

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/261122/02

Dated: 26.11.2022

To,

Regional Office (ECZ), Ministry of Environment, Forest and Climate Change, Bungalow No. A-2, Shyamali Colony, Ranchi – 834002

Sub:- Submission of Half yearly compliance status report (Unit II) for the period – April 2022 to September 2022 -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 !!) for the period of April 2022 to September 2022.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

(Au horized 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

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Website

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REPORT

FOR EXPANSION OF 1X270 MW COAL BASED POWER PLANT

(Unit II)



APRIL 2022 - SEPTEMBER 2022

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

\		ra Chouka Road, Saraikela-Kharsawan, Jharkhand			
Environmental Clearance Letter No: J13012/8/2009-IA .II (T) dtd 9th May 2011.					
	Period Of Compliances: Apr	il 2022 to September 2022			
SI No	EC Conditions	Status as on 30 st September 2022			
A. Sp	ecific 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 March, 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 March 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			

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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.	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 is in process and shall be submitted shortly. 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 September 2022 are enclosed as Annexure II.
xii.		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.
vii.	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 September 2022 are enclosed as Annexure II. Regular monitoring of ground water level are

	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:
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 September 2022 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. High Efficiency Electrostatic Precipitators	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
AAIII.	(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 September 2022 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 2022 to September 2022) 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.	Monitoring of mercury and other heavy metals (As, Hg, Cr, Pd etc.) in the bottom ash and also in the
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 coordination with the district administration.	a. Barahariharpur b. Padampur c. Srirampur
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.		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 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.

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В. С	General Conditions:	
i.	The tweeted off the control of the c	
l li	The treated effluents conforming to the prescribed standards only shall be recirculated and reused within the plant. Arrangements shall be made that effluents and storm water do not do not get mixed.	Treated effluent analysis report of ETP from For the month of September 2022 are enclosed as Annexure
		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 KI capacity (03 No) has installed within plant
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 15/12/2011. License No. P/HQ/JH/15/1065 (P257355), valid upto 31.12.2022 for LDO storage installation (under Petroleum Class "C") for operations. Copy of Approval are enclosed as Annexure XIII. APNRL is using liquid fuel with sulfur content variation between 0.80 -1.5% which is provided by HPCL. 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.
⁄i.	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 September 2022 are enclosed As Annexure XIV.

vii.	Regular monitoring of ambient air ground level concentration of SO ₂ , NOx, PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	accredited Laboratory for the month of September 2022 are enclosed As Annexure XV. Review of air quality monitoring results revealed compliance to NAAQS. 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 Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	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 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.	conditions along with monitored data has been uploaded on the company website. The monitoring data (SPM, RSPM, SO2, NOx) 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 same has been submitted for the period of April 2021 to September 2021 in office of MoEF, Ranchi & CPCB office, Kolkata along with monitored data.
xiii.	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	The last environmental statement for financial year (2021-22) in Form V has submitted to JSPCB dated 20th Sep 2022. Acknowledgement copy of same attached as Annexure XVII. Environment Statement (2021-22) 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/280522/02 ,dated 28 TH May 2022. 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, SO2, NOx) 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, रॉची।

पत्रांकः-19एम01(5)29/2008 2574 दिनांकः-23.7.09

सम्बिव,

न एवं पर्यावरण विभाग,

झारखण्ड सरकार, रॉची ।

मैसर्स आधुनिक थर्मल एनर्जी लिमिटेड के कान्ड्रा पदम्पुर, श्री रामपुर, रामचन्द्रपुर मीजा, जिला—सरायकेला—खरसांवा 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, रांची 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 :-

- विषयक थर्मल पावर प्रोजेक्ट काण्ड्रा 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 कि0मी0 दूर स्थापित होगा। प्रस्तावित क्षेत्र की 10 कि0मी0 त्रिज्या के अंदर अवस्थित वन भूमि सिंहभूम गज आरक्ष्य का भाग है।
- 3. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची के द्वारा पावर प्रोजेक्ट के लिए प्रस्तावित स्थल को प्रस्तावित इको—सेंसिटिव जोन से सटा हुआ बताया गया है, जबिक 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 कि0मी0 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 कि0मी0 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 कि0मी0 से अधिक दूरी वर अवस्थित है। इसके अतिरिक्त कोई अन्य हाथी कोरीडोर प्रस्तावित

Mr.

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 अनियामित है। उन्होंने यह भी वर्णित किया है कि आश्रयणी से हाथियों का आवागमन रामगढ़, एन०एच०—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 समीक्षेपरांत 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 कि०मी०(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 इंण्डिया, नई दिल्ली' के द्वारा किया गया है। इस कार्य में झारखंड वन विभाग के द्वारा भी सहयोग किया गया था। उपरोक्त स्वयंसेवी संस्था द्वारा प्रकाषित '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 ग्रिंड कॉरपोरेशन ऑफ इण्डिया लि0, बीठकेठ स्टील आई०ओ०सी०एल0, टीठसी०एस0, उषा मार्टिन, नीलांचल स्टील, आदि स्थापित हैं। यह अनुलग्नक—3 पर दो प्रतियो में उपलब्ध नक्शे से स्पष्ट हैं। 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 प्रमंडल, रांची ने प्रस्तावित स्थल दलमा आश्रयणी एवं elephant bearing area के समीप होने के कारण हाथियों के आवागमन पर पड़ने वाले प्रतिकूल प्रमाव 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

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R.

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

प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची द्वारा अग्रलिखित शर्त्त पर संबंधित परियोजना हेतु एन०ओ०सी० निर्गत करने की अनुशंसा की गई है कि EIA के ToR की शर्त्त 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 मे 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।

अनु0-यथोक्त।

9.

विश्वासभाजन,

२ १ १ प्रधान मुख्य वन संरक्षक, झारखण्ड, रांची।

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Accredited by: -NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018 Certified by:-



DICINCER



Test Certificate

ULR (Unique Lab Report) No.	L XIV	T C 4 0	3 2 2 2 2	2 0 0 0	0 0 1 6 2 8 F	
Discipline Chemical	Group	Water	Sample Description		Ground Water	
Report Release Date	30th September, 2022 3030005781 Thermal Power Plant		Report ID Work Order Date Job code/ Ref. no.		YBAEEL-220920-114052- GW01 18.12.2021 YBAEEL/WA/L/C/Sep-22/06	
W. Order/ JSPCB App. No.						
Type of Industry(If any)						
Sampling Date	24/09/2022	VV(s)	Mode of sample	e collection	By YBAEEL Team	
Sampling Date	24/09/2022		Mode of sample collection		By YBAEEL Team	
Sampling Protocol	IS: 3025 (Part	-1) 1987, R-2003	Sample Code		220926-GW-E01	
Sampling Location	Srirampur Borewell		Sampling Source		Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity		3000 ml	
	111.0		RH % - 66			
Meteorological Cond. of Field	W.C Clear		I KM 70 - 00		Temp 30 °C	

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	На	1.77	6.76	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen		10	5-15
3.	Conductivity	IS 3025 (P-14):2013	us/cm	1.90	548.0	2-13
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.58	158.0	200-600
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1,35	194.0	200-600
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	94.0	500-2000
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
8.	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	3.41	55.0	250-1000
9.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	12.22	0.6	1.0-1.5
10.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rdedition 2017	mg/l	11.33	1.01	AN CLEY CO.
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	56.0	45-No relaxation
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B: 2017	mg/l	1.90	13.12	75-200
13.	Sodium (as Na+)	APHA 3111 B 23rd edition 2017	mg/l	16.98	32.0	30-100
14.	Potassium (as K*)	APHA 3111 B 23rd edition 2017	mg/l	9.21	1.0	

IS 10500: 2021				
MDL : Minimum detection limit, BDL : Below detection limit.				
Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).				
All values are processed in as unit and results listed only only to the best of a result and results are processed in as unit and results listed only only to the best of a result and results.				
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 reported and the control				
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.				
Sample compiles with prescribed limits.				
Angad Munda				
Akash Khalkho (Lab Analyst)				

30.09.2022	30 9 6 2
. Venified by	Issued by
Shivani Kumari Singh	Umesh Das
Authorized Signatory	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

Branch Office : -Jamshedpur

Dhanbad

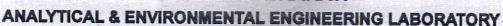
Hazaribag



Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



YUGANTAR BHARATI



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Test Certificate

Discipline Chemical	Group	Water	Sample Descripti	on	Ground Wa	for 7
Report Release Date	30th Septem	nber, 2022	Report ID			0920-114052- GW01
W. Order/ JSPCB App. N			Work Order Date		18.12.2021	0920-114032- GVV01
Type of Industry(If any)	Thermal Po	wer Plant	Job code/ Ref. no			A/L/C/Sep-22/06
- 45		nik Power & Natural Res				
Line of Property	viii. • raua	impur, PGCILS, Kandra	- 832402, Jharkha	nd.	ROWELL	
	24/09/2022	impur, PGCILS, Kandra	- 832402, Jharkha Mode of sample c	Black Street	By YBAEEL	Team
Sampling Protocol	24/09/2022	art-1) 1987, R-2003	AND	Black Street	By YBAEEL 220926-GW-	The second secon
Sampling Protocol	24/09/2022	art-1) 1987, R-2003	Mode of sample code	Black Street	220926-GW-	E01
Sampling Protocol Sampling Location	24/09/2022 IS : 3025 (Pa Srirampur B	art-1) 1987, R-2003	Mode of sample c Sample Code Sampling Source	Black Street	220926-GW- Ground Wat	E01
Sampling Date Sampling Protocol Sampling Location Sample pkg. Condition Meteorological Cond. of	24/09/2022 IS: 3025 (Pa Srirampur B Sealed Pack	art-1) 1987, R-2003 Borewell k in PP Bottle	Mode of sample code	Black Street	220926-GW-	E01 er artik

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

SI	Description and a second	U.S. C. Commission of the Comm		7		Look Ch. Th.
91	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	145.90			
2.	Taste	IS 3025 (P-07):2002			Agree.	Agreeable
3	Cyanide (as CN-)			-	Agree.	Agreeable
	Oyamae (as CN)	IS 3025 (P-27)	mg/l	~	BDL (MDL 1.0)	0.05-No relaxation

Limit is specified as	IS 10500: 2021
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.
THE NEW YORK	This report cannot be reproduced, except when in full, without the written nermission of the CEO.
TRUE STEELS	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise.
等行所,及上世中以關鍵 的	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

Akash Khalkho (Lab Analyst)

LIDEA	30.09.2022	30.913
	.Verified by	Issued by
15 A 187 1 1	Shivani Kumari Singh	Umesh Das
414875-1-1-2	Authorized Signatory	Authorized Signatory

Authorized Signatory Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

MICANTAR BHAVATT

Branch Office : -

ISO 45001:2018

Jamshedpur

Dhanbad



Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com; Web - https://ybaeel.in



Accredited by: -NABL accredited testing laboratory vide certificate Number TC-4032

Certified by: -

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





Test Certificate

ULR (Unique Lab Report) No.	and a	T	C	4	0	3	2 2	12	0	10	In	T	0 1	0 [4	6	1 2	1	Tr
Discipline Chemical	Group		Water	3.0		Sar	iple De	script	ion	10	1 0	+	Rosi	tuo 8	Cor	tamie	ants i	- 14/-1	<u> </u>
Report Release Date	30th Septemb	er, 202	22			10.00	ort ID	ооп.р.	1011			-		-	4,000	-	14052		200
W. Order/ JSPCB App. No.	3030005781						k Orde	r Date		CN	A PAR	_	7775	2.202	_	20-1	14002	- GV	101
Type of Industry(if any)	Thermal Pow	er Plan	nt			1	code/	-				-	100000		_	inic	ep-22	NA.	-
Sampling Date	Vill Padan 24/09/2022	npur, F	GCIL	.5, Kar	idra -				Jes.			T	Ry Y	RAFE	I T	nam.			e N. A
	24/09/2022	yVA"				Mod	e of sa	mple	colle	ction			Ву Ү	BAEE	LT	eam		200	
Sampling Protocol	IS: 3025 (Par	t-1) 198	87, R-2	2003		Sample Code				220926-GW-E01									
Sampling Location	Srirampur Bo	rewell	CAN			San	pling S	ource					Grou	nd W	ater				-
Sample pkg. Condition	Sealed Pack i	in PP B	ottle			_	ple Qu					-	1000		aco.		K i i		
Meteorological Cond. of Fleld	W.C Clear			Fals.	3 3	STATE OF THE PARTY NAMED IN	6 - 66			410		-	-	30	000		- A		
Sample receipt Date	26/09/2022	Ana	lunia (Started			9/2022	100	1.	alysis		_	-	-	, -0			22	

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

SI	Parameter .	Test Method	Units	MU %	Results	Limits
1.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	
2.	Copper (as Cu)	APHA 3111 B 23rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.01-No relaxation 0.05-1.5
3.	Iron (as Fe)	APHA 3111 B 23rd edition 2017	mg/l	2.34	0.18	1.0-No relaxation
4.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01-No relaxation
5.	Cadmium (as Cd)	APHA 3111 B 23rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003-No relaxation
6.	Mercury (as Hg)	APHA 3112 B 23rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001-No relaxation
7.	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05-No relaxation
8,	Nickel (as Ni)	APHA 3111 B 23rd edition 2017	mg/l 1	13.72	0.02	0.02-No relaxation
9.	Cobalt (Co)	APHA 3111 B 23rd edition 2017	mg/l	28.33	BDL (MDL 0.03)	A CALL OF THE REAL OFF

