Day (WNTD) would be observed on 31 May 1988. From that very day onwards we are making people aware about the consumption and misuse of tobacco. In



continuation of the same, APNRL organized **signature campaign** at plant level as well as **speech and essay** competition at village level was organized on 31st May, 2024.

The theme of the world No Tobacco day 2024 is **Protecting children from tobacco industry interference** to protect future generations and ensure that tobacco use continues to decline. More than 200 Workers/employees/Senior Officers participated in the signature campaign with great enthusiasm at Plant level. Dr. G P



Murmu informed, that according to the World Health Organization (WHO) report, 40 per cent of cancer cases registered were due to use of tobacco, while the percentage were much higher in case of mouth cancer as 90 percent cases of mouth cancer was due to chewing tobacco.

- 4. International Yoga Day 2024:** International Yoga Day is observed every year on June 21 to celebrate the physical and spiritual prowess that yoga has brought to the world. Yoga is a practice that relaxes the mind and body and plays an important role in boosting the immune system of people thereby bringing ease and peace in our lives.



The theme of this year (2024) is “Yoga for Self & Society”. The 10th edition of International Yoga Day was celebrated on 21st June 2024 at Sankalp Bhawan, APNRL. The Yoga Class inaugurated by Mr. Arun Kumar Mishra-CEO, with lighting of candles who emphasized the importance of Yoga and physical exercises in daily life. About 70 employees including contract employees participated in Yoga Class. Mr. Rajesh Sharma-VP, Mr. Shirish Waghmare-DGM, Mr. Arjun Singh, Mr. D. K. Ghoshal and others senior officers also participated with great enthusiasm. The sessions started at 7.30 am and carried out under the guidance of the yoga instructor Mr. Ashish Ranjan. Employees got the chance to know how yoga embodies unity of mind and body. This event had a very positive impact on creating awareness about the benefits of yoga in human life. The function ended with a vote of thanks by Sanjeet Kumar Sinha- CSR. The function was organised by Ranjit Singh, B.P. Giri, Vikas Kumar, Ravi Singh, Anil Sardar, Diwaker Upadhyay along with all the office staff who put in a lot of effort to make the function a success.



- 5. Food distribution program:** TB patients often leave their treatment midway due to negligence. Due to which, if the treatment is not completed, the TB virus inside the patient does not get destroyed, in such a situation other people can also get affected by coming in contact. TB patient has to keep taking medicines on time and it is also important for the person to pay special



attention to his eating habits, which develops the ability to get rid of the infection said by District Tb Officer.

Its treatment is effective and accessible and the government provides free facilities for the prevention and treatment of this disease. It is our endeavor that all of you get well soon. Our company is providing nutritious food to all of you every month said by Mr. Rajesh Sharma-VP-



Adhunik Power which will help in your eating habits.

Under the National TB Eradication Program by Adhunik Power and Natural Resources Limited, food baskets were distributed among 50 TB patients of Gamharia block through Nikshay Mitra at Community Health Center (CHC), Gamharia for six months i.e. till March 2025,

- 6. Malaria control drive and Mosquito net distribution:** Malaria is common in tropical areas where there is heat and humidity. It is a serious disease which is spread by the bite of a mosquito infected with the Plasmodium parasite. When it bites, the mosquito delivers malaria parasites into your bloodstream. In this regards a drive on Malaria was organized by APNRL from Nov' 2024 to Jan' 2025 under the health program "Jeevandayani" in which 200 women from Padampur, Srirampur, Badahariharpur,



Chotahariharpur and Bikinipur participated. During drive/training AWWs explained about the symptoms of malaria like:

fever and sweating

Chills - it can shake your whole body

Headache and muscle pain

Tiredness

Chest pain

Difficulty in breathing



Cough

Diarrhea

Nausea and vomiting

and also told about the importance and use of mosquito nets. At the end of the session mosquito nets were distributed among the participants for control of malaria by APNRL.

- 7. Eye Camp:** Eyes are one of the most important sensory organs in the human body as it provides vision and the power to see. Medical services/CSR Department-APNRL in coordination with

Sanjeevni Netralaya, Jamshedpur organized Eye Checkup Camp on 03.10.2024 at APNRL for all employee who have working in the company.

A medical team from Sanjeevani Netralaya, Jamshedpur, comprising three members, conducted an eye check-up. Approximately 72 individuals benefited from the camp, with one patient identified



for cataract surgery. Several others received referrals to general physicians for further treatment and medication. The event aimed to enhance eye health awareness and provide essential care to employees and villagers.

- 8. Health Awareness Program, AWC, Padampur:** To promote good health and healthy living, the CSR Department of APNRL organizes a Godh Bhari event every month at the village level for pregnant women who are in their seventh month of pregnancy.

Godh Bhari function organized at the Anganwadi Centre in Padampur Badahariharpur Srirampur & Bikanipur, with the support of ICDS. During this event, we provided information on topics such as diet, hygiene, vaccinations, and health check-ups and also provided items like thalis, apples, bananas, bangles, bindis, and other essentials to the pregnant women attending the Godh Bhari function.



Women were present during the ceremony and everyone blessed the pregnant woman for the good health of the mother and child during pregnancy and safe delivery.

- 9. Blood Donation Camp:** On 24th October, 2024 (Thursday), Adhunik Power & Natural Resources Limited(APNRL), Padampur, organized a volunteer blood donation camp under CSR on the occasion of the Founder's Day. A total No. of 86 volunteers had donated blood. The camp took place at the Dispensary of the APNRL. The CEO of the APNRL had invited the honourable Director, Shri Nirmal Kumar Agarwal Ji to be the chief guest of this function. The



function had started around 10.30 o'clock in the morning.

The senior employees of the APNRL too participated in the program. Apart from employees, many villagers from Padampur, Badahariharpur, Pindraber, Chhotahariharpur, Srirampur, Bikanipur, Balidih, Ghutbeda, Dhatkidih & Kandra also



participated in this camp. The village leaders Shri Rajesh Bhagat, Paga Sardar, & Shri Indra Murmu had come to the blood donation camp to motivate the villagers for this noble cause and they also donated blood. Donors who had participated in this blood donation camp were given certificates and a small gift hamper.



To monitor the entire process, six doctors from Blood Bank, Jamshedpur and a team of five volunteer from VBDA, Jamshedpur were invited as volunteers to facilitate this programme. The organizing team efficiently managed registration, screening, and the donation process, ensuring a smooth flow of activities. Medical professionals oversaw the process, emphasizing safety and

hygiene protocols. Local village Volunteers - Sonu Hansda, Salendra Tudu, Vishal Hansda, Sarswati Devi & Anil Sardar also had come to help the APNRL organizing the blood donation camp. After the completion of the blood donation, the Director thanked and appreciated everyone for their participation. The day ended with the heartfelt vote of thanks from the CSR Head of the APNRL.

- 10 Seminar, Godhbharai, Health Baby Show and Annaprasan:** CSR Department of APNRL has always been empowering the village women through various training events to lead their life with sustainable social recognition. On the occasion of World Breastfeeding Week, we organized Seminar, Godhbharai, Health Baby Show and Annaprasan at Srirampur village on 6-8-2024 to spread awareness on exclusive breastfeeding, complementary feeding, among pregnant women and lactating mothers so that they can give proper nutrition to their children. Approx. 60 women participated in the seminar along with their children.



The 4 best children who had completed 6 months of age were selected for Annaprasan and their mothers were honored for promoting complementary feeding and breastfeeding, the remaining children were also given gifts as inspiration, those who had completed 7 months of pregnancy, a Godhbharai was organized for pregnant women. Through this event pregnant women were given information on the subject of diet, hygiene, vaccination, health check-up etc. Women were blessed the pregnant woman for the good health of the mother and child during pregnancy and safe delivery. The program ended with a vote of thanks by Anganwadi Sevika - Ms. Munni Nayak.

- 11 Seminar, Godbharai and Baby show:** Malnutrition is a global problem & our area is also suffering from this



problem due to unbalanced diet and lack of knowledge. Under the social responsibilities, CSR Department, APNRL, Padampur observed National Nutritional Mah 2024 (28th September 2024) at AWC, Padampur. The main objective was to raise awareness among the villagers about the importance of health and nutrition, which has an impact on development,

productivity, economic growth, and ultimately national development. ANM, Anganwadi Sevikas, Sanjeet Kumar Sinha (CSR), and approximately 50 women with their children participated in this program. During

the program, the ANM emphasized that women should be extra careful to avoid iron deficiency and anemia by consuming iron-rich food, deworming every six months, and sleeping under an insecticide-treated mosquito net in areas where malaria is prevalent.

After the speech of the ANM, a group of village women gathered to organize a Godh bharai (baby shower) ceremony, which was blessed by the women.

3- pregnant women were selected for godhbharai, who completed 7 months of pregnancy and got all the vaccinations on time. APNRL provided items such as a thali, apple, coconut, banana, bangle, and bindi to the pregnant woman. During the function, Mr. Sanjeet Kumar Sinha, APNRL explained the



importance of safe delivery, preparation for birth, supplementary feeding, and complementary feeding, as well as the importance of vaccination. The ceremony also included prayers for the good health and safe delivery of the mother and child during pregnancy. At the end of the seminar Balhi Kisku – AWW thanked all the participants.