*End of Report****

Limit is specified as	IS 10500: 2021
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 action and receive 42°C and receive Humolity 60 ± 5% in all testing areas as per IS 196.1966 (C).
	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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WILLIAM STATE	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.
Mar Color Color - Taylor	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By Angad Munda

Jan 30,09,2022	3019/2 2
Tested by	- Verified & Issued by
Shivani Kumari Singh	Uniesh Das
(Lab Analyst)	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharall Analytical & **Environmental Engineering Laboratory**

Branch Office : - Jamshedpur Dhanbad Hazaribag Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in







Certified by:-

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An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline Chemical	Group	Water	Sample Descrip	otion	Pasidua & C	ontaminante in Meter	
Report Release Date	30th Septemb	er, 2022	Report ID	Residue & Contaminants in Wat YBAEEL-220920-114052- GW			
W. Order/ JSPCB App. No.	3030005781	7-24-79 (AV.)	Work Order Dat			10920-114052- GW01	
Type of Industry(If any)	Thermal Pow	er Plant	Job code/ Ref. 1		18.12.2021	A/L/R/Sep-22/02	
Report Issue to	Vill Padam	Power & Natural Res	– 832402, Jharkh		NO WELL	THO WA	
	24/09/2022		Mode of sample	collection	By YBAEEL Team		
Sampling Protocol	IS: 3025 (Par	t-1) 1987, R-2003	Sample Code		220926-GW-E01		
Sampling Location	Srirampur Borewell Sampling Source			e	Ground Water		
Sample pkg. Condition	Sealed Pack I	n PP Bottle	Sample Quantity		1000 ml	with a bit of the bit	
cample pag. collaition			- minhin armittee		10001111		
Meteorological Cond. of Field	W.C Clear		RH % - 66	YIV	Temp 30	10	

SI	Parameter	Test Method	Units	MU %	Results	Limits	
1.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l		BDL (MDL 0.02)		
100			anan J. In .		BUL (MUL U.UZ)	0.03-0.2	

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining Dotte Service acression minit.
Specific contractual notes	Laboratory is maintaining. Temperature 27 ± 24C and Relative Humildity 65 ± 5% in all testing areas as per IS 196:1966 (C).
	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 and aball as the sample and applicable parameter in Lab's Permanent Facility.
	mis report, in full of in part, Stidil Hot be used for advertising or as authorize in any court of law
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OTHER PORT OF THE PERSON OF TH	The samples collected shall be destroyed after 15 days from the date of issue of the certificate upless specified attention
	the lability of the laboratory is limited to the invoiced amount
The second second second	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By Angad Munda

WALL T	Juan 2022	30/2/2
1,045	Tested by	Verified & Issued by
	Shivani Kumari Singh	Urlesh Das
	(Lab Analyst)	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

Branch Office : -Jamshedpur Dhanbad Hazaribag Pakur





Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



Accredited by: -NABL accredited testing laboratory vide certificate Number TC-4032

Certified by:-

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





Test Certificate

ULR (Unique Lab Report) No.	WUT	T	C	14	0	3 2	1 2	12	l n	0	0	0	0	1	c	14	10	Te
Discipline Biological .	Group		Wat	er		S	ample	Desc	ription		G	Olin	d Wa	ator	10	4	0	<u> r</u>
Report Release Date	29th September	er, 202	2				eport I								0-11	4052	- GWI	11
W. Order/ JSPCB App. No.	3030005781						ork Or		ate	£144		0.0	2021		0-11	7002	- 0 8 8 1	-
Type of Industry(If any)	Thermal Power	r Plan	nt				ob cod				_			AJLI	MISA	n-22	IDA	
Sampling Date	Vill Padam 24/09/2022										Rv	YR	ΔEEI	Too	m			× 04
		N. P.			M	Mode of sample collection				Ву	By YBAEEL Team			334				
Sampling Protocol	IS: 1622:1982	R - 2	019		S	Sample Code			220926-GW-E01									
Sampling Location	Srirampur Bor	e Wel	100 N		S	Sampling Source			Ground Water									
Sample pkg. Condition	Sealed Pack in	PP B	ottle		-	Sample Quantity			250 ml									
			RH % - 66		Temp 30°C			2584										
Meteorological Cond. of Field	W.C Clear				R	1% - 6	3			TE IN	Ta	mn	- 300	0		110	3.1	

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

SI	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9222B, 23rd Edition 2017	cfu/100 ml	Absent	
2.	Fecal coliform	APHA 9222D, 23rd Edition 2017	cfu/100 ml	Absent	Shall not to be Detectable in any 100 ml
3.	Ecoli	APHA 9222H, 23rd Edition 2017	cfu/100 ml	Absent	sample

End of Report®

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit
Env. Condition of Lab	<1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
CVI	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 second in the or an part, small not be used for advertishing or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO.
0.92	The samples collected shall be destroyed after 7 days from the date of issue of the carbiforte unless specified attacks.
	The liability of the laboratory is limited to the invoiced amount.
	All disputes are subjected to the Ranchi Junsdiction
Remarks	Sample complies with prescribed limit.

Sample Drawn By

29-9 -2022 Tested by Verified & Issued by Madhuri Sinha Mukesh Kumar (Lab Analyst) **Authorized Signatory**

> **Authorized Signatory** Microbiological Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

Branch Office : -Jamshedpur Dhanbad







Accredited by: -

Certified by:-

YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	AVA T	T C 4 0	3 2 2 2	0000	0 0 1	1 6 2 9 F		
Discipline Chemical	Group	Water	Sample Descript	tion	Ground Wa	ter		
Report Release Date	30th Septembe	r, 2022	Report ID			20920-114052- GW02		
W. Order/ JSPCB App. No.	3030005781		Work Order Date		18,12,2021			
Type of Industry(if any)	Thermal Powe	r Plant	Job code/ Ref. n	0.	YBAEELW	A/L/C/Sep-22/06		
Sampling Date	24/09/2022	our, PGCILS, Kandra			By YRAFFI	ALL STATES		
Complian Data	24/09/2022		Mode of sample	collection	By YBAEEL Team			
	The State of the S					. Team		
Sampling Protocol	IS: 3025 (Part-	1) 1987, R-2003	Sample Code		220926-GW			
Sampling Protocol	IS : 3025 (Part- Padampur Bor		Sample Code	I THAT		-E02		
Sampling Protocol Sampling Location		ewell AND PARTY	Sample Code Sampling Source		Ground Wa	-E02		
Sampling Protocol Sampling Location Sample pkg. Condition Meteorological Cond. of Field	Padampur Bor	ewell AND PARTY	Sample Code			-E02 ter		

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	рН	1.77	6,64	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen		10	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	464.0	3-13
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	86.0	200-600
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	166.0	200-600
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	248.0	500-2000
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
8.	Chloride (as CI)	IS 3025 (P-32):2003	√mg/l	3,41	47.0	250-1000
9.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	12.22	0.4	1.0-1.5
10.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rdedition 2017	mg/l	11.33	9.99	45-No relaxation
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	44.0	75-200
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B : 2017	mg/l	1.90	13.60	30-100
13.	Sodium (as Na*)	APHA 3111 B 23rd edition 2017	mg/l	16.98	20.0	30-100
14.	Potassium (as K+)	APHA 3111 B 23rd edition 2017	mg/l	9.21	3.0	

Limit is specified as	IS 10500: 2021			
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.			
200	The samples collected shall be destrough about 5 to window the writing 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.			
Remarks	Sample complies with prescribed limits.			
1000 P				
Sample Drawn By -	Angad Munda			
Tested By .	Akash Khalkho (Lab Analyst)			
V4.75-4				
뭐하게 하는 그 이렇게 됐	THE RESERVE OF THE PARTY OF THE			

Jan 19.2022	730/9/22
. Verified by	issued by
Shivani Kumari Singh	Umesh Das
Authorized Signatory	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory



Branch Office : - Jamshedpur Dhanbad Hazaribag Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in







Certified by:-

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline Ch	nemical	Group	Water	Sample Descrip	tion	Ground Wa	ter C	
Report Release	Date	30th Septemb	er, 2022	Report ID		YBAEEL-220920-114052- G		
W. Order/ JSPC	B App. No.	3030005781		Work Order Dat	0	18,12,2021	10320-114032- GVV02	
Type of Industry	y(If any)	Thermal Pow	er Plant	Job code/ Ref. r			A/L/C/Sep-22/06	
Report Issue to Sampling Date	ig Lagura ^r		k Power & Natural Res npur, PGCILS, Kandra	- 832402, Jharkh	1	96 ⁹⁸⁶³	The CHEN	
		2 200 200 200		Mode of sample	collection	By YBAEEL Team		
Sampling Protoc	The second secon	IS: 3025 (Par	t-1) 1987, R-2003	Sample Code		220926-GW-E02		
Sampling Locati	ion	Padampur Bo	prewell	Sampling Source	•	Ground Water		
Sample pkg. Co	ndition	Sealed Pack i	n PP Bottle	Sample Quantity		. 3000 ml		
Meteorological (Cond. of Field	W.C Clear		RH % - 66		Temp 30	9C	
	Date	26/09/2022		Started on 26/09/2022 Analysis co		1011101 00	West of the Control o	

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

SI Parameter	Test Method	Units	MU %	Results	Limits
. Odour	.IS 3025 (P-05):2002				The state of the s
. Taste	IS 3025 (P-07):2002			Agree.	Agreeable
. Cyanide (as CN-)	IS 3025 (P-27)	mg/l		BDL (MDL 1.0)	Agreeable 0.05-No relaxation

Limit is specified as	IS 10500: 2021
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
LAN WEST	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
THE PARTY NAMED IN	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 Julisdiction
Remarks	Sample compiles with prescribed limits.

Sample Drawn By

Angad Munda

Tested By

Akash Khalkho (Lab Analyst)

THE RESERVE THE PROPERTY OF THE PERSON OF TH	
30.09.2022	309 32
Verified by	I bound by
Shivani Kumari Singh	Issued by Umesh Das
Authorized Signatory	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & **Environmental Engineering Laboratory**

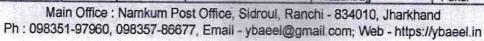
Branch Office : - Jamshedpur

MIRCHINENT

Dhanbad

Hazaribag









Accredited by: Certified by:

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	J. W.W.	T C 4 0	3 2 2 2		principal princi
Discipline Chemical	Group	Water	Sample Descrip		0 0 1 6 3 5 F
Report Release Date	30th September			otion	Residue & Contaminants in Water
W. Order/ JSPCB App. No.	3030005781	, 2022	Report ID	10 m	YBAEEL-220920-114052- GW02
		0.857	Work Order Dat	e	18.12.2021
Type of Industry(if any) Report Issue to	Thermal Power	Plant	Job code/ Ref. r	10.	YBAEEL/WA/L/R/Sep-22/02
		ur, PGCILS, Kandra	- 0324UZ, Jnarkh	land.	
Sampling Data		ai, i Goilo, Railula	113	Community and the	
	24/09/2022		Mode of sample	Community and the	By YBAEEL Team
Sampling Protocol	24/09/2022 IS: 3025 (Part-1) 1987, R-2003	113	Community and the	
Sampling Protocol Sampling Location	24/09/2022) 1987, R-2003	Mode of sample Sample Code	collection	220926-GW-E02
Sampling Date Sampling Protocol Sampling Location Sample pkg. Condition	24/09/2022 IS : 3025 (Part-1 Padampur Bore) 1987, R-2003 well	Mode of sample Sample Code Sampling Source	collection	220926-GW-E02 Ground Water
Sampling Protocol Sampling Location	24/09/2022 IS: 3025 (Part-1) 1987, R-2003 well	Mode of sample Sample Code	collection	220926-GW-E02

SI	Parameter	Test Method	Units	MU %	Results	
1.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	- 1000000			Limits
2.	Copper (as Cu)	AFRA 3114 B 23" edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.01-No relaxation
2		APHA 3111 B 23rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.05-1.5
0.	Iron (as Fe)	APHA 3111 B 23rd edition 2017	. mg/l	2.34	0.13	
4.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	10.84		1.0-No relaxation
5.	Cadmium (as Cd)	APHA 3111 B 23rd edition 2017			BDL (MDL 0.02)	0.01-No relaxation
	Mercury (as Hg)	ADUA 2442 D 2011	mg/l	5.0	BDL (MDL 0.02)	0.003-No relaxation
-	Chromium (as Cr)	APHA 3112 B 23rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001-No relaxation
,		APHA 3111 B 23rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05-No relaxation
	Nickel (as Ni)	APHA 3111 B 23rd edition 2017	mg/l x	13.72	0.17	
9.	Cobalt (Co)	APHA 3111 B 23rd edition 2017				0.02-No relaxation
	THE RESERVE OF THE SERVE	Control of the Contro	mg/l	28.33	BDL (MDL 0.03)	Par Maria

Limit is specified as IS 10500; 2021 Abbreviation MOL: Minimum detection limit, BOL: 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 Jurisdict Remarks Sample complies with prescribed limits.