Water & Sanitation

- 1. Drinking Water Supply:** The drinking water provided to villagers through water tanker to meet the need of drinking water and other related water usage during their social functions. In this financial year, drinking water was provided through tankers in villages like Balidih, Barahariharpur, Srirampur, Dhatkidih, Padampur, Pindrabera, Kandra, Gamharia, Rapcha, Viradhwajpur, Ramjivanpur, Bikinipur, Marthabera, Nishchapur, Gopinathpur etc. of Dugdha Gram Panchayat, Rapcha Gram Panchayat, Dumra Gram Panchayat & Kandra Gram Panchayat, Gramharia block, Saraikela-Kharsawan

The **objectives** of supply of drinking water to the villagers were as follows:

- i. To meet the drinking need of villagers
- ii. To meet the needs of water related other usage during water scarcity situation in villages.

The detailed status of drinking water supply is as below:

S. No.	Months	No. of Villages Covered	No. of Gram Panchayat/Block	No. of Drinking Water Supply Services (trip) Provided through Tanker	Quantity of Supplied Water (in Liter)	Average Population Covered	Purpose
1	April'24	5	3	9	45000	2250	

2	May'24	10	5	22	110000	5500	To meet the drinking water needs of villagers during functions and festivals.
3	June'24	8	4	19	95000	4750	
4	July'24	3	3	4	20000	1000	
5	Aug'24	1	1	2	10000	500	
6	Sept.'24	2	2	2	10000	500	
7	Oct.'24	2	2	6	30000	1500	
8	Nov.'24	5	3	12	60000	2250	
9	Dec.'24	5	3	11	55000	2750	
10	Jan.'25	7	2	10	50000	2500	
11	Feb'25	2	1	3	10000	750	
12	Mar'25	7	3	8	40000	3500	
Total		15	5	108	53500	27750	

* The same people may have benefited again and again at different times.

10. Spraying and distribution of bleaching powder: During rainy session the health of the people in the villages around the plant is a major concern as most of the diarrhea cases were found in the previous year only



during the rainy season. The main reason for diarrhea is polluted water and unhygienic conditions around the village as well as lack of information among the people about prevention of diarrhoea.



Keeping this in mind, the CSR department of APNRL showed its solidarity by running a health awareness campaign in Bikanipur from 24.08.2024, which continued in the villages of Padampur, Srirampur, Chhotahariharpur and Bikanipur.

In continuation, bleaching powder was sprayed in drains, wells and waterlogged areas with the help of village volunteers as well as bleaching powder was also provided to the villagers to avoid various diseases caused by dirt and mosquitoes etc. This program is being run with the aim of controlling diarrhoea, malaria and water borne diseases.

EDUCATION

These can be cited as major challenges in achieving the development goals related to education in our country. In view of such facts and challenges, APNRL, Padampur launched Education Promotion Initiative as a part of Corporate Social Responsibility.

- 1. Achievement Award/ Appreciation Certificate Program:** Achievement Award/ Appreciation Certificate Distribution Program was organized by CSR Dept -APNRL on 17.5.2024 at Sankalp Bhawan- APNRL for the

rural students who have passed JAC/CBSE Board Examination 2024 in First Division. 14 students from



different villages like Shrirampur, Padampur, Bikinipur, Balidih, Chhotahariharpur along with their parents participated in this program and were also rewarded with appreciation certificates. Ms. Jova Mandal-Principal UM School, Padampur, Mr. Harendra Pathak-Principal UM School, Hariharpur and Ms. Lakshmi Murmu-Panchayat Committee Member were also present. During the program, Sri Harendra Pathak gave a motivational speech so that the children can perform well in future and contribute to the progress of the country.

Ms. Jova mandal also bless for better future. On behalf of the company, Sri Mukti Nath Singh-Head O&M, Sanjeet Kumar Sinha-CSR, Anil Sardar-Civil were present. Sri M N Singh appreciated students and motivate them for better future. Appreciation certificates were given to the passing students of the village by the honourable guests. Vote of thanks was given by Sanjeet Kumar Sinha.



2. **Essay & Speech Competition:** Essay & Speech Competition was also organized on 31.5.2024 at Community Center, Badahariharpur on the occasion of Anti-Tobacco Day where about 35 village youths from different villages participated in this program with full enthusiasm. The topics for all the competition were “युवाओं में तम्बाकू का सेवन एक विश्वव्यापी महामारी है”. Winners of Essay competition are – 1st prize to Ms. Sukhamati



Hansda , Srirampur, 2nd prize to Sishmita Mahato Badahariharpur, 3rd to Mr. Shiva Majhi, Chotahariharpur and 4th Prize given to Mr. Ghanshyam Mahato ,Badahariharpur. Speech Competition- 1st prize to Mr. Ghanshyam Mahato, 2nd to Mr. Pradeep Baskey and 3rd to Ms. Sona mani Hansda. Mr. Ambika Mahato addressed all the youth to spread awareness about this sensitive

issue also. The program was conducted by CSR-Team.

3. **Convocation, Computer center, Badahariharpur (Certificate Distribution):** The Certificate Distribution Ceremony, organized on November 16, 2024, at the Computer Center in Badahariharpur. The event celebrated the achievements of students who completed their computer courses during the session from April 2024 to September 2024. During the function, certificates were awarded to 18 students who successfully completed their courses, with the presence of 30 village women. This recognition not only marks an important milestone in their educational journeys but also serves as an inspiration to others in the



community. Shri Mohan Baskey- Mukhiya (Dugdha gram Panchayat), Shri Anil Kumar Soni- HR &IR Head(APNRL), Shri Sanjeet Kumar Sinha, Shri Anil sardar, Ms. Mamta Nayak were also present.



The ceremony was graced by the presence of Shri Mohan Baskey, Mukhiya of Dugdha Gram Panchayat,

who served as the Chief Guest. Accompanying him was Shri Anil Kumar Soni, who was honored as the Guest of Honor.

The passed out students were awarded by Shri Mohan Baskey & Shri Anil Kumar Soni and congratulated for successfully completing 6 months' computer course. Mr. Anil Sardar- Adhunik



Power and Mrs. Ambika Mahato, Instructor-Computer Center conducted the function. Mr. Ravi Singh- Adhunik Power and Mr. Bipin Giri-Adhunik Power were present.

The functions ended with vote of thanks given by Mr. Sanjeet Kumar Sinha-CSR.

4. **World Earth Day-Drawing and Essay completion:** Every year on April 22, Earth Day is celebrated across the



world, on the occasion the CSR team of Adhunik Power, Padampur and UM-School Barahariharpur jointly organized a drawing and essay competition to raise awareness about environment protection. All teachers were actively involved in the program and students participated in drawing and essay competitions. The day started with an engaging assembly where teachers taught about the importance of protecting our planet. Then, students participated in various activities like drawing, speech, essay etc. The main objective of organizing such activities is to motivate, encourage and engage the youth for sustainable development. A small action today can definitely lead to big results tomorrow. The members of the jury selected the first, second and third places and awarded them. At the end of the program, packets of biscuits were given to all the students.

5. **Drawing Competition:** Skill development among the local children is the prime objective of our CSR programme. To implement this objective, we had organized drawing competition in Srirampur, Padampur, Badahariharpur and Bikanipur on the occasion of World Environment day

2024. More than 85 children participated from the respective villages and were awarded. The children were very happy.



6. **Drawing competition:** A drawing competition was organized on December 11, 2024, in celebration of Energy Conservation Week 2024. Three outstanding students from each participating school were selected and awarded prizes. A total of 75 students from various government schools like Badahariharpur, Padampur, and Srirampur, took part in the competition.

The main objective of this competition was not only to see the creative aspect but also to trigger the thought process of the students and sensitize them



towards burning and serious issues like energy conservation and also develop their positive thinking about our society. The valedictory function was organized at APNRL campus on the last day of Energy Conservation Week on 14.12.2024. Around 200 employees including school students were also present on the occasion of this function. During the award distribution, CEO Mr. Arun Kumar Mishra congratulated each participant for their participation as well as their efforts. He appreciated the efforts of the organizing team for the variety of activities organized within a week. Vote of thanks given by Mr. Manjeet Singh.

WOMEN EMPOWERMENT & LIVELIHOOD

Adhunik Power & Natural Resources Limited, Padampur as a part of its corporate social responsibility with local Gram Panchayats and peer groups to sensitize the village elders and women to come forward for women development and pave the way for their participation in the development process that gives a decent income, gives some status in society and some dignity and meaning in life. It also conserves and, if possible, regenerates the environment and the purchasing power to lead the better life.

1. **Women empowerment & Livelihood:** Every month meetings of SHG members are organized in Padampur, Pindrabera, Badahariharpur, Chhotahariharpur; In which members discuss issues like income, expenditure and loan repayment, self-employment and personal hygiene etc. As a result, some women group have started their own employment.
2. **Training on sessional crops and income generating activities:** To promote sustainable livelihoods for poor and vulnerable groups, CSR department organized an orientation training program on

kitchen garden and cultivation of moringa/ drumstick was held on 26.6.2024 at Conference Hall, Community Center, Pindrabera in collaboration of Semina Agro Pvt Ltd., Ranchi



Mr. Sanjeet Kumar Sinha-CSR APNRL welcomed all the participants and thanked them for attending the training session. He said that develop your own kitchen garden for your family so that they can get rich nutrition throughout the year, He also said that Moringa can be

cultivated with less effort and can be taken as a commercial option. This training has been organized for educational purpose.

Altogether 30 farmers participated in the program. All the participants were actively involved in training program under the guidance of trainers.