Sample Drawn By - Angad Munda

THE STATE OF THE S 30.09.2022 Tested by Verified & Issued by Shivani Kumari Singh **Umesh Das** (Lab Analyst) **Authorized Signatory**

> Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

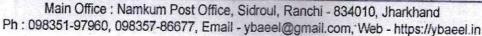
Branch Office : - | Jamshedpur

Dhanbad

Hazaribag

Pakur











Accredited by: Certified by:-

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline Chemical	Group	Water	Sample Descrip	tion	Residue & Co	ontaminants in Water	
Report Release Date	30th September	er, 2022	Report ID	130 3 Km	YBAEEL-22	0920-114052- GW02	
W. Order/ JSPCB App. No.	3030005781		Work Order Dat	e	18.12.2021		
Type of Industry(If any)	Thermal Power	er Plant	Job code/ Ref.	10.	YBAEELWA	A/L/R/Sep-22/02	
Report Issue to Sampling Date		Power & Natural Res pur, PGCILS, Kandra			By YBAEEL	Team	
Sampling Protocol		t-1) 1987, R-2003	Sample Code		220926-GW		
Sampling Location	Padampur Bo		Sampling Source	e	Ground Wa	ter	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity		1000 ml		
Meteorological Cond. of Field	W.C Clear	- ARI **	RH % - 66		Temp 30	°C	
Sample receipt Date	26/09/2022	Analysis Started on	26/09/2022	Analysis com	pleted on	30/09/2022	

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

SI	Parameter	Test Method	Units	MU %	Results	Limits	
1.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l	120	BDL (MDL 0.02)	0.03-0.2	

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

Limit is specified as	IS 10500: 2021
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.
A the residence of the sale.	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By - Angad Munda

Juani 9.2022	36[3]42
Tested by	Verified & Issued by
Shivani Kumari Singh	Umesh Das
(Lab Analyst)	. Authorized Signatory

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

MINISTER BULLETI

Branch Office: - Jamshedpur Dhanbad Hazaribag Pakur

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in







ENCORAL R

Accredited by: Certified by:

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique L	ab Report) No.	4060 E	TC	IAIOI	2 2 2 2 2 1		Ville:					1700	
	Biological .	Group		iter	3 2 2 2	0 0 0	0	0	1	6	1	7	F
Report Relea	and the second s	29th Septemb		itei	Sample Descri	ption	Grou	ind Wa	iter			in it	
	CB App. No.		er, ZUZZ		Report ID		YBA	EEL-22	20920)-114(052- 0	SW02	
		3030005781	500		Work Order Date	te	The Water State of the State of	2.2021		(E.)	124		
Type of Indus Report Issue		Thermal Pow	er Plant		Job code/ Ref.	no.		EEL/W	A /1 18	NC	22/0/		
	N _{Ber}	Vill Padam	pur, PGCII	LS, Kandra -	ources Ltd. - 832402, Jharkhai	nd.				SEL.	EM		
Sampling Date	· roks	Vill Padam	ipur, PGCII	LS, Kandra -	- 832402, Jharkhai			avil 1		S SAL	Table.		
		Vill Padam 24/09/2022	ipur, PGCII	LS, Kandra -	- 832402, Jharkhai de of sample collec		By YE	BAEEL	Tear	n	12/1		100
Sampling Prof	tocol	Vill Padam 24/09/2022 IS: 1622:1982	pur, PGCII 2, R - 2019	LS, Kandra - Mo Sai	- 832402, Jharkhai de of sample collec mple Code			BAEEL 26-GW-		127			M
Sampling Prot Sampling Loc	tocol ation	Vill Padam 24/09/2022 IS : 1622:1982 Padampur Bo	pur, PGCII 2, R - 2019 re Well	LS, Kandra - Mo Sai Sai	- 832402, Jharkhai de of sample collec		22092	26-GW-	E02	127	TOWN.		W
Sampling Prot Sampling Loc Sample pkg, C	ation	Vill Padam 24/09/2022 IS: 1622:1982	pur, PGCII 2, R - 2019 re Well	LS, Kandra - Mo Sar Sar	- 832402, Jharkhai de of sample collec mple Code mpling Source		22092 Groun	6-GW- nd Wat	E02	127	EW.		
Sampling Date Sampling Prof Sampling Loc Sample pkg. C Meteorologica Sample receip	tocol ation condition I Cond. of Field	Vill Padam 24/09/2022 IS : 1622:1982 Padampur Bo	pur, PGCII 2, R - 2019 re Well	LS, Kandra - Mo Sai Sai Sar	- 832402, Jharkhai de of sample collec mple Code		22092 Grour 250 m	6-GW- nd Wat	E02 er	127		w(0)	

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

SI	Parameter	Test Method	10.00		
1	Total coliform		Units	Results	Limits
^.		APHA 9222B, 23rd Edition 2017	cfu/100 ml	Absent	ENVIOLE COLUMN
2.	Fecal coliform	APHA 9222D, 23rd Edition 2017	cfu/100 m/	Absent	Shall not to be
3.	Ecoli	APHA 9222H, 23rd Edition 2017		A A A	Detectable in any 100 ml
	480	**************************************	cfu/100 ml	Absent	Sample

Limit is specified as	IS 10500; 2012
Abbreviation	MDL: Minimum detection limit RDV: Release detection limit
nv. Condition of Lab	1 C1.8 / C 1.1 MPN/100 tnl denotes that the processes washability of the control
position of Lab	
pecific contractual notes	
	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 feet 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 involced amount.
美国医创新。 医外角管	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

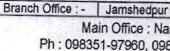
Sample Drawn By

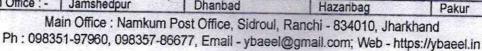
Angad Munda

Madhuri Sinta	Wheeh Camus 9 9 2022 Verified & Issued by
Tested by	18 9 2022
Madhuri Sinha	- Verified & Issued by
(Lab Analyst)	Mukesh Kumar
(Authorized Signatory

Authorized Signatory Microbiological Section Yugantar Bharati Analytical &

Environmental Engineering Laboratory Dhanbad



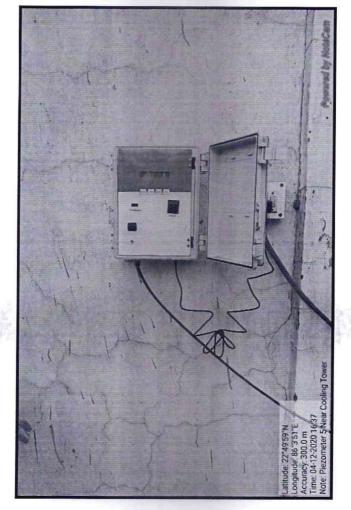




Piezometer At Plant premises









YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: -

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB)

ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	NVT	T C 4 0	3 2 2 2	2 0 0 0	0 0 1 6 3 0 F
Discipline Chemical	Group	Water	Sample Descri	ption	Surface Water
Report Release Date	30th September	r, 2022	Report ID		YBAEEL-220920-114052- SW01
W. Order/ JSPCB App. No.	3030005781		Work Order Da	ite	18.12.2021
Type of Industry(if any)	Thermal Power	Plant	Job code/ Ref.	no.	YBAEEL/WA/L/C/Sep-22/06
ACTIVE TO A	and the second second	Power & Natural Res our, PGCILS, Kandra		hand	
Sampling Date	24/09/2022	an, r ooico, nanara			By YBAEEL Team
Sampling Date Sampling Protocol	24/09/2022	1) 1987, R-2003	Mode of sample Sample Code		By YBAEEL Team 220926-SW-E01
	24/09/2022	1) 1987, R-2003	Mode of sampl	le collection	
Sampling Protocol Sampling Location	24/09/2022 IS: 3025 (Part-	1) 1987, R-2003 d	Mode of sample Sample Code	le collection	220926-SW-E01
Sampling Protocol	24/09/2022 IS: 3025 (Part- Srirampur Pone	1) 1987, R-2003 d	Mode of sampl Sample Code Sampling Sour	le collection	220926-SW-E01 Surface Water

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	На	1.77	6.88	6.5-8.5
2,	Colour	IS 3025 (P-04):1983	Hazen		20	
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	425.0	
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	136.0	
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	190.0	
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	234.0	and the second second
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	
8.	Chloride (as CI)	IS 3025 (P-32):2003	\mg/l	3.41	15.5	
9.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	12.22	0.8	
10.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rdedition 2017	mg/l	11.33	0.99	Paragraph Committee
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	50.5	
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B : 2017	mg/l	1.90	15.49	24 TO 10 TO
13.	Sodium (as Na+)	APHA 3111 B 23rd edition 2017	mg/l	16.98	16.0	
14.	Potassium (as K+)	APHA 3111 B 23rd edition 2017	mg/l	9.21	3.0	

Limit is specified as	LOSD 7/0/CS 954 October 2000
	G.S.R. 742 (E) 25* September, 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
AL TIME	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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TO THE STATE OF TH	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 compiles with prescribed limits.

Sample Drawn By Tested By Angad Munda

Akash Khalkho (Lab Analyst)

\$500,09,2022	7 0 19 12 2 -
Verified by	- Issued by
Shivani Kumari Singh	Umesh-Das
Authorized Signatory	Authorized Signatory

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



Branch Office: - Jamshedpur Dhanbad Hazaribag Pakur

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in





YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



Test Certificate

Discipline Chemical	Group Water	Sample Description	Surface Water
Report Release Date	30th September, 2022	Report ID	YBAEEL-220920-114052- SW01
W. Order/ JSPCB App. No.	3030005781	Work Order Date	18.12.2021
Type of Industry(If any)	Thermal Power Plant	Job code/ Ref. no.	YBAEEL/WA/L/C/Sep-22/06
Sampling Date	M/s Adhunik Power & Natural VIII Padampur, PGCILS, Kan 24/09/2022	dra – 832402, Jharkhand.	TRU SERVER SERVER
		Mode of sample collection	By YBAEEL Team
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code	220926-SW-E01
			22U320-344-EU1
	Srirampur Pond		Surface Water
Sampling Location		Sampling Source	Surface Water
Sampling Location Sample pkg. Condition Meteorological Cond. of Field	Srirampur Pond		

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002			PART CONTRACTOR OF THE PART OF	
2.	Taste	IS 3025 (P-07):2002			Agree.	
3.	Cyanide (as CN-)	IS 3025 (P-27)	mg/l		BDL (MDL 1.0)	

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
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THE RESERVE	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 Tested By

ISO 45001:2018

Angad Munda

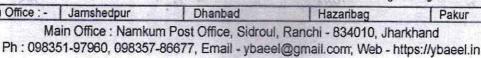
Akash Khalkho (Lab Analyst)

Jan. 19. 2022	32/01/2
Verified by	Issued by
Shivani Kumari Singh	Umesh Das
Authorized Signatory	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & **Environmental Engineering Laboratory**

WANTAR SHARATA

Branch Office : - Jamshedpur Hazaribag







Accredited by: -Certified by:

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	T C 4 0	3 2 2 2 0 0 0			
Discipline Chemical	Group Water	Sample Description	0 0 1 6 3 6 F		
Report Release Date	30th September, 2022		Residue & Contaminants in Water		
W. Order/ JSPCB App. No.	3030005781	Report ID	YBAEEL-220920-114052- SW01		
		Work Order Date	18.12.2021		
Type of Industry(if any) Report Issue to	Thermal Power Plant	Job code/ Ref. no.	YBAEEL/WA/L/R/Sep-22/02		
Sampling Date	24/09/2022	Mode of sample collection	By YBAFFI Team		
Sampling Protocol			By YBAEEL Team		
	IS: 3025 (Part-1) 1987, R-2003	Sample Code	220926-SW-E01		
Sampling Location			220926-SW-E01		
	Srirampur Pond	Sampling Source	220926-SW-E01 Surface Water		
Sample pkg. Condition	Srirampur Pond Sealed Pack in PP Bottle	Sampling Source	Surface Water		
Sampling Location Sample pkg. Condition Meteorological Cond. of Field					

SI	Parameter	Test Method	Units	MU %	Results	1000
1.	Arsenic (as As)	APHA 3114 B 23rd edition 2017				Limits
2.	Copper (as Cu)	APHA 3111 B 23rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	
3.	Iron (as Fe)	ADUA 2444 D 22d - Util D247	mg/l	11.11	BDL (MDL 0.01)	
4.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	2.34	0.22	
5.	Cadmium (as Cd)	APHA 3111 B 23rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	
3.		APHA 3111 B 23rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	
7.	Mercury (as Hg)	APHA 3112 B 23rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	
	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	
	Nickel (as Ni)	APHA 3111 B 23rd edition 2017	mg/l v	13.72	0.04	•
9.	Cobalt (Co)	APHA 3111 B 23rd edition 2017	mg/l	28.33		
-	12 多 型 基	2000011	111301	20,00	BDL (MDL 0.03)	- A1

Limit is specified as	End of Report*****
Abbreviation	MDL: Minimum detection limit, BDL: Below detection limit,
Env. Condition of Lab	Taberator is maintained account mile, DUC, Delow detection limit.
Specific contractual notes	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). All values are expressed in as unit and control of the second secon
	The reliable and expression at pour pour pour pour pour pour pour pour
	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.
A CONTRACTOR OF THE PARTY OF TH	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	The state of the s

Sample Drawn By

50.09.2022	30/0/2 2
Tested by	Verified & Issued by
Shivani Kumari Singh (Lab Analyst)	Umesh Das
	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

MEANTAR BRANCE

Branch Office : -Jamshedpur Dhanbad Pakur









Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline Chemical	Group	Water	Sample Descrip	otion	Residue & Co	ontaminants in Water
Report Release Date	30th Septembe	r, 2022	Report ID	NY W	YBAEEL-22	0920-114052- SW01
W. Order/ JSPCB App. No.	3030005781		Work Order Date		18.12.2021	
Type of Industry(If any)	Thermal Powe	r Plant	Job code/ Ref.	no.	YBAEEL/WA/L/R/Sep-22/02	
Report Issue to Sampling Date		Power & Natural Res pur, PGCILS, Kandra	- 832402, Jharki		By YBAEEL	Team
Sampling Protocol		-1) 1987, R-2003			220926-SW-	
Sampling Location		Srirampur Pond		20	Surface Wa	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantit	y	1000 ml	STAL TO
Meteorological Cond. of Field	W.C Clear	THE FAMILY	RH % - 66		Temp 29%	
Sample receipt Date	26/09/2022	Analysis Started on	26/09/2022	Analysis com	And the second second	30/09/2022

sessesTott Require sesses

SI Paramete		Test Method	Units	MU %	Results	Limits
1. Aluminiur	n (as Al)	IS 3025 (P-55):2003	mg/l	-	BDL (MDL 0.02)	F. L. LENDING

Limit is specified as	water the state of
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 (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.
10 C 19 C	This report cannot be reproduced, except when in full, without the written permission of the CEO.
100	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 Junisdiction.
Remarks	

Sample Drawn By - Angad Munda

ISO 45001:2018

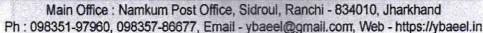
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Tested by	Verified & Issued by
Shivani Kuman Singh	Umesh Das
(Lab Analyst)	Authorized Signatory

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

NOW THE THURSDAY

Branch Office :- Jamshedpur | Dhanbad | Hazaribag





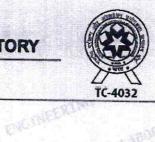


YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by. -Certified by:-

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	TC4	0 3 2 2 2 0 0	0 0 0 1 1 0 1 1 0 1 5
Discipline Biological .	Group Water	Sample Description	Surface Water
Report Release Date	30th September, 2022	Report ID	YBAEEL-220920-114052- SW01
W. Order/ JSPCB App. No.	3030005781	Work Order Date	18.12.2021
Type of Industry(If any)	Thermal Power Plant	Job code/ Ref. no.	YBAEEL/WA/L/M/Sep-22/04
Sampling Date	24/09/2022	andra – 832402, Jharkhand.	Ru VDAEEL Toom
		Mode of sample collection	By YBAEEL Team
Sampling Protocol	IS: 1622:1982, R - 2019	Sample Code	220926-SW-E01
Sampling Location	Srirampur Pond	Sampling Source	Surface Water
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity	
Meteorological Cond. of Field	W.C Clear	RH % - 66	250 ml
Sample receipt Date	26/09/2022 Analysis Star		Temp 29°C

SI	Parameter	Test Method	Units	Results	l lando.
1.	Total coliform	APHA 9221B 23rd Edition 2017	MPN/100 ml	2400	Limits
2.	Fecal coliform	APHA 9221E 23rd Edition 2017		No.	Service Town
O. C.		OF THE 9221E 23" Edition 201/	MPN/100 ml	2400	2500

Limit is specified as	G.S.R. 742 (E) 25° September, 2000.
Abbreviation	MDL: Minimum detection limit BDI: Below detection limit
	<1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the treet.
Env. Condition of Lab	Laboratory is maintaining. Temperature 27 + 20C and Relative Users to 55. 50V in all the desired sample.
Specific contractual notes	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). 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.
1000	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 compiles with prescribed limit.

Sample Drawn By

Moolluin Sinha	Mukech Kursus 30- 9- 2022
Tested by	- Verified & Issued by
Madhuri Sinha	Mukesh Kumar
(Lab Analyst)	Authorized Signatory

Authorized Signatory Microbiological Section Yugantar Bharati Analytical & Environmental Engineering Laborators

MONTH CHARACT

Branch Office : -Jamshedpur Hazaribag

Pakur



ICA)

Dhanbad

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



Accredited by: -NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018 Certified by:-





Test Certificate

ULR (Unique Lab Report) No.	. 404	TC	4 0	3 2	2 2	101010	10	Inl	1	2	2	4	-
Discipline Chemical	Group	Wate	er	Sample	Descrip	flon	S	urface W	ator	0	3	1 1	F
Report Release Date 30th September, 2022				Report	200	YBAEEL-220920-114052- SW02					12		
W. Order/ JSPCB App. No.	3030005781	Sacrat Facility By	TAIL S		rder Date	• 1244	_	.12.2021			1994	0110	-
Type of Industry(If any)	Thermal Pow	ver Plant		Job coo	le/ Ref. n	10.		BAEELM	/Δ/Ι	CIS	n-22/0	6	
Sampling Date	Vill Padan 24/09/2022	yryka ^{pa}		100	10.5		By	YBAEE	L Te	am			N. Fr
	24/09/2022	ATTEN.		Mode of	sample	collection	By	YBAEE	L Te	am		Light	M
Sampling Protocol	IS: 3025 (Par	rt-1) 1987, R	-2003	Sample	Code		22	220926-SW-E02					
Sampling Location	Padampur Po	ond		Samplin	g Sourc	e	Su	Surface Water			T .		
Sample pkg. Condition	Sealed Pack	in PP Bottle		Sample Quantity				3000 ml					
Meteorological Cond. of Field	W.C Clear		RH % - 66				Temp 30°C						
meteorological cond. of Field	I st.o. Olcai			1 1 1 1 1 1 1 1 1	10	The second secon							

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1,77	7.20	6.5-8.5
2,	Colour	IS 3025 (P-04):1983	Hazen		15.0	energy and the state of the state of
3.	Conductivity	IS 3025 (P-14):2013	us/cm	1.90	418.0	
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	118.0	
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	126.0	
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	228.0	
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	
8.	Chloride (as CI)	IS 3025 (P-32):2003	√mg/l	3.41	38.5	
9.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	12.22	0.8	A PAGE
10.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rdedition 2017	mg/l	11.33	1,18	
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	28.0	
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B: 2017	mg/l	1.90	13.61	
13.	Sodium (as Na+)	APHA 3111 B 23rd edition 2017	mg/l	16.98	30.0	
14.	Potassium (as K+)	APHA 3111 B 23rd edition 2017	mg/l	9.21	3.0	

Limit is specified as	G.S.R. 742 (E) 25° September, 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 second second	The samples collected shall be desired and a first first 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.
INUITAL KS	Sample complies with prescribed limits.
Sample Drawn By . Tested By .	Angad Munda Akash Khalkho (Lab Analyst)
	的复数形式 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基

50009,2022	301912
Verified by	Issued by
Shivani Kumari Singh	Umesh Das
Authorized Signatory	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & **Environmental Engineering Laboratory**



Branch Office : -Jamshedpur Dhanbad







Certified by:-

Accredited by: - | Jharkhand State Pollution Control Board (JSPCB)

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

ULR (Unique Lab Report) No.	E 190	T C 4 0	3 2 2	2 0 0 0	Intol	1 6 2 4 1 5
Discipline Chemical	Group	Water	Sample Descr	ription	Surface M	1 0 3 1 1 1
Report Release Date	30th Septemb	per, 2022	Report ID	paron	Surface W	
W. Order/ JSPCB App. No.	3030005781					20920-114052- SW02
Type of Industry(If any)	w con	PI .	Work Order D		18.12.2021	
Report Issue to	Thermal Pov	ver Plant	Job code/ Ref	f. no.	YBAEELN	VA/L/C/Sep-22/06
Complian Data	Vill Padan	k Power & Natural Res npur, PGCILS, Kandra	ources Ltd. - 832402, Jharl	khand.	TRUNGTE	ONGTHER
Sampling Date	Vill Padan	npur, PGCILS, Kandra	- 832402, Jharl		LEGISHE IN	PAGINETS
	VIII Padan 24/09/2022	npur, PGCILS, Kandra	- 832402, Jhari Mode of samp		By YBAEE	L Team
Sampling Protocol	VIII Padan 24/09/2022 IS: 3025 (Par	npur, PGCILS, Kandra t-1) 1987, R-2003	- 832402, Jhari Mode of samp Sample Code	ele collection	By YBAEE 220926-SW	
Sampling Protocol Sampling Location	VIII Padan 24/09/2022 IS: 3025 (Par Padampur Po	npur, PGCILS, Kandra t-1) 1987, R-2003 and	- 832402, Jhari Mode of samp	ele collection	The state of the state of	-E02
Sampling Protocol Sampling Location Sample pkg. Condition	VIII Padan 24/09/2022 IS: 3025 (Par	npur, PGCILS, Kandra t-1) 1987, R-2003 and	- 832402, Jhari Mode of samp Sample Code	ple collection	220926-SW Surface Wa	-E02
Sampling Protocol Sampling Location	VIII Padan 24/09/2022 IS: 3025 (Par Padampur Po	npur, PGCILS, Kandra t-1) 1987, R-2003 and	- 832402, Jhari Mode of samp Sample Code Sampling Soul	ple collection	220926-SW	-E02 oter

MU %		
DATE V	Danulta	
WO 79	Results	Limits
	Agree.	
**	Agree.	AT A DOMESTIC
-	24	- Agree.

Limit is specified as	Cita of Kepott
Abbreviation	MDL: Minimum detection limit, BDL: Below detection limit.
Env. Condition of Lab	Laboratory is recircular in the DC. Below detection smit.
Specific contractual notes	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
	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 innue of the next feet.
	and additing of the advoiding is littled to the involced anythint
Remarks	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	

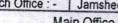
Sample Drawn By Tested By

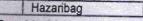
Angad Munda

Akash Khalkho (Lab Analyst)

30.09,2022	309132
Verified by	Issued by
Shivani Kumari Singh Authorized Signatory	Umesh Das
Additionated Signatury	Authorized Signatory

Authorized Signatory AND THE Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory Branch Office : -Jamshedpur Dhanbad Pakur





MENTAR MERALE







Accredited by: -Certified by:-

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

Discipline Chemical	Group		Samula Danad	2 0 0 0	0 0 1 6 3 7
Report Release Date	30th Septem		Sample Descri	ption	Residue & Contaminants in Water
W. Order/ JSPCB App. No.	3030005781		Report ID		YBAEEL-220920-114052- SW0
Type of Industry(If any)			Work Order Da	AND SOCIETY OF THE PARTY OF THE	18.12.2021
Report Issue to	Thermal Pov	ver Plant	Job code/ Ref.	no.	YBAEEL/WA/L/R/Sep-22/02
Sampling Date	VIII Padar	k Power & Natural Res	ources Ltd. - 832402, Jharki	nand.	And the second
	24/09/2022	npur, PGCILS, Kandra	- 832402, Jharki		Ry VPACEL T
Sampling Protocol	24/09/2022	npur, PGCILS, Kandra	- 832402, Jharki Mode of sample		By YBAEEL Team
Sampling Protocol Sampling Location	24/09/2022 IS: 3025 (Par	npur, PGCILS, Kandra rt-1) 1987, R-2003	- 832402, Jharki Mode of sample Sample Code	collection	220926-SW-E02
Sampling Protocol Sampling Location	24/09/2022 IS: 3025 (Par Padampur Po	npur, PGCILS, Kandra rt-1) 1987, R-2003 ond	- 832402, Jharki Mode of sample Sample Code Sampling Source	collection	The second secon
Sampling Date Sampling Protocol Sampling Location Sample pkg. Condition Meteorological Cond. of Field	24/09/2022 IS: 3025 (Par Padampur Po Sealed Pack	npur, PGCILS, Kandra rt-1) 1987, R-2003 ond	- 832402, Jharki Mode of sample Sample Code Sampling Source Sample Quantity	collection	220926-SW-E02
Sampling Protocol Sampling Location	24/09/2022 IS: 3025 (Par Padampur Po	npur, PGCILS, Kandra rt-1) 1987, R-2003 ond	- 832402, Jharki Mode of sample Sample Code Sampling Source	collection	220926-SW-E02 Surface Water

SI	Parameter	Test Method	I I alfa-	2011.01	THE PARTY OF THE P	
	Arsenic (as As)		Units	MU %	Results	Limits
2.		APHA 3114 B 23rd edition 2017	mg/l	10,34	BDL (MDL 0.003)	Little
_	Copper (as Cu)	APHA 3111 B 23rd edition 2017	mg/l	11.11		10 M 10 M
.	Iron (as Fe)	APHA 3111 B 23rd edition 2017			BDL (MDL 0.01)	
	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	2.34	0.37	
	Cadmium (as Cd)	APHA 3111 B 23rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	
	Mercury (as Hg)	ADUA 2440 P 23 Bolton 2017	mg/l	5.0	BDL (MDL 0.02)	
	Chromium (as Cr)	APHA 3112 B 23rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	*
3	Alleled (Alle	APHA 3111 B 23rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	
-	Nickel (as NI)	APHA 3111 B 23rd edition 2017	mg/l	13.72		- Maria
	Cobalt (Co)	APHA 3111 B 23rd edition 2017			0.10	
+		The second secon	mg/l	28,33	BDL (MDL 0.03)	the same of the sa

Limit is specified as	Citi di Keport
Abbreviation	MO Minimum datasis
Env. Condition of Lab	MDL : Minimum detection limit, BDL : Below detection limit.
Specific contractual notes	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196.1966 (C). All values are expressed in as unit and results listed refer only to the best of
ALCOHOL:	This report, in full or in part, shall not be used for advertising a control sample and applicable parameter in Lab's Permanent Facility
	The samples collected shall be destroyed after 15 days from the written permission of the CEO.
	The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	are subjected to the Ranch Junsdiction.