Training was given by Trainers Mr. Mohit Kumar-MD, Semina Agro-Ranchi. Mr. Mohit elaborately explained the concept and process of kitchen garden. He also said that if farmer groups cultivate Moringa in their land, their families will get ample nutrients throughout the year. He said that Moringa tree is used for nutritional benefits, medicinal properties, environmental protection and consumption and inspired the group members that it can also be adopted as a livelihood. He said that if you people produce Moringa leaves on a large scale then we can purchase it. He explained the Characteristics of the Drumstick/ Moringa as follows-

Characteristics of the Drumstick/ Moringa

1. Production twice in a year.
2. Early fruit production: around 8 to 9 months after transplanting
3. The raw stick of this variety is greenish in Colour and tastes good.
4. The length of each stick is 45 to 75 cm.
5. High Productivity: Each plant can yield 300 to 400 sticks.
6. Each plant can yield production for more than 5 years.



Income -Calculation

High Density moringa leaves cultivation

Moringa/drumstick leaves cultivation up to 5 years

Total Number of plant per acre:	8000 to 10000
First Harvest Start:	After 90 to 100 days from germination
Second Harvest:	40 to 50 days after 1 st cutting
Harvesting:	6 to 7 times in a year.
Production dry leaves:	More than 1.2 to 1.5 tons per acre per year
Cost of cultivation per acre:	1 st year- 30000/- & 2 nd year 10000/-
Revenue:	72 to 90 thousand per acre per year
Net profit:	50 to 80 thousand per acre per year

After completion of the training, all the farmers looked satisfied and confident. Vote of thanks given by Anil Sardar.

3. **Training on Kitchen Garden:** A training program on Kitchen Garden was organized on 18.7.2024 at the Conference Hall of Community Centre, Barahariharpur. Its objective is to train villagers to develop kitchen gardens so that villagers can grow vegetables and use green vegetables throughout the year through kitchen gardens to help their families & stay healthy.

Training was given by Trainers Dr. Anjali Mishra-Sr.



Scientist KVK, Seraikela - Kharsawan. She explained the concept and process of kitchen garden. All the participants were actively involved in training program. Altogether 60 women from different villages like Badahariharpur, Chhotahariharpur, Bikanipur and Padampur participated in the program. Seasonal vegetable seeds were also distributed among the participants at the end of the session. After the

completion of the training all women were satisfied and confidence.

4. **Inauguration of Sewing Training Centre, Badahariharpur:** Adhunik Power has taken up sewing training center at Badahariharpur for the village women/youths under the project Gram Kaushal Vikas.



On the 16th of November, 2024, we organized an inaugural function for sewing classes in Badahariharpur, marking the start of the 1st batch of sewing training. Mr. Mohan Baskey, Mukhiya of Dugdha Gram Panchayat and

Mr. Anil Kumar Soni, AVP of APNRL, jointly cut the ribbon to officially declare the opening. Mr. Mohan said that "I am thankful to Adhunik Power, they have opened the center in order to develop our society" which will further help women in pursuing their career, he also said for small stitching needs, we have depended on the tailor who charges a lot of money. But after training we will not have to pay and money will also be saved in future. Mr. Anil Kumar Soni- AVP, Adhunik Power briefed narration on the importance of women



empowerment and the expected outcomes of the Tailoring Center. He also said that the participants will come regularly in training center, until they become expertise. The training center is equipped with 5 sewing machines. Around 30 women enrolled for this course. Initially 2 batches (15 per batch)

trained. The duration of the course was three month or based on their performance. Approximately 25 women regularly attended classes.

Sports & Culture

When we look at the overall dimensions of development, sports and culture hold an important place as a key component in harnessing human resources through physical fitness, sports and culture for rural communities, especially village youth. Based on the local need, a well-mapped program was organized in partnership with various stakeholders like Gram Panchayats, Sports Clubs, Local group etc. The status of organized sports and culture events were as follows:

1. Plant & Football distributed: Sports play a great role in health, mental development and improving



concentration levels also. In view of this, football was given to the rural youth in

Badahariharpur on 25.7.24 and environment related issues were also discussed with the rural youth in Badahariharpur. After this, saplings (lemon, amla and jamun) were distributed to the youth and they were promised to plant saplings and stay safe, which made all the youth happy.

2. Sports and Culture program, Padampur 2024: A Sports and culture program organized by Diba Kishun Memorial Club, Balidi (Padampur) on the occasion of Independence Day at Padampur Ground of Rapcha Gram Panchayat, Saraikela-Kharsawan from 14 to 15 August 2024. A large number of villagers from different



parts of the area were participate in sports and cultural programs. The program motivates the local youths to gather at a place with team spirit and it promotes the rural sports activity in the area.

Adhunik Power & Natural Resources Limited, Padampur facilitated with financial support and other required resources like medical team, ambulance service, drinking water facilities, preparations for making playground ready, cleaning of sites etc.

On behalf of the company, Sri Arun Kumar Mishra-CEO, Sri Rajesh Kumar Sharma-VP-Finance, Sri S. K. Parvez-DGM-HR, Sri Rajesh Kumar Singh, DGM- IR, and Sri Vikas Kumar encouraged the members of the committee by being present during event. The organizing committee were very happy and thanked to Mr. Arun Kumar Mishra to motivate them. They also thanked the company for its contribution.

3. Football Tournament at Pindrabera: Every Year Azad Club Pindrabera organized a football tournament. This tournament motivates the local youths to gather at a place with team spirit and it promotes the rural sports activity in the area. Similarly, this year the Football Tournament was organized on 14.10.2024 & 15.10.2024. 48 team participated in football tournament from nearby villages of Saraikela Kharsawan District. More than 30000 people came to see it as if the people of the whole city had come there. The Adhunik company had provided necessary resources like preparation of playground, cleaning of sites, drinking water facilities etc. as well as financial support to the organizing committee.

4. Inter Village Chess Competition: An Inter village chess competition was conducted on 24.10.2024 at Community Centre, Badahariharpur to commemorate APNRL's Founder's Day, under the guidance of CSR team. 20 boys and 10 girls from peripheral villages namely Hariharpur, Shrirampur, Bikanipur & Padampur had participated in this event. The winners of this match were Mr. Singrai Mardi & Mr. Manoj Kumar Mandal from boys' category and Ms.



Laxmi Sardar from the girls' category, who were also suitably awarded.

On the occasion, Mr. Sanjeet Kumar Sinha, APNRL, welcomed all participants and boosted their morale. In his speech, he stated the importance of any competition which develops our cognitive skill, team spirit and

brotherhood. He also motivated the villagers to send their children to participate in various indoor and outdoor games being conducted by APNRL from time to time. Village social work volunteers namely Mr. Sanjay Baskey, Mr. Anil Sardar and Mrs. Ambika Mahato actively involved in this CSR initiatives undertaken by APNRL. Mrs. Ambika Mahato also motivated the youths to come forward and participate in such type of competitions in huge numbers. At the end of the event, vote of thanks was given by Mr. Sanjay Baskey, Padampur.



5. Inter-Village Volleyball Tournament: The Inter-Village Volleyball Tournament was organized by APNRL on December 21, 2024, at Badahariharpur. The tournament was inaugurated by Sri Anil Kumar Soni, Head-HR & IR- APNRL, along with Sri Rajesh Bhagat, Community



Leader. A total of 7 volleyball teams (Village team-1. Padampur, Bikanipur, B'hariharpur, C'hariharpur, Srirampur, Madadevpuram, and Ramchandrapur) participated. The Ramchandarpur Team emerged as the winner of the tournament, while the Padampur Team secured the runner-up position. Passion for volleyball was seen in the participants as well as the audience who cheered with utmost zeal and gusto for their respective village. The Tournament was a great success as it witnessed healthy competition and a spirited fight amongst the participants.



6. Sarhul Puja, Padampur: Sarhul festival is one of the most popular tribal festivals, which is celebrated every year all over Jharkhand. The new year begins with Sarhul festival. It is a ritualistic and traditional act of the villagers. We celebrated Sarhul Puja on **8th March, 2025** with the villagers of Padampur, Bikanipur and Balidih.



In which more than 1000 population of different villages participated. The traditional folk dance was inaugurated by Sri Arun. K. Mishra,



CEO Adhunik Power & Natural Resources Limited, Padampur as chief guest. He encouraged the organizers Sri. Krishan Baskey- Gram Pradhan, Padampur, Sri Ramdas Tudu, Sri Indro Murmu, and participants for their laudable performance. Sri Rajesh Sharma-VP-Finance, Sri Anil Kumar Soni-Head, HR-Sri S. K. Parvez, GM-HR, Sri

Arjun Singh – Security Head, Sri Pamkaj Sinha- Sr. Manager, Sri Vikas Kumar and Mr. Dharni Dhar Singh- Admin were also presented.

Adhunik Power & Natural Resources Limited, Padampur is playing a vital role in promoting the traditional culture of the local communities, APNRL provided finance support to the villagers of Padampur in Sarhul Puja and also helped in cleaning, mowing and whitewashing at Saransthal and Jahirasthal.



ENVIRONMENT

World Environment Day 2024: World Environment Day was celebrated by the Plant on 5th June, 2024.



This year the theme of World Environment Day 2024 is "Land Restoration, Desertification and Drought Resilience" and the slogan is, "Our Land, Our Future." Many programs like drawing competition, slogan competition poster competition etc. were organized at different levels.

First

of all, the cycle rally was flagged off by Mr. Nirmal Aggarwal, Director of Adhunik Power in the presence of senior officials, in which about 200 employees including villagers participated. The rally went from the plant premises to Pindrabeda vs Kandra bus stand. After this Mr. Aggarwal and APNRL officers **planted saplings** inside the premises of the company. Company employees and village children also participated in the plantation.