Sample Drawn By Angad Munda

TAM - 00	A STATE OF THE STA
500 Ani 19.2022	3913128
Tested by Shivani Kumari Singh	Verified & Issued by
(Lab Analyst)	Urnesh Das Authorized Signatory

RING LABORATORY

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

Branch Office : -Jamshedpur

Dhanbad







JHARRHAND State Pollution

Accredited by: -Certified by:-

Jharkhand State Pollution Control Board (JSPCB)

d by: - An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline	Chemical	Group	Water	Sample Descri	ntion	Pacidua P C	antonia anta la 186 d			
Report Releas	se Date	Callipio				Residue & Contaminants in V				
W. Order/ JSP		3030005781		Work Order Da		YBAEEL-220920-114052-				
Type of Indus		Thermal Pow	er Plant	Job code/ Ref.		18.12.2021	A/L/R/Sep-22/02			
	Line.	M/s Adhunik	Power & Natural Res	ources I td.	41 34					
Sampling Date	NE LANDRO	Vill Padam	pur, PGCILS, Kandra	- 832402, Jhark		RUMENT !	e e e			
- CONT CONT. CO.		Vill Padam 24/09/2022	pur, PGCILS, Kandra	- 832402, Jhark		By YBAEEL	Team			
Sampling Prot	tocol	Vill Padam 24/09/2022	pur, PGCILS, Kandra t-1) 1987, R-2003	- 832402, Jhark		By YBAEEL 220926-SW-				
Sampling Prot Sampling Loca	tocol ation	Vill Padam 24/09/2022	pur, PGCILS, Kandra t-1) 1987, R-2003	- 832402, Jhark Mode of sample Sample Code	a collection	220926-SW-	E02			
Sampling Date Sampling Prot Sampling Loca Sample pkg. C	tocol ation	Vill Padam 24/09/2022 IS: 3025 (Part	t-1) 1987, R-2003	- 832402, Jhark Mode of sample Sample Code Sampling Source	e collection	220926-SW- Surface Wat	E02			
Sampling Prot Sampling Loca Sample pkg. C	tocol ation	Vill Padam 24/09/2022 IS: 3025 (Part Padampur Po	t-1) 1987, R-2003	- 832402, Jhark Mode of sample Sample Code	e collection	220926-SW-	E02 er			

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

SI		Test Method	Units MU %		Results	Limits
<u>l</u> 1.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/I	-	BDL (MDL 0.02)	
Service of the last	7/4		SSEnd of Danas	.000000		

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 record is full as in and ability to the control of the
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
THE PARTY NAMED IN	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

Jan 09.2022	39.3102
Tested by	Verified & Issued by
Shivani Kumari Singh	Umesh Das
(Lab Analyst)	Authorized Signatory

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

SERVICE THEFT



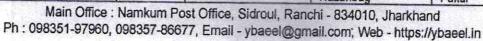
Jamshedpur

Dhanbad

Hazaribag

D.I.













Accredited by: -NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018 Certified by: -

Test Certificate

ULR (Unique Lab Report) No.		T	C	4	0	3 2	12	12	10	10	T	T	0	0	1	1 0	2	4	To	TE
Discipline Biological .	Group	100	Wat	er	- 1	S	mple	Desc	rintio	n		Su	rfac	e Wa	tor	10	, 1	-1	1 3	1
Report Release Date	30th Septembe	er, 202	2			mental and the same	port l						-	3 9 7		0-11	111	52	SW	12
W. Order/ JSPCB App. No.	3030005781		9				ork O	August 1	ate	G 547			12.2	-	.032	0-1	170	J2-	344	12
Type of Industry(if any)	Thermal Powe	r Plan	rt 💮				b cod					-		LW	AIII	MIC	-	22/1	14	
Sampling Date	M/s Adhunik Vill Padam 24/09/2022	Powe	GCIL	S, K	andra	- 8324	02, JI	300	Telle	8		l a			N. P.			EN.		
Sampling Protocol	IS: 1622:1982	R - 20	110		2 4 L. D.E.	ode of		COII	еспог		By YBAEEL Team					100				
Sampling Location	Padampur Por	A Links	010			-	ple Code pling Source			220926-SW-E02 Surface Water										
Sample pkg. Condition			Sample Quantity				250 ml													
Meteorological Cond. of Field	W.C Clear				100	RH % - 66				Joseph Committee		200	•		_			1916		
Sample receipt Date	26/09/2022	An	alvsl	s Star	ted on		9/2022	,	10	ample			10000	300	•	630			202	

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

ŞI	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23rd Edition 2017	MPN/100 ml	1600	AN 2
2.	Fecal coliform	APHA 9221E 23rd Edition 2017	MPN/100 ml		
W.BO	A-mi	ATTIA VEETE 23 - Edition 2017	MPN/100 ml	1600	2500

Limit is specified as	G.S.R. 742 (E) 25th September, 2000
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit,
4.4	<1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested as a line.
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 actual control of the c
	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
A THE PARTY OF THE	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless asserted after 7.
	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

Cumus 30-9-2022 Tested by Venfied & Issued by Madhuri Sinha Mukesh Kumar (Lab Analyst) Authorized Signatory

Authorized Signatory

Microbiological Section

Yugantar Election Analytical & Environmental Engineering Laboratory

Branch Office : - Jamshedpur

Dhanbad

Hazaribag Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



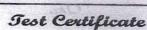


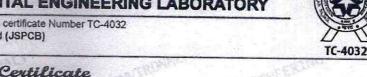


Accredited by: -

NABL accredited testing laboratory vide certificate Number TC-4032

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





ULR (Unique Lab Report) No.	TCI	4 0 3 2 2 2 0	0 0 0 0 1 6 2 2 5
Discipline Chemical .	Group Atmosphe	eric Pollution Sample Description	on Stationary Source Emission
Report Release Date	30th September, 2022	Report ID	YBAEEL-220920-114052-S2
W. Order/ JSPCB App. No.	3030005781	Work Order Date	18.12.2021
Type of Industry(If any) Report Issue to	Thermal Power Plant	Job code/ Ref. no.	
MINISTRATION .	M/s Adhunik Power & Na Vill Padampur, PGCILS	atural Resources Ltd. 5, Kandra – 832402, Jharkhand.	& CHATTAN
Sampling Period	23/09/2022	Mode of sample collection	D. VOLET, T
Sampling Protocol	IS: 11255 & CPCR Guideline (I ats/80/2013-14)		By TBAEEL leam
Meteorological Cond. of Field	W.C Clear	RH % - 67	Temp 32°C
Sample receipt Date 24/09/2022 Analysis Started			(HIII\/\).

ampling	As reported by	Clietomor	
Sampling port hole	Type of fuel lised		
Permanent		Coal	
Circular / RCC	-Total production Canacity	157 Ton/Hr. 263 MW	
Available	Height of Stack from ground level	275 mtr.	
Unit - II		4.2 mtr.	
90 mtr.		ESP ESP	
N/A	Total No. of Oven (if any)	N/A	
֡	Sampling port hole Permanent Circular / RCC Available Unit - II 90 mtr.	Sampling port hole Permanent Quantify of Fuel Used (During Sampling) Circular / RCC Total production Capacity Available Height of Stack from ground level Unit - II Inner Diameter of Stack 90 mtr. Pollution Controlling Device (if any)	

SI	Parameters	Test Method	7	I BRICA:		
1.	Stack gas Temperature		Units	MU %	Results	Limits
		IS 11255 (Part 3)2008	k	-	443.0	THE STATE OF
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s		26,23	
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm³/hr	7 BY	855775.8874	
3.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm³	2.12		
4.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm³	3.06	39.3	50
5.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012			930.0	600
5.	Carbon Monoxide (CO)		mg/Nm³	2.70	436.0	450
	ssion Rate	IS 13270:1992 (RA 2009)	%		BDL (MDL 0.2)	

1.	Particulate Matter (PM)	IS 11255 (Part 1)2009	kg/hr.	33.6	100001
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	kg/hr.	796.0	
3. Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	kg/hr.	373.11		

Limit is specified as	Environmental (Protection) Rule – 1986
Abbreviation	MDL : Minimum delection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 37 + 200 and Delate - 17 - 182 are
Specific contractual notes	All values are expressed in as unit and expressed the second relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
	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 nermicsion of the CCO.
A STATE OF THE STA	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 Junisdiction.
Remarks	Sample complies with prescribed limits, except parameter Sulphure Dioxide, Serial No. 4.
	The state of the s

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

Branch Office : -

munal	309122
Ox word 20-09-22 Verified by	Issued by
Sanjeev Kumar Singh	Umesh Das
Deputy Technical Manager	. Authorized Signatory

Authorized Signatory Atmospharic Pollution Yugantar Eharati Analytical & **Environmental Engineering Laboratory**

Dhanbad Hazaribag Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand





Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**



Accredited by: -Certified by:-

Jharkhand State Pollution Control Board (JSPCB)

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline Chemical	Group Atmospheric Pollution	5 5	
Report Release Date	The second of th	The page in the page	Stationary Source Emission
W. Order/ JSPCB App. No.	30th September, 2022	Report ID	YBAEEL-220920-114052-S2
Tune of lad	3030005781	Work Order Date	18.12,2021
Type of Industry(if any)	Thermal Power Plant	Job code/ Ref. no.	
Report Issue to	그 없는 물로 가득하다면 하다 그 살이 보면 하다 때 그리고 있다.		YBAEEL/WA/L/A/Sep-22/28
	M/s Adhunik Power & Natural Res	ources Ltd.	NATURE STATES
1.00 Marine	Vill Padampur, PGCILS, Kandra	- 832402, Jharkhand.	NAMES OF THE PARTY
Sampling Period	Vill Padampur, PGCILS, Kandra 23/09/2022	- 832402, Jharkhand.	D. VDATE .
Sampling Period Sampling Protocol	Vill Padampur, PGCILS, Kandra 23/09/2022	- 832402, Jharkhand.	By YBAEEL Team
Sampling Period Sampling Protocol	Vill Padampur, PGCILS, Kandra 23/09/2022 Mo IS: 11255 & CPCB Guideline (Lats/80/)	- 832402, Jharkhand. de of sample collection 2013-14)	By YBAEEL Team
Sampling Period	Vill Padampur, PGCILS, Kandra 23/09/2022 Mo IS: 11255 & CPCB Guideline (Lats/80/)	- 832402, Jharkhand. de of sample collection 2013-14) H % - 67	By YBAEEL Team Temp 32°C

As observed while sa	ampling	As reported by customer		
Platform	Sampling port hole	Type of fuel Used		
	Permanent	Quantity of Fuel Used (During Sampling)	Coal	
Stack Description (Shape & Material)	Circular / RCC	Total production Capacity	157 Ton/Hr.	
Sampling port	Available	Height of Stack from ground level	263 MW	
Stack Identification	Unit - II	Inner Diameter of Stack	275 mtr.	
Height of port hole from Ground level	90 mtr.	Pollution Controlling Device (if any)	4.2 mtr.	
Running Oven during sampling (if any)	N/A	Total No. of Oven (if any)	ESP	

Total No. of Oven (if any)

******Test Results ***** **Parameters Test Method** Units MU % Mercury (as Hg) Results Limits Lat's/80/2013-14 mg/Nm³ BDL (MDL 0.003) 0.03 ******End of Report*

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDI Abrigorom (* 10) ECONOMINA (* 1986)
Env. Condition of Lab	MDL Minimum detection limit, BDL Below detection limit.
	Laboratory is maintaining. Temperature 27.± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). All values are expressed in as unit and results listed refer only to the body of the control
	All values are expressed in as unit and results the desired 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 expect when it 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 decreased than 7 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 Junediction
Remarks	Sample complies with prescribed limits.

Sample Drawn By

- Angad Munda

Tested By

- Akash Khalkho (Lab Analyst)

20-09-2002	Jan 192 .
30-09-2001 Venfied by	3019132
Sanjeev Kumar Singh	- Issued by
Deputy Technical Manager	Urnesh Das
	Authorized Signatory

Authorized Signatory Atmospharic Pollution Yugantar Bharati Analytical & Environmental Engineering Laboratory

WEATAR BURNES

N/A

Branch Office : -Jamshedpur Dhanbad Hazaribag Pakur Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand





Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in

Adhunik Power & Natural Resource Limited

FLY ASH GENERATION & UTILIZATION FOR THE PERIOD OF APRIL 2022 TO September 2022

		Λch	Concret	ion and HA!					
-	-	ASII		ion and Util	ization		Mod	de of Ash Uti	lization
SI. No.	Months	Coal Consumed	Ash Contents of Coal (%)	Fly Ash Generation	Fly Ash Utilization	%age Utilization	In Making of Fly Ash Based bricks /Blocks /Tiles etc	In manufacturing of Portland Pozzolana Cement	Part replacement of cement in concrete
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	APRIL	212264.1	38.61	81957.94	66569.94	81.2%	6493.49	56528.09	3548.36
2	MAY	253516	46.57	118060.05		70.2%	4058.37	75643.70	
3	JUNE	223998.1	43.04	96408.52	81947.24	85.0%		Li Livini and Parket Livini an	3144.69
4	July	177268	44.66	79159.77	67285.81		3643.77	73444.90	4858.57
	August	236245.5			19-3-20-32	85.0%	1960.79	61244.83	4080.19
			39.44	93167.6		83.4%	1802.39	72883.32	3060.74
0	Sep	228920.8	46.32	106041.3	89956.42	84.8%	3193.78	82747.03	4015.61
	Total	1332212	43.11	574795.2	466352.61	81.6%	21152.574	422491 87	22709 16



YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

& ESWIED

Accredited by: - | Jharkhand State Pollution Control Board (JSPCB) Certified by:-

An ISO 9001:2015 & ISO 45001:2018

BHARATT





Discipline Chemical	Group Pollution & Environment	Sample Description		
Report Release Date	30th September, 2022	Sample Description Report ID	ASH	
	/. Order/ JSPCB App. No. 3030005781		YBAEEL-220920-114052- Se	
		Work Order Date	18.12.2021	
Type of Industry(If any) Report Issue to	Thermal Power Plant	YBAEEL/WA/L/S/Sep-22/01		
Sampling Date	24/09/2022	Mode of sample collection	ENG.	
ALCOHOL: A STATE OF	Vill Padampur, PGCILS, Kandr	a - 832402, Jharkhand.		
		By YBAEEL Team		
Sampling Professal			1 - 1 / Imme (GM:II)	
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code		
Sampling Location	IS: 3025 (Part-1) 1987, R-2003 Hopper	Sample Code	220926-S-E02	
	Hopper	Sample Code Sampling Source	220926-S-E02 Bottom Ash	
Sampling Location Sample pkg. Condition	Hopper Sealed Pack in Zipper Bag	Sample Code Sampling Source Sample Quantity	220926-S-E02	
Sampling Location	Hopper Sealed Pack in Zipper Bag	Sample Code Sampling Source Sample Quantity H % - 68	220926-S-E02 Bottom Ash	

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

SI	Parameter	Test Method	1	1 22	
1.	Iron (as Fe)		Units	MU%	Results
2.	Zinc (as Zn)	USEPA 3050 B :1996/APHA 3111 B	ppm	2.73	20.66
3.	Copper (as Cu)	USEPA 3050 B :1996/APHA 3111 B	ppm	4.44	0.21
4.	Lead (as Pb)	USEPA 3050 B :1996/APHA 3111 B	ppm	10.18	0.04
5.	Nickel (as Ni)	USEPA 3050 B :1996/APHA 3111 B	ppm	2.82	BDL (MDL 0.02)
6.	Cadmium (as Cd)	USEPA 3050 B :1996/APHA 3111 B	ppm	4.10	0.26
7.	Chromium (as Cr)	USEPA 3050 B :1996/APHA 3111 B	ppm	9.57	1.0
B	Arsenic (as As)	USEPA 3050 B :1996/APHA 3111 B	ppm	5.44	0.34
).	Mercury (Hg)	USEPA 3050 B :1996/APHA 3114 B	ppm		0.098
10.	Unburn Carbon	USEPA 3050 B :1996/APHA 3112 B	ppm		0.04
Market Market	Selenium (as Se)	IS 1727:1967	%		2.1
12	Colombin (as Se)	USEPA 3050 B :1996/APHA 3114 B	ppm	2 200	0.04

Limit is specified as	CANADA CONTRACTOR OF THE CONTR
Abbreviation	MDL: Minimum detection limit. BDL: Below detection limit.
nv. Condition of Lab	Laboratory is maintaining. Temperature 27 + 200 and Deliver a burnish of the control of the cont
pecific contractual	
iotes	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 exceeded by the country of the
	This report connected except when in full without the unities as male in the contract of the c
KP - E	The semants conscious stidil be destroyed after this date from the date of increase of the section.
	All disputes are subjected to the Ranchi Jurisdiction.
emarks	- Common Orion Out
nple Drawn By .	Angad Munda
	· 大大学、新文艺、新文学、新文学、新文学、大学、大学、新文学、新文学、新文学、新文学、
	· 国际自己的企业专家的主动的自己的特殊的企义。
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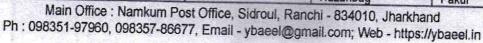
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CALIFORNIE CALIFORNIA	TON AICANT M. ANALYSTS.
Trani 9,2022	303182
Tested by Shivani Kumari Singh (Lab Analyst)	Verified & Issued by Umesh Das Authorized Signatory

Authorized Signatory Pollution & Environment Yugantar Bharati Analytical & Environmental Engineering Laboratory

Branch Office : - | Jamshedpur Dhanbad Hazaribag Pakur









YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

Accredited by: -Certified by: -

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No. Discipline Chemical	Group	Pollution & Environment	3 2 2 2 0 0	0 0 0 1 6 4 0 F
Daniel D. L. Tolladoll &		to the second of	Sample Description	Waste Water / Effluent Water
W. Order/ JSPCB App. No.	30th September, 2022		Report ID	YBAEEL-220920-114052- WW03
	3030005781		Work Order Date	18.12.2021
Type of Industry(if any) Report Issue to	Thermal Por	wer Plant	Job code/ Ref. no.	YBAEEL/WA/L/W/Sep-22/08
WITHER STREET	Vill Pada	nik Power & Natural Res ampur, PGCILS, Kandra	e – 832402, Jharkhand.	21760 STATES
WITH ENGINEERS	Vill Pada	ampur, PGCILS, Kandra	- 832402, Jharkhand.	
	24/09/2022	ampur, PGCILS, Kandra	- 832402, Jharkhand.	Rv YRAFFI Toom
Sampling Protocol	24/09/2022	ampur, PGCILS, Kandra	- 832402, Jharkhand. Mode of sample collection	By YBAEEL Team
Sampling Protocol	24/09/2022	ampur, PGCILS, Kandra	Mode of sample collection Sample Code	. 220926-WW-E03
Sampling Protocol Sampling Location	24/09/2022 IS: 3025 (P Ash Pond	ampur, PGCILS, Kandra art-1) 1987, R-2003	Mode of sample collection Sample Code Sampling Source	- bas the second of the second
Sampling Protocol Sampling Location Sample pkg. Condition	24/09/2022 IS: 3025 (P Ash Pond Sealed Paci	ampur, PGCILS, Kandra lart-1) 1987, R-2003 k in PP Bottle	Mode of sample collection Sample Code Sampling Source Sample Quantity	. 220926-WW-E03
Sampling Date Sampling Protocol Sampling Location Sample pkg. Condition Meteorological Cond. of Field Sample receipt Date	24/09/2022 IS: 3025 (P Ash Pond	ampur, PGCILS, Kandra lart-1) 1987, R-2003 k in PP Bottle	Mode of sample collection Sample Code Sampling Source	220926-WW-E03 Effluent Water

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

SI	Parameter	Test Method	Units	MU %	MR 1 - 10	
1.	pH value	IS 3025 (P-11):2002			Results	Limits
2.	Temperature	IS 3025 (P-09)	pH	2.53	8.36	6.5 – 8.5
3.	Total suspended solids		°C	1.55	29.0	
4.		IS 3025 (P-17):2012	mg/l	8.26	86.0	100
500	Oil and grease	IS 3025 (P-39):2003	mg/l	14.60	9,0	20.0
5.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/l	7.86	BDL (MDL 0.003)	
6.	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	_mg/l	7.14	BDL (MDL 0.02)	ALL STATE
7.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	6.26		
8.	Mercury (as Hg)	APHA 3112 B 23rd edition 2017			BDL (MDL 0.02)	
9.	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	25.0	BDL (MDL 0.003)	
		13 3023 (P-32):2003	mg/l	3.44	18.0	

Limit is specified as	******End of Report*****
Abbandari	Environmental (Protection) Rule – 1986.
Abbreviation	MDL: Minimum detection limit RDI. Below detection limit
Env. Condition of Lab	Laboratory is maintaining Temporature 27, 200 - 19
Specific contractual notes	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). All values are expressed in as unit and recults finded only and the state of
	This report, in full or in part, shall not be used for education or a first state and applicable parameter in Lab's Permanent Facility
	This report califord be reproduced, excent when in full without the wetter personal and the second s
	The samples conducted stidl DR destroyed after 15 days from the date of leave 11
Remarks	All disputes are subjected to the Ranchi Jurisdiction.
. willen no	Sample compiles with prescribed limits.

Sample Drawn By

Branch Office : -

Jamshedpur

30.09.202 2	30 9 3 2
Tested by	Verified & Issued by
Shivani Kumari Singh (Lab Analyst)	Umesh Das
	Authorized Signatory

Authorized Signatory Pollution & Environment Yugantar Bharati Analytical & Environmental Engineering Laboratory

GAN S GHAS



Dhanbad Hazaribag Pakur Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, 'Web - https://ybaeel.in



ISO 9001:2015 ISO 45001:2018

Adhunik Power & Natural Resource Limited (APNRL)

(Village-Padampur Block-Gamharia, District-Saraikela-Kharsawan, Jharkhand)

<u>Social performance report from April'2022 to September'2022</u>

Adhunik Power & Natural Resources Limited has always endeavored to achieve social development in the areas of community health, education, livelihood, infrastructure development and women empowerment. 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 worth mentioning that APNRL had executed the community development. The focus area wise developmental activities report is as follows:

HEALTH & SANITATION

1. <u>Health & Sanitation</u>: 24 X 7 ambulance facility has been providing to the villagers of peripheral village for better treatment. Nos. of villagers' availed ambulance facilitates following months.

				Stati	us of Referra	l Patients
Month	М	F	Children		T	
	IVI		M	M F Total No.	Village Covered	
April'22	16	15	0	0	31	
May'22	14	09	0	0	23	
June'22	8	16	1	0	25	Badahariharpur, Srirampur, Dumra,
July'22	7	17	0	0	24	Padampur , Kandra, Gamharia
Aug'22	8	11	1	3	23	
Sept.'22	6	11	1	1	19	

2. <u>Medical Facilities:</u> Provide free medical treatment at Dispensary, APNRL, Padampur. Nos. of villagers availed the medical facilities following months.

Status of Patients-

Month	М	F	Child	en	Total No.			
	IVI		M	F		Village Covered		
April'22	83	57	40	20	200			
May'22	127	65	22	23	237	Balidih, Badahariharpur, Srirampur,		
June'22	86	84	34	16	220	Dhatkidih, Padampur ,Pindrabera,		
July'22	79	92	33	10	214	Kandra, Gamharia		
Aug'22	169	74	42	26	311			
Sept.'22	107	94	35	36	272			

- 3. <u>Drinking Water Supply:</u> The drinking water provided to villagers through water tanker towards meeting the need of drinking water and other related water use during their social functions. 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 use(s) during water scarcity situation in villages.

The detailed status of drinking water supply is as below:

S. No.	Months	No. of Drinking Water Supply Services Provided through Water Tanker	Quantity of Supplied Water (in Liter)	Average Population Covered	Purpose
1	April'22	7	35000	1750	
2	May'22	15	75000	4000	Meeting the
3	June'22	6	30000	1500	need of
4	July'22	3	15000	750	drinking water
5	Aug'22	5	25000	1250	for the
6	Sept.'22	3	15000	750	villagers.

4. Eye check-up camp: Eye problem of cataract is an issue in area. CSR, department coordinated with Purnima Netralaya, Jamshedpur and the Eye check-up camp were organized on 13.5.2022 and 29.6.2022 at the OHC, Padampur and Chitrakoot Apartment, Gamharia on the

occasion of 20th death anniversary of Adhunik Group Founder Late



Mahadeo Prasad Agarwal. Total 148 persons from the various villages including APNRL employees

availed the check-up
Our
director Sri
Nirmal
Kumar
Agarwal has





inspected eye check-up camp along with Sri Arun Kumar Mishra-CEO, Sri Anil Kumar Soni-GM, Sri Rajesh Kumar Sharma-VP, Sri. S.K.Parvez-AGM, Sri Amal Baidya-GM etc.

5. Health Awareness Program: The Company has always been empowering the village women



through various training events to lead their life with sustainable social recognition. Every month We organized Health Awareness program in association with Anganwadi worker on nutrition & breast feeding at Anganwadi Center, Badahariharpur, Padampur. Women were participated in it.



Along with this, **Annaprashan program** was also organized for children of six months, in which children were fed complementary food with complete customs, women were given special information about this subject. **Godh bharai program**: The Company has always been empowering the village women through various training events to lead their life with sustainable social recognition. CSR-Department APNRL organized **Godh bharai** celebration at AWC for pregnant women to encourage the good health and healthy living through the nutrition education as the malnutrition is the main obstruction to the National Development. Through this event pregnant women were given information on the subject of diet, hygiene, vaccination, health check-up etc. Also it is prayed for good health and safe delivery of mother and child during pregnancy. A group of women came together to bless the pregnant woman and gave some items like thali, apple, banana, bangle, bindi, etc. to the pregnant woman.

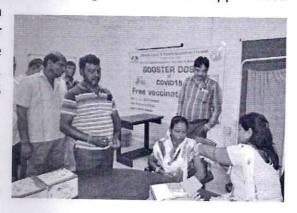
6. COVID-19 Booster Dose Vaccination Camp: Vaccination camp for covid-19 booster dose was



organized on 19.07.2022 and 30.8.2022 at Sankalp Bhawan, APNRL jointly by Adhunik Power and Natural Resources Limited, Padampur and Health Department, Saraikela-Kharsawan.