Then a **seminar** was organized by the Environment Department. During the seminar, Mr. Agarwal addressed the audience with an enlightening speech mentioning how small endeavors could make a big difference. He urged everyone to save the environment as well as spread awareness among the people. He also said that we can ensure a sustainable

and prosperous environment for future generations. Let us not forget that every small step counts in the journey towards a greener, healthier Earth. Senior Manager of Environment Department - Mr. Kamlesh Kumar –explained about this year's theme, he requested everyone to plant trees on vacant land, only then we can save this earth and water. At the end of the program, the best 3 pictures/slogans/posters selected from each category were awarded. Vote of thanks was given by DGM Mr. S. K. Parvez HR-Department.

Saplings Distribution: Saplings were planted in govt. schools of Barahariharpur to create awareness about saving trees among school students on the occasion of World Environment Day. Around 500 saplings of three types like Jamun, Lemon and Amla were distributed among the villagers in various villages (Bikanipur, Padampur, Badahariharpur and Pindrabera) from 21.6.2024 to 28.6.2024 for environmental protection.



Infrastructure

As it is a well-known fact that infrastructure development accelerates the pace of human development and economic growth. Therefore, development of infrastructure is one of the

major focus areas of development of Adhunik Power and Natural Resources Limited (APNRL), Padampur under which the following works have been undertaken this year.

1. **Water Supply system at UM School, Badahariharpur:** The CSR team of Adhunik Power and Natural Resources Limited arranged water supply from overhead tank through pipeline in the school building, so that children can get drinking water, water for toilet use, water for cooking use etc. The school committee members and teachers were very satisfied for the above work and wished for the bright future of the company.



2. **Display board painting and installation of ramp handle:** Display board painting at Barahariharpur near CHP area for Cyber Village, it is being run by Gram Panchayat Dugdha in collaboration with Adhunik. Ramp handles were installed in school, Barahariharpur for disabled persons.

The principal was satisfied with the work and appreciated the work of the company.



3. **Road Repairing at Pindrabera:** Adhunik Power & Natural Resources Limited, Padampur is playing an important role in improving the socio-economics conditions of local communities around which the company is operative.



road from the village to Sarnasthal, which is in a pitiful condition. It was in need of immediate repair, for which the villagers have submitted a request letter also to the CSR department. The CSR team visited the spot along with the villagers and found that the condition of the

The villagers of Pindrabera had called a meeting with the CSR team. The status of the developmental projects being implemented by the CSR of Adhunik Company was discussed during the meeting, where the villagers requested the company to repair the



road was pathetic. CSR department APNRL provided slag/reject mill with JCB for filling potholes and repairing village road. Due to which repair work was done on the road and the villagers are very happy with this work.

4. Roof repairing of Government school in Badahariharpur: We have received a request letter from



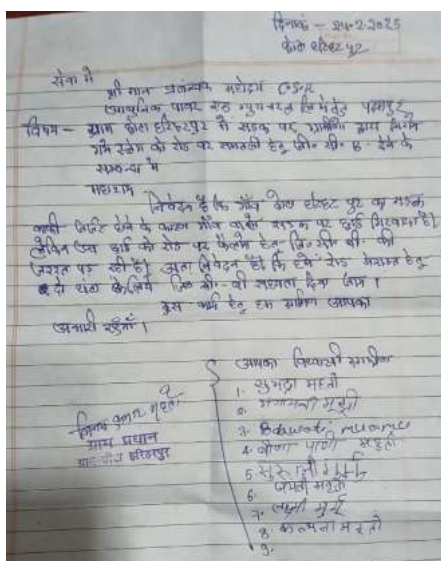
principal of Utkmik Middle School, Badahariharpur on 3.7.2024 regarding the roof repairing, where water keeps dripping/leaking from the roof during rainy days. We visited and found that repairs were needed as soon as possible. We coordinated with the civil department, APNRL for the above work. The civil department took the initiative and the repair work was completed. Students and teachers were happy and thanked the Adhunik Power for the above work.

5. Wall painting, Cleaning, mowing and whitewashing of Sarnaasthal, Padampur - The Company completed the work of wall painting, cleaning/grass cutting at Zahira/Sarnaasthal and



Majhiyasthan, Padampur by 6 March 2025, where cultural programs, rituals and traditional ceremonies were organized by the villagers along with the Company personnel on the occasion of Sarhul Puja on 8 March 2025. The villagers were very happy with this work.

6. Repairing of Village Road-Chota-hariharpur: Adhunik Power & Natural Resources Limited, Padampur, is



playing a vital role in enhancing the socio-economic conditions of the local communities in the areas where the company operates. In this context, a meeting was convened by the villagers of Chotahariharpur with the CSR team, during which the villagers requested the company's assistance in repairing the village road to the state highway (Kandra-Saraila), which is currently in

a deplorable condition. The villagers expressed that the state of the road is so poor that an accident could occur at any moment due to the numerous ditches present, posing a significant risk to safety. Immediate

repairs to the road are necessary, and the villagers submitted a request letter to the CSR department on February 24, 2025, along with a recommendation from the Gram Pradhan.

The CSR team visited the site alongside the villagers and discovered that the road was severely damaged. On February 26, 2025, the CSR department of APNRL, in collaboration with the Civil Department, provided a JCB to fill in the ditches and repair the village road. Approximately 400 meters of the road have now been successfully repaired, and the villagers are very pleased with this improvement.

- 7. Renovation of Shiv Mandir, Chotahariharpur:** The Shiv temple, which holds significant cultural and spiritual value for the local community, is currently in a state of disrepair. The ongoing deterioration, particularly evident during the rainy season when water leaks from the roof, has raised concerns about the temple's structural integrity. In response to these concerns, the villagers



have formally requested repairs to prevent potential collapse. They have also expressed their willingness to assist in the repair efforts.

The Corporate Social Responsibility (CSR) Department of APNRL has recognized the importance of this initiative and has commenced work following management approval. The repair efforts are currently underway to restore the temple and ensure its preservation for the community.

Others

- 1. Awards for noble achievement toward the society:** APNRL was honored by Voluntary Blood Donors Association (VBDA), Jharkhand for its contribution in blood donation and awareness program. The award



was presented by Ms. Ruchi Narendran (Chair Person) on behalf of VBDA during its 37th Annual Function held at Michael John Auditorium, Bistupur, Jamshedpur on 1.4.2024.

- 2. Dustbin Distribution at UM school, Badahariharpur:** This dustbin will be of great help. Considering the use of dustbins in the school community, Adhunik Company provided two containers to the UM school, Badahariharpur under CSR to store the waste, thereby maintaining cleanliness in the school. The children and teachers were very happy with this work and thanked the company.



- 3. Wheel Chair for disable person:** A CSR meeting was held on 19.4.2024 at Conference hall, DC office chaired by Deputy Commissioner, Saraikela-Kharsawan where representatives of companies operating in

the district participated along with Govt. officials. After the introduction the District Social Welfare Officer said that elections in the area are scheduled on 13.5.2024. The district will require approximately 653



wheel chairs for disable person and senior citizen in booth side, it was decided in the meeting that the companies will provide wheel chairs to the district office by 30.4.2024.

On 29.4.2024, 10 wheel chairs were made available to the District Administration, Seraikela-Kharsawan for booth side for disabled persons and senior citizens for the upcoming elections.

- 4. Village level Meeting, Badahariharpur:** On September 4, 2024, a meeting was held with women in Badahariharpur, attended by company representatives' Sri Rajesh Singh, Sajjad Mohammad Khusru, Baljeet Sansoa and Vikash Kumar. Approximately 22 women participated in the meeting. The community development program under Corporate Social Responsibilities was reviewed and discussed. Village women said that they have to face a lot of darkness while traveling to the village at night, hence arrangements for street lights should be made in the village. Company representatives said that street lights will be arranged in the village after the approval of the management.



At the end of the meeting a vote of thanks was given by the Panchayat representative Ms. Laxmi Murmu.

- 5. Blanket distribution:** 500 blankets were distributed among villagers of age above 50yrs by the Village Committee members, Gram Pradhan, CEO-APNRL and representatives of APNRL on 17.1.2025 in the OHC campus as part of fulfilling social responsibilities for communities living around our Plant. The key objective of CSR is to make sure that the help reaches those who are actually in need. So with the help of village Pradhan /leaders /village volunteers, we identified underprivileged section of the society and the neediest ones for donation. This season was the perfect time to donate blankets, which can definitely make a huge difference to a needy person or underprivileged family.



Despite the limited scope of activity, the blanket distribution campaign was quite successful in achieving its stated objective. The senior management team not only learned a valuable lesson about the importance of social service and community responsibility, but also got the opportunity to gain first-hand experience of working selflessly for those in need.

S. No.	Emp. Code	Name of Employee as on 31.03.2025
1	00302223	Mr. Arun Mahato
2	00302236	Mr. Rajen Kumar Tudu
3	00302237	Mr. Bangal Majhi
4	00302384	Mr. Lal Mohan Mahato
5	00302386	Mr. Budhram Baskey
6	00302387	Mr. Ajit Mahato
7	00302393	Mr. Bijay Baskey
8	00302430	Mr. Laxman Baskey
9	00302436	Mr. Raja Ram Baskey
10	00302453	Ms. Paneshwari Kumari
11	00302454	Mr. Sunil Baskey
12	00302458	Mr. Nuna Baskey
13	00302462	Mr. Rajesh Kumar Mahato
14	00302463	Mrs. Sonia Baskey
15	00302493	Mrs. Suraj Mani Devi
16	00302494	Mrs. Saraswati Devi
17	00302495	Mrs. Anita Mahato
18	00302501	Mrs. Bangi Baskey
19	00302503	Mr. Raju Tudu
20	00302506	Mr. Ruhi Ram Majhi
21	00302507	Mr. Dilip Mahato
22	00302508	Mr. Dulal Mahato
23	00302509	Mr. Raju Mahato
24	00302510	Mr. Santosh Mardi
25	00302516	Mr. Rajesh Mahato
26	00302517	Mr. Mohan Lal Mahato
27	00302518	Mr. Sumit Kumar Mahato
28	00302519	Mr. Tapan Kumar Mahato
29	00302520	Mr. Bibhishan Mahato
30	00302521	Mr. Suku Murmu
31	00302522	Mr. Bimal Kumar Mandal
32	00302523	Mr. Bablu Besra
33	00302524	Mr. Vikram Baskey
34	00302525	Mr. Mangal Besra
35	00302526	Mr. Bir Singh Hembram
36	00302527	Mr. Gopal Hembrom
37	00302528	Ms. Chhatamuni Baskey
38	00302529	Mr. Durga Hembrom
39	00302530	Mr. Suren Baskey
40	00302531	Mr. Dasmath Hembrom
41	00302532	Mr. Budheswar Baskey
42	00302533	Mr. Karan Hembrom
43	00302534	Mr. Umesh Tudu
44	00302540	Mr. Birendranath Baskey
45	00302541	Mr. Shailendra Tudu
46	00302550	Mr. Birdhan Baskey
47	00302574	Mr. Anil Sardar

S. No.	Emp. Code	Name of Employee as on 31.03.2025
48	00302602	Mrs. Sarla Majhi
49	00302604	Mr. Sohan Kisku
50	00302605	Mr. Dilip Kisku
51	00302606	Mr. Rabindra Nath Majhi
52	00302607	Mr. Mokra Murmu
53	00302608	Mr. Lakhiram Tudu
54	00302609	Mr. Durga Baskey
55	00302610	Mr. Jiten Hansda
56	00302611	Mr. Jiten Sardar
57	00302612	Mr. Ashok Kumar Mahato
58	00302613	Mr. Mangal Majhi
59	00302614	Mr. Sagram Tudu
60	00302615	Mr. Sunil Kumar Tudu
61	00302616	Mr. Ganesh Mahato
62	00302617	Mr. Sachin Kumar Tudu
63	00302618	Mr. Alok Mahato
64	00302619	Mr. Rakesh Kumar Mahato
65	00302620	Mr. Chhotray Majhi
66	00302621	Mr. Devi Lal Majhi
67	00302622	Mr. Govind Majhi
68	00302628	Mr. Kalipada Singh Sardar
69	00302644	Mr. Vikram Singh Sardar
70	00302645	Mr. Manik Singh Sardar
71	00302646	Mr. Jagannath Singh Sardar
72	00302647	Mr. Budheshwar Mahato
73	00302659	Mr. Krishna Manjhi
74	00302660	Mr. Sakla Hembrom
75	00302661	Mr. Uttam Kumar Mahato
76	00302662	Mr. Shikar Hembrom
77	00302663	Mr. Ranjit Besra
78	00302664	Mr. Hopna Baskey
79	00302665	Mr. Sona Ram Baskey
80	00302666	Mr. Suku Majhi
81	00302667	Mr. Gopal Majhi
82	00302668	Mr. Ramdas Kisku
83	00302669	Mr. Som Murmu
84	00302670	Mr. Khirod Chandra Mahato
85	00302671	Mr. Sona Ram Hembrom
86	00302672	Mr. Ram Hembrom
87	00302673	Mr. Rajesh Mahato
88	00302674	Mr. Nimay Mahato
89	00302676	Mr. Peeton Baskey
90	00302677	Mr. Raju Baskey
91	00302678	Mr. Bablu Baskey
92	00302679	Mr. Baijnath Mardi
93	00302680	Mr. Nitai Sardar
94	00302681	Mr. Baliram Murmu
95	00302682	Mr. Karu Tilka Majhi

S. No.	Emp. Code	Name of Employee as on 31.03.2025
96	00302683	Mr. Rajendra Hembrom
97	00302684	Mr. Jitu Hembrom
98	00302688	Mr. Umesh Baskey
99	00302690	Mr. Anil Tudu
100	00302694	Mr. Akash Tudu
101	00302695	Mr. Sushil Kumar Tudu
102	00302696	Mr. Mahendra Tantubai
103	00302697	Mr. Prakash Tudu
104	00302698	Mr. Karu Besra
105	00302700	Mr. Ravindra Nath Tudu
106	00302701	Mr. Som Majhi
107	00302702	Mr. Salku Tudu
108	00302707	Mr. Sukram Tudu
109	00302708	Mr. Jeevan Manjhi
110	00302709	Mr. Birsa Hansda
111	00302710	Mr. Surja Hansda
112	00302711	Mr. Sanjay Mandal
113	00302712	Mr. Budhadev Mahato
114	00302713	Mr. Narayan Mahato
115	00302714	Mr. Jai Chand Mahato
116	00302715	Mr. Mithun Majhi
117	00302716	Mr. Sumit Kumar Mahato
118	00302717	Mr. Mantu Mahato
119	00302718	Mr. Santosh Sardar
120	00302719	Mr. Ranjit Singh Sardar
121	00302720	Mr. Lal Mohan Mahato
122	00302721	Mr. Sohan Sardar
123	00302722	Mr. Paga Sardar
124	00302773	Mr. Shibanath Singh Sardar
125	00302774	Ms. Basanti Singh Sardar
126	00302775	Mr. Kali Pado Sardar
127	00302956	Ms. Pano Devi
128	00303025	Mr. Deepak Singh Sardar
129	00303026	Mr. Prem Kumar Sardar
130	00303027	Mr. Rakesh Mahato
131	00303028	Mr. Sanatan Baskey
132	00303029	Mrs. Malati Devi
133	00303030	Mr. Naveen Baskey
134	00303042	Mr. Sujeet Mahato
135	00303043	Ms. Sonamani Baskey
136	00303044	Mr. Ritik Hembram
137	00303045	Mr. Shambhu Baskey
138	00303058	Mr. Mukesh Baskey



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by : NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Registered by : Jharkhand State Pollution Control Board (JSPCB)
Certified by : ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.				TC	1	2	9	8	9	2	5	0	0	0	0	0	6	3	6	F
Discipline	Chemical	Group	Pollution & Environment					Sample Description							Waste Water / Effluent Water					
Report Release Date		31 st March, 2025						Report ID							YBAEEL-2503-12					
W. Order / JSPCB App. No.		3030007508						Work Order Date							07.03.2025					
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.							YBAEEL/C/PE/March-25/02					
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																		
Sampling Date		13/03/2025	Mode of sample collection					By YBAEEL Team					Sample Code		250313-WW-02					
Sampling Plan		YBAEEL/SP/March/12/2025						Sampling Method					IS -17614 (Part-1):2021							
Sampling Location		ETP Outlet						Sampling Source					Effluent Water							
Sample pkg. Condition		Sealed Pack in PP Bottle						Sample Quantity					3000 ml							
Meteorological Cond. of Field		W.C.– Clear						RH % - 50					Temp.–32°C							
Sample receipt Date		13/03/2025	Analysis Started on					13/03/2025			Analysis completed on				31/03/2025					

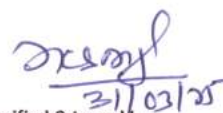
*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2022 (Electrometric Method)	pH	8.83 at 25.6°C	5.5 - 9.0
2.	Temperature	IS 3025 (P-09):2023	°C	28.4	--
3.	Total Suspended Solids	IS 3025 (P-17):2022 (Gravimetric Method)	mg/l	78.0	100
4.	BOD (3 days at 27°C)	IS 3025 (P-44):1993, RA 2019 (Oxygen Depletion Method)	mg/l	16.0	30
5.	COD	IS 3025 (P-58):2006, RA 2022	mg/l	80.0	250
6.	Chloride (as Cl ⁻)	IS 3025 (P-32):1988, RA 2019 (Argentometric Method)	mg/l	50.98	--
7.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24-Sec 1):2022 (Turbidity Method)	mg/l	82.11	--
8.	Copper (as Cu)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.01)	3
9.	Lead (as Pb)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	0.1
10.	Zinc (as Zn)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	0.06	5
11.	Chromium (as Cr)	APHA 3111 B 24 th edition 2023 (Direct Air Acetylene Flame Method)	mg/l	BDL (MDL 0.02)	2
12.	Arsenic (as As)	APHA 3114 C 24 th edition 2023 (Continuous Hydride Generation Method)	mg/l	BDL (MDL 0.003)	0.2

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL - Minimum detection limit, BDL - Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

Sample Drawn By - Angad Munda
Tested By - Sweta Kumari (Lab Analyst)

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


31/03/25
Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
ISO 45001:2018

Sewage Treatment Plant





RELIANCE INDUSTRIES LIMITED

Jamnagar-DTA Manufacturing Division

PO Motikhavdi Meghpar Padana Garga Jamnagar

Gujarat, India. PIN: 361140

CENTRAL LABORATORY

REFINERY AND PETROCHEMICALS DIVISION

BATCH FORMATION CERTIFICATE

LIGHT DIESEL OIL

IS 15770:2021

Batch No. : LDO1/RIL/651-023/386

REF/QA/QC No. : JMD/LDO1/078/11-2024

Tank No. : 651023

Date of Report : Nov 3, 2024

Date of Testing : Nov 3, 2024

Date of Sampling : Nov 3, 2024

LIMS Id. : 25121743

Sr. No.	Tests	Unit	Method	Limit	Test Results
1	Pour point	°C	IS 1448[P:10 / Section-2]	21 Max	-6
2	Flash point (PMCC)	°C	IS 1448[P:21]	66.0 Min	82.0
3	Kinematic viscosity at 40°C	cSt	IS 1448[P:25 / Section-1]	2.500 - 15.000	3.895
4	Density at 15°C	kg/m ³	IS 1448[P:16]	To report	909.5
5	Total Sulphur	% mass	ASTM D4294	0.005 - 1.500	0.310
6	Water content	% vol	IS 1448[P:40]	0.25 Max	0.05

Note :

- 1) Product conforms to the specification.
- 2) Results relate to the item tested only.
- 3) Test report shall not be reproduced except in full without written permission of the Laboratory.
- 4) Test item is analysed with latest available test methods.
- 5) Sampling not done by Laboratory.
- 6) The product meets requirement as per IS 15770-2021.