It is necessary to increase antibodies to fight corona virus, for this we need to take booster dose as well as need to be careful even after getting the vaccine because corona virus has started again, said by Shri Sachin Agarwal, APNRL during camp. Total 280 employees and villagers were vaccinated. The management of APNRL appreciated

the initiative taken by the CSR Department which facilitated the camp. Thanks to the media for covering this camp so that people can be honored about the importance of the vaccine. Our special thanks to Mr. Ranjit Kumar-HR, Mr. S M Khusru-Admin, Mr. Vikash Kumar Singh, Dr. G. P. Murmu and Ms. Shashi Lata Kumari -ANM, Ms. Meena Kumari-ANM and Mr. Dewashish Mahato-Data operator from Health Department, Gamharia who had actively accomplished the camp successfully.



7. 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 Badahariharpur from 02.08.2022, 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.

8. World Anti-Tobacco day 2022: World Anti-Tobacco Day was started because millions of

people die every year around the world due to tobacco use and abuse. World Health Organization (WHO) member states



introduced World No Tobacco Day (WNTD) in 1987. On the occasion of "World Anti-Tobacco day 2022", Adhunik Power & Natural Resources Limited, Padampur organized a Signature campaign to raise awareness among the people against bad effect of tobacco in human body. Signature campaign initiated at company campus by employees with message writing on display board.

EDUCATION

1. Project CYBER VILLAGE: In order to make the village youths/students of Barahariharpur

and nearby areas computer literate under the Project CYBER VILLAGE.

The objectives of the Project CYBER VILLAGE were as under:

 To make village youths/students computer literate for their pursuit of better career in future.



ii. To make villagers aware of the importance of information revolution through internet.

The detailed status of the Computer Literacy Centre:

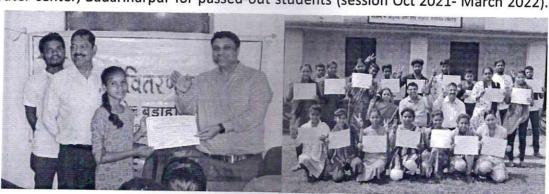
S. No.	Center Wise Enro Center of Village Youths			ent Status	Subjects	
110.		Male	Female	Total	Taught	
1	Badahariharpur	12	9	21	MS Office/ Tally/ Internet	
	Total	12	9	21		

Youth are taking internet facility; this study will develop youth.

<u>Certificate distribution:</u> On 13th May, 2022, Certificate distribution ceremony was organized at Computer center, Badariharpur for passed-out students (session Oct'2021- March'2022).

Shri
Anil
Kumar
Soni HR
HeadAPNRL
was
the

Chief



Guest. During his speech he said that computer knowledge is part of our life and youth cannot excel in any field of life without computer knowledge. He also said that internet facility will be started very soon. Vote of thanks given by Mrs. Ambika Mahato, Instructor.

- 1. <u>Bus facilities:</u> Bus facility has been providing to girl students of peripheral village for higher education at Jamshedpur. About 40 villages girl students are availing the bus facilities.
- 2. English coaching class: As you known that CSR department of Adhunik Power and Natural Resources Limited (APNRL) has always been empowering the rural youth to lead a life with lasting social recognition through various training programs. On 2.6.2022 we started English coaching class in the Computer Centre, Badahariharpur for those village youth who have

attended computer classes in the center. 20 village youths and instructor were participated. The class began with the welcome note by AGM-CSR Mr. Sanjeet Kumar Sinha. Mr. Sinha gives warm welcome to village youth and explained the benefit & goal of the English class. During the introductory session Mrs. Rina Gupta said that English is a major element



of everyone's life today. English has that value which helps to make people valuable and full of knowledge.

Mrs. Reena Gupta is teaching voluntary one hour for rural youth from 9.30 am to 10.30 am every alternative day.

3. Awareness Program on higher education at GOVT. MIDDLE SCHOOL, PADAMPUR

The CSR Department of Adhunik Power Natural Resources Limited, Padampur organized an awareness program on Higher Education for the passed out students of class VIII on 3rd sept.

2022 at Campus of GOVT. MIDDLE SCHOOL, PADAMPUR. The program started with a motivational speech by the Principal of the school, Ms. Joba Mandal. After that Mr. Sanjeet Kumar Sinha and Mr. Anil Sardar gave a speech about the future prospects and shared their experiences that inspired them to pursue higher studies. Shri Sanjeet



Kumar Sinha and Anil Sardar jointly presented a compass to the concerned students as a memorable gift during the program. Ms. Joba Mandal, Principal appreciated the CSR team of Adhunik Power and Natural Resources Limited for facilitating this event. About 30 students including teachers, Sanjeet Kumar Sinha-APNRL and Anil Sardar-APNRL were participated this Program. Teachers and the Students of the school had been a great support to make the event successful.

4. New Enrollment/ Admission in AWC for pre-school education: We know that pre-primary

studies are given to children from three to five years old in Anganwadi centers. Children studying in pre-school education in Anganwadi centers also get the benefit of MDM i.e. mid-day meal. These children not need to bring bags and books and are taught through many games and sports activities.



Child whose age 3yrs was enrolled in the Anganwadi center, all the children welcomed him as well as the education material was given by CSR Head-APNRL.

WOMEN EMPOWERMENT & LIVELIHOOD

 Self Help Group (SHG) Meeting: - Every Month the SHG members meeting were organized in Chotahariharpur; Srirampur; Padampur attended meeting. Members participated and discussed regarding repayment of loan and also discussed in personal hygiene.

The objectives of Self Help group meeting were as under:

- To explore the functional aspects of SHGs in promoting micro saving and inter loaning activities.
- ii) To increase social cohesiveness among the members of women Self-Help-Group.
- 2. <u>Agarbatti Making by Swarsati Mahila Samiti, Kandra</u>: The members of Swarsati Mahila Samiti, Chotahariharpur engaged in Agarbatti making as their livelihood. CSR team is facilitating the group in marketing to achieve their aim.
- 3. Nil Production by Johar Jaher Ayo Mahila Samiti: 15 members of Johar Jaher Ayo Mahila Samiti of Padampur engaged in Nil Production & selling. This has helped them in increasing corpus fund for their group. They have made this activity as their livelihood.

Sports & Culture:

1. Sports & Cultural Programme at Padampurpur: Every Year Dibu Kishun Memorial Club,

Padampur organised three-day event of sports and culture program on the occasion of Independence Day at Padampur Ground. The programme 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 major events were Football



Tournament, Chaw Nitya, Murga Larai, Mena Bazar etc. 32- boy's football team and 4 junior team participated in football tournament from nearby villages of Saraikela Kharsawan District. More than 20000 people came to see it as if the people of the whole city had come here. Sports and Adiwasi kalyam Minister of Jharkhand Sri Champai Soren was present during the



program, which increased the excitement in the sports. He thanked the program's Organizers for a peaceful game. Adhunik Power & Natural Resources Limited, Padampur facilitated with financial support and other required resources like medical team, ambulance service, preparations for making playground ready, cleaning of sites etc. CEO of Adhunik Power Sri Arun Kumar Mishra, Head HR Sri Anil Kumar Soni and Sanjeet Kumar Sinha-CSR also joined this program and motivated to organizers and volunteers.

2. World Tribal (Indigenous) Days 2022:

As you know the United Nations declared 1994 the year of World Tribal (Indigenous) Days.

Thus, on 9 August 1995, World Tribal (Indigenous) Day was organized for the first time. Every year on 9th August "World



Tribal (Indigenous) Day" is celebrated to raise awareness and protect the rights of tribal. Population. In this regard, an awareness sammelan was organized by committee Pindrabera . The company had provided necessary resources like preparation of playground, cleaning of sites, drinking water facilities etc. as well as financial assistance to the village committee. About 2000 people from different villages of Gamharia block participated in the program.

3. White washing, painting and cleaning work at Sarnaasthal, Vidhwajpur: White washing, painting and grass cutting works was completed at Sarnaasthal of Virdhwajpur, where Puja was



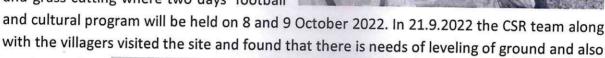
performed on 17th July 2022 with traditional method and also wished God for good rain, good

harvest. Along with this, wishes were also made to God for the prosperity and development of the region.

4. Ground preparation and grass cutting: CSR department of Adhunik Power & Natural

Resources Limited, Padampur is playing an important role for community development.

A meeting was held on 19.9.2022 with village youths regarding ground preparation and grass cutting where two days' football



requirement
of grass
cutting. CSR
team provided
JCB from
24.9.2022 to
26.9.2022 to
level the land.



The villagers are overjoyed when the work is done and they thank the company very much for their cooperation.

OTHER

1. International Yoga Day, 2022



A few minutes of Yoga during the day can be a great way to get rid of stress that accumulates in both the body and mind. Yoga postures, Pranayama and meditation are effective techniques to release stress. Meditation is Relaxation which gives calm mind, good concentration and Rejuvenation of the body and mind etc. In view of this, Adhunik Power & Natural Recourses

Limited, Padampur organized a special yoga session on the occasion of the 8th edition of International Day of Yoga on June 21'2022 with the theme 'Yoga for Humanity' in our plant premises for employees and villagers. Yoga is an ancient ascetic practice originated in India that combines physical, mental and spiritual pursuits to achieve harmony of the body and mind.

The sessions which started at 7.30 am was carried out under the guidance of the yoga instructor Mr. Ashish Ranjan. About 50 employees including contract employees were

performed yoga. All the participants followed the instructions enthusiastically with the objective of incorporating the goodness of Yoga into their own lives. Asanas in standing, sitting as well as laying postures were performed. Pranayam and other breathing exercises were performed followed by the prayer.

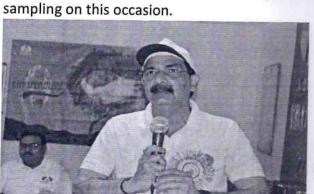
M.N. Singh Head O&M-APNRL said that the importance of yoga and emphasized physical

exercise in daily life.

Sri Anil Kumar Soni- Head-HR, APNRL said that every year yoga programs are organized in the company premises for the employees as well as the villagers who are physically fit and mentally strong so that they can carry out their daily activities can and live a happy life.

Vote of thanks given by Sanjeet Kumar Sinha-Head-CSR, APNRL.

World Environment Day 2022: Adhunik Power & Natural Resources Limited, Padampur observed the World Environment Day on 5.6.2022 at plant premises and created awareness about importance of environment and plantation. Senior Officers of the company planted



APNRL observed the World Environment Day (WED) at plant premises. The programme was initiated through the plantation of tree by CEO Sri Arun Kumar Mishra inside the premises of the company. Rally was flag on by Sri Arun Kumar Mishra and about 200 employees were moving

form plant premises to Pindrabera vs Kandra Bus Stand and loudly say all the slogs which are written in placards. Security and supervisory employee takecare the cycle riding people because it was a busy road.



3. <u>Virdhwajpur-Bikaner road clear</u>: 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. The villagers of Virdhwajpur-Bikaner held several meeting with the CSR team regarding overhead tank and big peepal tree has fallen on the road. Simultaneously, it was decided that a written application in this regard by the villagers should be given to the company.

On 1.7.2022 an application has been received from villagers of Virdhwajpur-Bikaner, CSR team paid a visit to the site along with the villagers and found that an overhead tank has damaged and big peepal tree has fallen on the road during the cyclone near Mahadeopuram due to which people are facing a lot of trouble in commuting.

The Overhead tank was installed through the Panchayat (Government), so it can be repair only after talking to the Panchayat-Mukhiya or authorize person.



In view of the above, the company has provided JCB and tree cutter to clear the road on July 6, 2022, due to which the tree was removed from the road with a hard effort of 4 hours. Villagers are very happy with this work and they thanked the company very much for their cooperation.

CSR department of Adhunik Power & Natural Resources Limited, Padampur is playing an





important role for community

development.

The villagers of Bahadariharpur held a meeting regarding big Neem tree has fallen on the village road near Shiv Mandir, Badahariharpur. In 20.8.2022 the CSR team along with the villagers visited the site and found that due to heavy rains the neem tree had fallen on the road, causing lot of inconvenience to the people in commuting.

In view of the above, CSR provided Poclain Machine from the Logistics Department for tree removal, due to which the tree was removed on 21st August, 2022 from the road with a hard

effort of 2 hours. Villagers are very happy with this work and they thanked the company very much for their cooperation. We appreciate them for this noble work.

4. Azadi ka amrit Mahatsav: Har Ghar Tiranga' was a campaign under the aegis of Azadi Ka Amrit

Mahotsav to encourage people to bring the Tiranga home and to hoist it to mark the 75th year of India's independence, in this regards the CSR team of Adhunik Power & Natural Resources Limited was given 25000 tricolor flags on 6.8.2022 to the Deputy Commissioner of Seraikela-Kharsawan in presence of Superintendent



of Police Sri Anand Prakash, Deputy Commissioner, Sri Subodh Kumar, Additional SP Sri Purshotam Kumar etc.



From roadside decorations to people's homes, vehicles and establishments, the tricolor was waving all over the country. Wherever we went, our tricolor was seen waving proudly everywhere. In view of this, Adhunik Power and Natural Resources Limited, Padampur hoisted the flag among the school children and villagers and also

organized rally at Badahariharpur on 13.8.2022.