Place : Sikka, India

Date : Nov 4, 2024

Kapil Sharma

Authorized Signatory
For and on behalf of
RELIANCE INDUSTRIES LIMITED

This is electronically generated document, hence no signature is required.



भारत सरकार
भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

Petroleum & Explosives Safety Organisation (PESO)

श्री मोहन, तीसरा माला, सीता कंपाउंड, मेन रोड, सुशीला ऑटोमोबाइल के पीछे

रांची- 834001

Sri Mohan, 3rd Floor, Sita Compound, 5 Main Road, Behind Sushila Automobiles,
Ranchi - 834001

E-mail : dycceranchi@explosives.gov.in

Phone/Fax No : 651 - 2332689, 2332690, 2332688

संख्या /No. : P/HQ/JH/15/1065 (P257355)

दिनांक /Dated : 24/02/2023

सेवा में /To,

M/s. Adhunik Power & Natural Resources Ltd.,
Village-Padampur, Behind PGIL Substation,,
Adityapur-Kandra Road,,
Taluka: Adityapur(Gamharia),
District: SARAIKELLA KHARSWAN,
State: Jharkhand
PIN: 832105

24 FEB 2023

विषय /Sub : Plot No, Plot No. 161,, Behind PGIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur (Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 में स्थित विद्यमान पेट्रोलियम वर्ग C अग्निदाहन में अनुमति सं P/HQ/JH/15/1065 (P257355) के नवीकरण के संदर्भ में।
Existing Petroleum Class C Installation at Plot No, Plot No. 161,, Behind PGIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur(Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 - Licence No. P/HQ/JH/15/1065 (P257355) - Renewal regarding.

महोदय /Sir
(s),

कृपया आपके पत्र क्रमांक OIN1307334 दिनांक 23/02/2023 का आकलन करें।

Please refer to your letter No.: OIN1307334, dated 23/02/2023

अनुमति संख्या P/HQ/JH/15/1065 (P257355) दिनांक 23/12/2011 को दिनांक 31/12/2026 तक नवीनीकृत कर इस पत्र के साथ अग्रपत्र की जा रही है।

Licence No. P/HQ/JH/15/1065 (P257355) dated 23/12/2011 is forwarded herewith duly renewed upto 31/12/2026.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें। अनुमति के नवीकरण हेतु समस्त दस्तावेजों को अनुमति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

कृपया पावली दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((आशेंद्र सिंह))

(Ashendra Singh)

उप मुख्य विस्फोटक नियंत्रक

Dy. Chief Controller of Explosives

रांची/Ranchi

Note:-This is system generated document does not require signature.

(अधिक जानकारी के लिए आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)

(For more information regarding status, fees and other details please visit our website: <http://peso.gov.in>)

अनुज्ञप्ति संख्या-(Licence No.) P/HQ/JH/15/1065 (P257355)

नवीनीकरण के प्रस्तावक के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ्रिस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
1).		31/12/2013	Sd/- PESO ADMIN
2).	23/09/2013	31/12/2018	Sd/- R.P.Singh Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Ranchi
3).	18/02/2019	31/12/2022	Sd/- K. Thiagarajan Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Ranchi
4).	24/02/2023	31/12/2026	Ashendra Singh Dy. Chief Controller of Explosives Ranchi

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनसे किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिगरी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

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

Note:-This is system generated document does not require signature.



भारत सरकार
भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

Petroleum & Explosives Safety Organisation (PESO)

श्री मोहन, तीसरा माला, सीता कंपाउंड, मेन रोड, सुशीला ऑटोमोबाइल के पीछे

रांची- 834001

Sri Mohan, 3rd Floor, Sita Compound, 5 Main Road, Behind Sushila Automobiles,
Ranchi - 834001

E-mail : dycceranchi@explosives.gov.in

Phone/Fax No : 651 - 2332689, 2332690, 2332688

संख्या /No. : P/HQ/JH/15/1065 (P257355)

दिनांक /Dated : 24/02/2023

सेवा में /To,

M/s. Adhunik Power & Natural Resources Ltd.,
Village-Padampur, Behind PGCIL Substation,,
Adityapur-Kandra Road,,
Taluka: Adityapur(Gamharia),
District: SARAIKELLA KHARSWAN,
State: Jharkhand
PIN: 832105

24 FEB 2023

विषय /Sub : Plot No, Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur (Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 में स्थित विद्यमान पेट्रोलियम वर्ग C अग्निदाहन में अनुमति सं P/HQ/JH/15/1065 (P257355) के नवीकरण के संदर्भ में।
Existing Petroleum Class C Installation at Plot No, Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur(Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 - Licence No. P/HQ/JH/15/1065 (P257355) - Renewal regarding.

महोदय /Sir
(s),

कृपया आपके पत्र क्रमांक OIN1307334 दिनांक 23/02/2023 का आकलन करें।

Please refer to your letter No.: OIN1307334, dated 23/02/2023

अनुमति संख्या P/HQ/JH/15/1065 (P257355) दिनांक 23/12/2011 को दिनांक 31/12/2026 तक नवीनीकृत कर इस पत्र के साथ अग्रपत्रि की जा रही है।

Licence No. P/HQ/JH/15/1065 (P257355) dated 23/12/2011 is forwarded herewith duly renewed upto 31/12/2026.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें। अनुमति के नवीकरण हेतु समस्त दस्तावेजों को अनुमति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

कृपया पावली दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((आशेंद्र सिंह))

(Ashendra Singh)

उप मुख्य विस्फोटक नियंत्रक

Dy. Chief Controller of Explosives
रांची/Ranchi

Note:-This is system generated document does not require signature.

(अधिक जानकारी के लिए आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)

(For more information regarding status, fees and other details please visit our website: <http://peso.gov.in>)



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by : NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
 Registered by : Jharkhand State Pollution Control Board (JSPCB)
 Certified by : ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	0	5	7	9	F
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Ambient Noise							
Report Release Date		29 th March, 2025						Report ID					YBAEEL-2503-12							
W. Order / JSPCB App. No.		3030007508						Work Order Date					07.03.2025							
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/C/A/March - 25/14							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																		
Sampling Period		11/03/2025 – 12/03/2025						Mode of sample collection					By YBAEEL Team							
Sampling Plan		YBAEEL/SP/March/12/2025						Sampling Method					IS 9989:1981 (RA 2020)							
Meteorological Cond. of Field		W.C.– Clear						RH % - 45					Temp. - 32°C							
Sample receipt Date		13/03/2025	Analysis Started on				13/03/2025				Analysis completed on				29/03/2025					

*****Test Results*****

Sl.	Locations	Parameters	Units	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	Limits
1.	Near Sati Steel	Leq	dB (A)	47.5	40.6	Day – 75 Night – 70
2.	Near Reservoir	Leq	dB (A)	49.6	41.4	
3.	Near Occupational Health Centre	Leq	dB (A)	47.1	45.7	
4.	Near Main Gate	Leq	dB (A)	61.2	50.2	

- Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority. - Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority. - dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.	Area		Unit	Day Time	Night time
	A	Industrial Area	dB (A)	75.0	70.0
	B	Commercial Area	dB (A)	65.0	55.0
	C	Residential Area	dB (A)	55.0	45.0
	D	Silence Zone	dB (A)	50.0	40.0

Limit is specified as	Noise pollution (Regulation & Control) Rules, 2000.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limit.

Sample Drawn By – Angad Munda
 Tested By – Akash Khalkho (Lab Analyst)

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

Verified & Issued by
 Sanjeev Kumar Singh
 (Technical Manager)

Authorized Signatory
 Atmospheric Pollution
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
 Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
 ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :
Registered by :
Certified by : -

NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	0	5	8	0	F
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Work Zone Noise							
Report Release Date		29 th March, 2025						Report ID					YBAEEL-2503-12							
W. Order / JSPCB App. No.		3030007508						Work Order Date					07.03.2025							
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/C/A/March - 25/14							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																		
Sampling Period		12/03/2025 – 13/03/2025					Mode of sample collection					By YBAEEL Team								
Sampling Plan		YBAEEL/SP/March/12/2025					Sampling Method					IS : 9989:1981 (RA 2020), CPCB (Factory Act 1948)								
Meteorological Cond. of Field		W.C.– Clear					RH % - 47					Temp. - 32°C								
Sample receipt Date		13/03/2025		Analysis Started on			13/03/2025			Analysis completed on				29/03/2025						

*****Test Results*****

Sl.	Locations	Parameters	Units	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	Limits
1.	Near CHP Area	Leq	dB (A)	67.4	59.2	85
2.	Near Cooling Tower	Leq	dB (A)	80.3	78.4	
3.	Near Turbine Floor	Leq	dB (A)	83.1	79.8	
4.	Pump House	Leq	dB (A)	76.8	72.1	
5.	Near Compressor House	Leq	dB (A)	82.1	80.5	

Limit is specified as	Factory Act. 1948 (8 hrs.)
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO.
	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise.
	The liability of the laboratory is limited to the invoiced amount.
Remarks	All disputes are subjected to the Ranchi Jurisdiction.
	Samples comply with prescribed limit.

Sample Drawn By - Angad Munda
Tested By - Akash Khalkho (Lab Analyst)

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in





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NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	0	5	7	8	F
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Ambient Air Quality (Buffer Zone)							
Report Release Date		29 th March, 2025						Report ID					YBAEEL-2503-12							
W. Order / JSPCB App. No.		3030007508						Work Order Date					07.03.2025							
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/C/A/March - 25/14							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																		
Sampling Period		12/03/2025 – 13/03/2025					Mode of sample collection					By YBAEEL Team								
Sampling Plan		YBAEEL/SP/March/12/2025					Sampling Method			IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)										
Sampling Locations		A. Padampur Village																		
		B. Bada Hariharpur Village																		
		C. Srirampur Village																		
Meteorological Cond. of Field		W.C.– Clear				RH % - 47				Temp. - 31°C				W.D.– NE-SW						
Sample receipt Date		13/03/2025		Analysis Started on			13/03/2025			Analysis completed on				29/03/2025						

*****Test Results*****

Parameters	Test Methods	Units	Sampling Location			Limits
			Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2022	µg/m ³	92.4	88.4	85.6	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m ³	48.7	43.3	40.3	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2/Sec1) 2023	µg/m ³	20.4	17.4	14.9	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2022	µg/m ³	35.5	50.9	26.4	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	43.6	49.1	45.4	400
Ozone (O ₃)	IS:5182 (P-09):1974, RA 2019	µg/m ³	11.9	14.2	9.9	180 (1 hr.)
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m ³	0.006	0.043	BDL (MDL- 0.004)	1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m ³	BDL (MDL- 4)	BDL (MDL- 4)	BDL (MDL- 4)	--
Arsenic (As)	USEPA - IO 3.2	ng/m ³	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	--

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
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	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limits.

Sample Drawn By - Angad Munda
Tested By - Akash Khalkho (Lab Analyst)

Sanjeev Kumar Singh
29/03/25
Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
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ISO 9001:2015
ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Registered by :-
Certified by :-

Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



Test Report

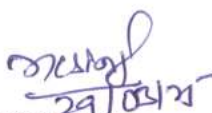
Discipline	Chemical	Group	Atmospheric Pollution	Sample Description	Ambient Air Quality (Buffer Zone)
Report Release Date	29 th March, 2025	Report ID	YBAEEL-2503-12		
W. Order / JSPCB App. No.	3030007508	Work Order Date	07.03.2025		
Type of Industry (if any)	Thermal Power Plant	Job code/ Ref. no.	YBAEEL/C/A/March - 25/14		
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.				
Sampling Period	12/03/2025 – 13/03/2025	Mode of sample collection	By YBAEEL Team		
Sampling Plan	YBAEEL/SP/March/12/2025	Sampling Method	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)		
Sampling Locations	A. Padampur Village B. Bada Hariharpur Village C. Srirampur Village				
Meteorological Cond. of Field	W.C.- Clear	RH % - 47	Temp. - 31°C	W.D.- NE-SW	
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	29/03/2025

*****Test Results*****

Parameters	Test Methods	Units	Sampling Location			Limits
			Site A	Site B	Site C	
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m ³	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	4
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006, RA 2022	µg/m ³	BDL (MDL 0.06)	BDL (MDL 0.06)	BDL (MDL 0.06)	--
Benzo (a)pyrene (BaP) (Particulate Phase Only)	IS:5182 (P-12) 2004, RA 2019	ng/m ³	BDL (MDL 0.2)	BDL (MDL 0.2)	BDL (MDL 0.2)	--

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL - Minimum detection limit, BDL - Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limits.

Sample Drawn By - Angad Munda
Tested By - Akash Khalkho (Lab Analyst)


Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

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

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :
Registered by :
Certified by : -

NABL Accredited Testing Laboratory Vide Certificate No. TC -12989
Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



TC-12989

Test Report

ULR (Unique Lab Report) No.			TC	1	2	9	8	9	2	5	0	0	0	0	0	5	7	7	F	
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Ambient Air Quality (Core Zone)							
Report Release Date		29 th March, 2025						Report ID					YBAEEL-2503-12							
W. Order / JSPCB App. No.		3030007508						Work Order Date					07.03.2025							
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/C/A/March - 25/14							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.																		
Sampling Period		11/03/2025 – 12/03/2025					Mode of sample collection							By YBAEEL Team						
Sampling Plan		YBAEEL/SP/March/12/2025					Sampling Method			IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)										
Sampling Locations		A. Near Admin Building									22°50'22"N, 86°03'35"E									
		B. Near Old Gate									22°50'37"N, 86°03'53"E									
		C. Near Laboratory									22°50'27"N, 86°03'52"E									
Meteorological Cond. of Field		W.C.– Clear				RH % - 49				Temp. - 32°C				W.D.– East-West						
Sample receipt Date		13/03/2025		Analysis Started on			13/03/2025			Analysis completed on				29/03/2025						

*****Test Results*****

Parameters	Test Methods	Units	Sampling Location			Limits
			Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2022	µg/m ³	96.8	93.6	90.4	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m ³	45.4	47.5	43.7	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2/Sec1) 2023	µg/m ³	25.1	23.4	16.2	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2022	µg/m ³	39.6	33.7	25.5	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	80.7	51.2	76.3	400
Ozone (O ₃)	IS:5182 (P-09):1974, RA 2019	µg/m ³	17.8	13.9	11.2	180 (1 hr.)
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m ³	0.013	0.019	0.011	1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m ³	BDL (MDL- 4)	BDL (MDL- 4)	BDL (MDL- 4)	--
Arsenic (As)	USEPA – IO 3.2	ng/m ³	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	--

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
	This report in full or in part, shall not be used for advertising or as evidence in any court of law.
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	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limits.

Sample Drawn By – Angad Munda
Tested By – Akash Khalkho (Lab Analyst)

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

Sanjeev Kumar Singh
24/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office -

Jamshedpur

Dhanbad

Hazaribag

Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Registered by :-
Certified by :-

Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



Test Report

Discipline	Chemical	Group	Atmospheric Pollution	Sample Description	Ambient Air Quality (Core Zone)
Report Release Date	29 th March, 2025	Report ID	YBAEEL-2503-12		
W. Order / JSPCB App. No.	3030007508	Work Order Date	07.03.2025		
Type of Industry (If any)	Thermal Power Plant	Job code/ Ref. no.	YBAEEL/C/A/March - 25/14		
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand.				
Sampling Period	11/03/2025 – 12/03/2025	Mode of sample collection	By YBAEEL Team		
Sampling Plan	YBAEEL/SP/March/12/2025	Sampling Method	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)		
Sampling Locations	A. Near Admin Building 22°50'22"N, 86°03'35"E B. Near Old Gate 22°50'37"N, 86°03'53"E C. Near Laboratory 22°50'27"N, 86°03'52"E				
Meteorological Cond. of Field	W.C.- Clear	RH % - 49	Temp. - 32°C	W.D.- East-West	
Sample receipt Date	13/03/2025	Analysis Started on	13/03/2025	Analysis completed on	29/03/2025

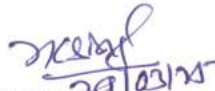
*****Test Results*****

Parameters	Test Methods	Units	Sampling Location			Limits
			Site A	Site B	Site C	
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m ³	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	4
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Benzo (a)pyrene (BaP) (Particulate Phase Only)	IS:5182 (P-12) 2004, RA 2019	ng/m ³	BDL (MDL 0.2)	BDL (MDL 0.2)	BDL (MDL 0.2)	--

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL - Minimum detection limit, BDL - Below detection limit,
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
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Remarks	Samples comply with prescribed limits.

Sample Drawn By - Angad Munda
Tested By - Akash Khalkho (Lab Analyst)

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


29/03/25

Verified & Issued by
Sanjeev Kumar Singh
(Technical Manager)

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Enquiry Office - Jamshedpur Dhanbad Hazaribag Pakur

Main Office Cum Laboratory :- Plot No. 551, Khata No 62, Sidroul, P.O. Namkum, P.S. Namkum, Ranchi, Jharkhand
Ph : 09835197960, 9304955304, Email - ybaeel@gmail.com, Web - https://ybaeel.in





ADHUNIK POWER & NATURAL RESOURCES LIMITED

WORKS : Village - Padampur, Behind P.G.C.I.L. Substation,
Adityapur - Kandra Road, Saraikela - Kharsawan, PIN - 832402 Jharkhand
Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC102935

01.12.2022

Office Order

As per the directions of the Ministry of Environment & Forest, Government of India while granting the Environment Clearances vide letter no J-13011/8/2009-IA.II(T), dated 29th Aug 2009 (Unit I) & Letter No :J13012/8/2009-IA .II (T) dtd 9th May 2011 to our 2x270 MW Power Plant, the Management considering the importance of Environmental concerns and set up the Environment Cell under the chair of Plant In charge who is directly reporting the Managing Director of Organization. The Cell is functional since 2009 and is equipped with qualified professionals of the fields.

Roles & Responsibility of Environment Cell

Following the broad scope of the Cell

- Understanding Environment issues in Adhunik power & Natural Resources Ltd during Construction & Operation and Maintenance Phase.
- Framing appropriate scope of work for requisite environment management, EIA & various other complex issues to address those with tailor made solutions,
- Awarding the consultancy tasks for environmental management & EIAs, Modeling, Monitoring etc & other complex studies to the appropriate agency and also sometimes In-house work of Monitoring,
- Dealing with JSPCB/CPCB/MoEF &CC for various aspects including obtaining clearances for Plant and Plant led development and policy makings at State and National level,
- The meeting of the management of M/s APNRL shall be conducted in which the budgetary allocation for the EMP shall be discussed and finalized and comprehensive EMP shall be prepared as per the guidelines of CPCB.
- Preparation of Environmental Management Plans- Basically Assisting Engineering Section for preparation Master Plan for existing plant to address policy regulations issued by MOEF& CC from time to time,
- Operating and upgrading the existing Hazardous Waste Management Facilities for Plant Area as per latest regulations.- (Development and Operation of TSDF at APNRL),
- Initiating dialogs, meeting & developing participatory approach with the key stakeholders for solving any typical pollution related problems.
- Review of EMP for various sections of plant and suggest modifications if any for better Env Management,
- Representing APNRL at the State and National level platform for Environment Management
- Comments & advice on draft amendment, notifications on Environmental Laws.
- Imparting knowledge and raising awareness for Environment Protections among APNRL key officers and other related stakeholders,
- The Plant Incharge will be responsible for environmental issues at plant.

The responsibilities of the various members of the environment management cell are enclosed as
Annexure I:

CORPORATE OFFICE : "LANSLOWNE TOWER", 2/1A, Sarat Bose Road, Kolkata - 700 020

Ph : +91 - 33 - 30517100 / 7200 / 7300 • Fax : +91 - 33 - 22890285

REGD. OFFICE

: 14, N. S. Road, 2nd Floor, Kolkata - 700 001, Phone No. +91 - 33 - 22428551, 22428553

Website

: www.adhunikgroup.com



ADHUNIK POWER & NATURAL RESOURCES LIMITED

WORKS : Village - Padampur, Behind P.G.C.I.L. Substation,
Adityapur - Kandra Road, Saraikela - Kharsawan, PIN - 832402 Jharkhand
Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC102935

01.12.2022

Annexure I

Responsibilities of the members of the environment management cell

S. No.	Designation	Responsibility	Reporting to
01	Managing Director	Environmental policy and directions	
02	Plant Head	Overall responsibility for environmental management and decision making for all environmental issues	Managing Director
03	Environment Manager Kamlesh Kumar (M.Sc.- Environmental Science)	Overall in-charge of operation of environmental management facilities of respective sections. Ensure environmental monitoring as per appropriate procedures, Ensure correct records of generation, handling, storage, transportation and disposal of solid hazardous wastes. Ensuring legal compliance by properly undertaking activities as laid down by various regulatory agencies from time to time and interacting with the same and arranging awareness programme among the workers.	Plant Head
04	CSR Manager Sanjeet Sinha (M.Sc – Maths)	Responsibility to implement social impact improvement /mitigation measures.	Plant Head
05	Safety Manager Bidesh Bid B.Sc in Chemistry(H) Diploma in Industrial Safety	Participating in workplace safety and health planning meetings. Ensuring managers and supervisors have the appropriate safety and health; Accident prevention; and investigation & training Ensure safety and health hazards are corrected, eliminated or guarded.	Plant Head
06	Medical Officer Dr. Ganesh Prasad Murmu, MBBS	Attend all types of OPD and Emergency Patients. First Aid Treatment to all Cases. Routine Medical Examination of Company Employees. Performing & Conducting various training & awareness programs in company.	Plant Head
06	Chemist Tapas Kumar Mahato B.Sc/ M.Sc	To initiate environmental monitoring as per approved schedule. Prepare & Submit the monitored results and corrective measures in case monitored results are above the specified limit.	Environment Manager
07	Horticulture officer Ravi Prakash Sharma Graduate	Responsible for development of Green belt & Land Scape on vacant land of Plant premises.	Environment Manager

[Signature]
DGM(HR)

CORPORATE OFFICE : "LANSDOWNE TOWER", 2/1A, Sarat Bose Road, Kolkata - 700 020

Ph : +91 - 33 - 30517100 / 7200 / 7300 • Fax : +91 - 33 - 22890285

REGD. OFFICE

: 14, N. S. Road, 2nd Floor, Kolkata - 700 001, Phone No. +91 - 33 - 22428551, 22428553

Website

: www.adhunikgroup.com

Kamlesh Kr Jha

From: Kamlesh Kr Jha
Sent: 24 September 2024 11:34
To: 'ranchijspcb@gmail.com'; 'ro.ranchi-mef@gov.in'; 'jspcb.jsr@gmail.com'
Subject: Submission of Environmental Statement (Form V) for Unit II (1 x 270 MW) of M/s Adhunik Power & Natural Resources Limited,Village-Padampur, Dist-Saraikela-Kharswan, Jharkhand for FY (2023-24).
Attachments: Environment Statement-Unit II (2023-24).pdf

To,
Member Secretary
Jharkhand State Pollution Control Board,
HEC Campus, Dhurva,
Ranchi , Jharkhand.
Sub- Submission of Environmental Statement (Form V) for Unit II (1 x 270 MW) of M/s Adhunik Power & Natural Resources Limited,Village-Padampur, Dist-Saraikela-Kharswan, Jharkhand.

Ref: Environmental Clearance letter No J-13012/8/2009-IA.II(T), Dated 09th May 2011.

Dear Sir,

In line with compliance of above referred EC letter point No XIII of general condition, Please find attached herewith Environmental statement (Form V) for the financial year 2023-24.

This is for your kind information & record please.

Thanking You

Regards

Kamlesh Kumar

A.G.M-Environment

Adhunik Power & Natural Resources Ltd.

Vill.-Padampur,,Behind P.G.C.I.L Substation,Tata-Kandra Road

Saraikela-Kharsawan,Pincode:-832402,Jharkhand

Cell No: - 07763818994

Email Id:- kamleshkrjha@adhunikpower.co.in

Website:- www.adhunikpower.com

Attachment: As mentioned above

CC: 1. Integrated Regional Office -Ranchi,
Ministry of Environment, Forest and Climate Change,
2nd Floor, Jharkhand State Housing Board (HQ)
Harmu Chaouk, Ranchi, Jharkhand-834002
2. Regional Office. JSPCB, Adityapur

From: Kamlesh Kr Jha
Sent: 09 December 2024 16:00
To: 'ro.ranchi-mef@gov.in'; 'ranchijspcb@gmail.com'
Cc: 'JSPCB, Jamshedpur'
Subject: Submission of Half yearly compliance status report (Unit II) of M/s Adhunik Power & Natural Resources Ltd for the period – April 2024 to September 2024,-Reg.
Attachments: Annexure X- List of Local employees.pdf; Annexure XI-ETP Outlet- Sep 24.pdf; Annexure XII- Sewage Treatment Plant -60KLD.pdf; Annexure XIII(a)-Coal Test report.pdf; Annexure XIII-LDO Certificate 2023-26.pdf; Annexure XIV-Noise Monitoring -Sep 24.pdf; Annexure XV-Ambient Air -Sep 24.pdf; Annexure XVI-EMC CELL-31.12.2022.pdf; Annexure XVII-Environment Statement -Unit II- Submission Letter.pdf; Annexure XVIII-EC compliance Half Yearly -Unit II (Oct 23 -March 24).pdf; Covering Letter with Compliance report of EC -Unit II(APNRL).pdf; Annexure I-(Dalma Wildlife sanctuary).pdf; Annexure II-Ground Water Baseline-Sep 24.pdf; Annexure III-Piezometer.pdf; Annexure IV-Surface Water-Sep 24.pdf; Annexure IX-CSR report April 24- Sept 24.pdf; Annexure VI-Fly Ash Generation & Utilization (2024-25).pdf; Annexure VII-Bottom Ash- Sep 24 (1).pdf; Annexure VIII-Ash Pond Outlet- Sep 24.pdf; Annexure V-Stack Monitoring Unit II-Sep 24.pdf

Ref:- MoEF & CC issued Environment Clearance File No. J-13012/8/2009-IA.II(T), Dated 09th May 2011.

Sir,

With reference to the above referred Environmental Clearance, we are pleased to submit herewith the half yearly compliance status report with Annexures **(Unit II)** for the period of **April 2024 to September 2024**.

Following Documents are attached :

1. Covering Letter with compliance report of Environment Clearance –Unit II
2. Annexure I- (Notification of Dalma Wildlife sanctuary)
3. Annexure II-Baseline Calibration water quality report
4. Annexure III-Piezometer
5. Annexure IV-Surface Water Quality Report
6. Annexure V-Stack Monitoring Report- U II
7. Annexure VI-Fly Ash Disposal report (April 2024- Sep 24)
8. Annexure VII-Bottom Ash Report (1)
9. Annexure VIII-Ash Pond Outlet Water Quality
10. Annexure IX-CSR-Report (April 24- September 24)
11. Annexure X-List of Local employees
12. Annexure XI-ETP Treated Water Quality Report
13. Annexure XII- Sewage Treatment Plant -60KLD
14. Annexure XIII-LDO Certificate 2023-26
15. Annexure XIII(a)-Coal Test report
16. Annexure XIV-Noise Monitoring Report
17. Annexure XV-Ambient Air Quality Report
18. Annexure XVI-EMC CELL-31.12.2022
19. Annexure XVII-Environment Statement -Unit II (2023-24)
20. Annexure XVIII-HYC-Unit II (**Oct 2023- March 2024**)-Acknowledgement Copy

This is for your reference and record, please.

Thanks & Regards,

Kamlesh Kumar

Adhunik Power & Natural Resources Ltd.

Vill.-Padampur,,Behind P.G.C.I.L Substation,Tata-Kandra Road

Saraikela-Kharsawan,Pincode:-832402,Jharkhand

Cell No: - 07763818994

Email Id:- kamleshkriha@adhunikpower.co.in

Website:- www.adhunikpower.com