5. CELEBRATE TEACHERS DAY 2022:

CSR department of Adhunik Power Natural Resources Limited, Padampur had celebrated teacher's day on 5th sept. 2022 at GOVT. MIDDLE SCHOOL, BADAHARIHARPUR. Sanjeet Kumar Sinha

- CSR said that all the famous people have become





famous due to the path direction of the teachers, we should always respect the teachers, they are the builders of our future. Sri Anil Sardar and Sanjeet Kumar Sinha has jointly given memorable gift to the respective teachers during the function. Shri Harendra Pathak, Principal said that this day is dedicated to the second President of India, Dr. Sarvepalli Radhakrishnan, his birthday is celebrated as Teacher's Day. He was great academician philosopher and one of the most well-known diplomats, scholar president of India. We celebrate Teachers' day every year throughout the country on 5th September. About 150 students including teachers, Sanjeet Kumar Sinha-APNRL and Anil Sardar-APNRL were participated this function.

The program was started by the Garlanded of the second President of India, Dr. Sarvepalli Radhakrishnan, then it was followed bv Cultural Programme performed by students. The Teachers Day was celebrated in form of formal gettogether, with their students managed to make the day memorable for



their teachers. The celebration was also marked by songs and dances by students showing their gratitude towards their teachers. During the program all the students were given packets of biscuits. Teachers and the Students from the respective school had been a great support to make the event successful.

Media

नेत्र जांच शिविर आयोजित कर आधुनिक पावर ने दी संस्थापक को श्रद्धांजिल

अधुरिक पाना चंद्र नेपूर्व शिक्षेत्रें निर्माण रिक्षेत्रें निर्माण करणपुर ने नेप्र जॉच निर्माण आसोवित कर सद अग्रवास की उनको 20वीं र्यतिष पर प्रदांतित अधित की पुण्यति प ए बद्धानात आपत का. कंपने की डिल्मेंस्ट संवनसामने में मुक्तमा को आधानक सक्ट एंड नेतुल्ल मिसेटेंस मिसेटेंड और पूर्विमा नेतालन, वससेतपुर के एंड्रम तत्कारभाग में आयोजिक नेत हेंच में कुल 49 क्योंचारियों और एमोचों को निः कुल्क मेत्र जांच को यो. पृणिया नैत्रालय के



विकित्सक राजनीकोत महत्तो के अधिकारी अस्य कुमार सिंधा, नेहान में नेत्र जोव को एवं. हरते साहातकार चेकत गुण्य एवं यन्त्रन मोहन्यर सर्वेग और मुझी दिना मिंह ने राहच्येन किया, पुरुष सर्वेकती ने जीव शिवित में उत्तरिक्षा होकर

नेत्र जांव शिविट आयोजित कर आधुनिक पावर ने



आधुनिक पावर में चला कोविड-१९ का बुस्टर डोज टीकाकरण अभियान

प्रभात मंत्र संवाददाता

कांड्रा : कांड्रा के पदमपुर स्थित आधुनिक पाका पंड नेनुस्त रिमोर्सन किपिटेड कंपनी में कोविड-19 का बूस्टर डोज टीकाकरण अभियान का आयोजन कर करीब 250 कर्मचारियों और ग्रामीणों को कोबिड-19 का बृस्टर डोज देकर जिम्मेदार और जागरूक नागरिक होने का प्रमाण दिक गया। संगताबार को कंपनी गरिसर नै. सचूर्य जिल्हा प्रशासन के सीडकल टीम को बाता में आधुनिक प्रायर डारा निला प्रशासन के सहयोग से दिया। इसके आयोजन में कंपनी के चिकित्सक जीवी अपेरीनन इस अधियान के रीतन लामुकों को मूर्ग, सीएसआर प्रमुख संजीत सिन्द, जिल्ला प्रशासन कोरिकारिट और कोर्वेवभीन का ट्रोका लगाया गया। के मेडिकात टीम के देवाशीय महत्ते, प्रमिता कुमती, कोविड 19 के संक्रमण से खुद को सुरक्षित रखने के शतिलता कुमारी, मीना कुमारी आदि का सराहतीय लिए कर्मजरियों के अलावा आसपास के गांवों के. सहयोग रहा।

दिखाया। इस दौरान कंपनी के अधि कर्मचारियों के अलावा संवेदक के कर्मचारी भी रामित थे। जिला उपायुक्त अरवा राजकमत के सकारात्मक पहल और सहयोग के लिए आधुनिव पावर के मुख्य कार्यकारी अधिकारी अस्य कमार विश्व

विश्व तंबाकु निषेध दिवस पर आधनिक पावर ने हस्ताक्षर अभियान चला दिया नशामृक्ति का संदेश



जमशेखपुर 31 मई : विश्व तंत्राक् निर्मेष दिनस के अनवार पर आधुनिक पानर एंड नेपूरल रिसोर्सन कंपनी ने मीनलनार को कंपनी परिसर में हरकावर अभियान पानर एंड नेपूरल रिसोर्सन कंपनी ने मीनलनार को कंपनी परिसर में हरकावर अभियान पानशाय। पदमपुर दिनत आधुनिक पानर में नशा मुक्ति पर और देते हुए जागरकता हरवाश्वर अभियान वाता पर्यावरण को मुद्ध रखने की शायथ की ली। इस अवसर पर कर्मचारिनों और मजदूरों की शुप्रभान और अन्य नशे से दूर होने का संकट्प दिलारी हुए नशा सेवन से कवने के उपाय भी बताय गए। इस अवसर पर आधुनिक पानर के मुखन कर्मवक्तर अभियान के प्राव्यत रहा के कहा के आधुनिक पानर के मुखन कर्मवक्तर अभियान के प्राव्यत रहा कर्मवादियों की जागरकत करने का काम किया है ताकि वे अपने स्वास्थ्य के साथ-साथ-साथ परिवार और पर्यावरण को शता है और इससे यह सावित होता है कि नता साथ का श्रीप पर्यावरण की रहा है और इससे यह सावित होता है कि नता होता के परावरण और स्वास्थ्य के शता करने का साथ पर अधिकारियों, कर्मवारियों के आलावा मजदूरों ने भी नशा के खिलाफ हस्ताशर जागरकता अवस्थकत है। इस अवसर पर अधिकारियों, कर्मवारियों के अलावा मजदूरों ने भी नशा के खिलाफ हस्ताशर जागरकता अवस्थकत है। इस

आधनिक पावर ने साडकिल रैली निकाल दिया पर्यावरण संरक्षण का संदेश दो माह बाद बीरध्वाजपुर में आवागमन हुआ शुरू



हिस्सा लिया। काफिले में सभी साइकिल सवारों ने पर्यावरण बचाने

अलावा आसपास के गांव के कम्पनी में कुल 365 पीचे रोपे गए ग्रामीणों ने भी रैली में बढ़-चढ़ कर जबकि 250 पीचों को ग्रामीणों के बीच बाटे गए ताकि वे भी इन पौधीं को रोपण कर उनकी देखभाल भी के लिए नारे भी लगाए। मुख्य कर सकें। इस अवसर पर बोलते

'पर रखें नहीं तो ण कुमार मिश्रा

हुए सीईओ ने कहा की हमारी रोजमर्रा की जिन्दगी की प्रदूषण बुरी तरह प्रभावित कर रहा है, हमें इससे निजात पाने की आवशयकता है। इसके लिए हमें जल और पेइ-पौधीं का सरक्षण करना अति आवश्यक है। इस मीके पर कर्मचारियों व ह। इस पान तर अधिकारियों ने वृक्षारोपण कर प्रकृति को हरा-भरा रखने तथा पर्यावरण संस्थण की शपथ ली। कार्यक्रम का संचालन व स्थागत भाषण पर्यावरण विभाग के कमलेश कुमार झा ने किया जबकि धन्यवाद ज्ञापन मानव संसाधन प्रमुख अनिल कुमार सोनी ने किया तथा उन्होंने सबों से आग्रह किया कि प्रखेक सदस्य कम से कम दस मौधे अवश्य



जमशेदपुर 07-08-2022

हर घर तिरंगा अभियान के तहत कांड्रा की आधुनिक पावर ने डीसी को सौंपे पच्चीस हजार राष्ट्रीय ध्वज

मन्दरियां आजादी का अमृत महोत्सव पर 13 से 15 अगस्त क्क चर्चने बाले केंद्र सफार के हर घर किया अभिका के तहत अधुनिक प्रका एंड नेपुला रिक्कोर्ज विभिन्नेड कंपनी ने जिला प्रशासन को पालीस हजार शिया प्रीडा सीका रानिवार को आदित्यपुर आँटो क्लस्टर प्रेशागृह में आधुनिक प्रावर एंड नेवुरत रिसोसेंड लिमिटेड कंपनी के महाप्रवर्धक (लडकोनंग) असम् कुमार और मोएमआर विश्वण के सं सिन्हा ने डीसी आवा शतकमल को राष्ट्रीय ध्यत सीपा। अस्य कुमार और साएसआर विभाग के संजीत



विश्व तंबाकू निषेध दिवस पर आधुनिक पावर ने हस्ताक्षर अभियान चला दिया नशामुक्ति का संदेश

विश्व तंबाक् निर्णेध दिवस पर आधुनिक पायर एंड नेब्युल रिसोर्सेज कंपनी ने मंगलबार को कंपनी परिसर में हस्तावर अधियान चलाया। इस दौरात नशा पुष्ति पर और देते हुए जागरुकता हस्ताक्षर अभियान चल पर्यावरण को शुद्ध रखने की शपव ली वहाँ। कंपनी के कर्मचारियों और मज़रूरी को भूग्रपान और अन्य नशे से दूर रहने का संकल्प दिलाते हुए नशा सेवन से चचने के उपय भी बताए गए। मुखा कार्यकारी अधिकारी अरुण कुमार मिश्र ने कहा कि आधुनिक पावर ने हस्ताधर - धीम पपार्थरण की रक्षा है और इससे - में हिस्सा लिया।



अभियान के पाध्यम से कर्मकारियों को जागरूक करने का काम किया है तकि वे अपने स्वास्थ्य के साध-साध से रख सकें। कहा - इस साल का

यह साबित होता है कि नशामुक्ति पर्यावरण और स्वास्थ्य के लिए कि.तन अवस्था है। अधिकारियों कर्मचारियों परिवार और पर्यावरण का ख्याल ठीक के अलावा मजदूरों ने भी नशा के विलाम हस्तकार नागस्कता अभियान

रैली में दिया पर्यावरण संरक्षण का संदेश

अध्यक्तिक पॉवर वड जेपुरल रिसोर्टीन मिनिटेड, पटनपुर वरी और से हुआ अपरोजन

MARIA (E June) ; i viz kom finivis i प्यपुर के मुख्य बार्यकारी अध्यापी सम्भ कृत्या निक्र ने कहा कि अरकी दिलाकों में पर्यापार्थना परिचया की व्यक्तिकहा पर एक्टें मही थी न्याव्य प्रति की अपना अधिताय कराया

कार्य को अनुसा अधिकार के स्वाप्त पुरिकार के स्वाप्त कार्य मिला पर्याचार दिल्हा स्वाप्ति के दौरान कर्मकारियों को रे स्वाप्तिकों कर के में, एक मीने पर रूप से कर्मकारियों के अधिकारियों स्वीमाल को एक मिलान्य सामृश्वित को निकार मिलान्य के सुन

यह-चड़ कर हिस्सा शिदा



इस अवनार पर कंपने के शीईओ ने क्या कि तमनी शीअवर्त की जिटनों को क्टूमन दुनी शक प्रचारित कर रख है, को इससे निजात को की अवक्यान है, इसके दिन होंगे

में गांव के मार्गानों ने भी जब-भड़ कर तिस्ता तिमा अर्थाव्य पात्र सिम्पाद एवं क्या करी हुए. से मुख्येस क्या में प्रभावत में मार्ग स्वार्तिक तिमा अर्थाव्य पात्र सिम्पादी हैं के क्या करी हुए. से मुख्येस क्या में प्रभावत क्या में मार्ग मार्गिक क्या करी हैं मार्ग मार्गिक क्या करी हैं मार्ग मार्गिक क्या करी हैं मार्ग मार्ग मार्ग मार्ग प्रभावत क्या करी हैं मार्ग मार्ग मार्ग प्रभावत क्या करी हैं मार्ग प्रभावत क्या करी हैं मार्ग प्रभावत क्या करी हैं मार्ग मार प्रदूषण कर रस प्रभावित

उस और पेड़ केंद्री का सरकार प्रश्य अति आधापक है, द्वस मेके पर कर्मकरियों व ऑफानीचों ने काम हो. कार्यक्षम् वा संक्रतन व रमाना भावत प्रावेदना क्रिया के कार्योग कुन्दर का में क्रिया क्रमीक प्रत्याव क्रमान मानव भेरताल प्रमुख अभिना कुन्दर सोन्दे ने क्रिया.

हर घर तिरंगा अभियान के तहत आधुनिक पावर ने पच्चीस हजार राष्ट्रीय ध्वज सौंपे

स्त्रों : शानायी का स्त्रात्त के प्राप्त के प्राप्त के प्राप्त के में कि स्वर्गत के स्वर्ग के स्वर्ण के स्वर्ग के स्वर्ग के स्वर्ग के स्वर्ग के स्वर्ण के स्वर्ण के स्वर्ग के स्वर्ग के स्वर्ण के स

प्रणास कवार विशेष संध कानुवा की सींग कान्य की सींग की स



उपानुक सत्य पानक्यत ने कहा प्रानुक सत्य पानक्यत ने कहा मो और कॉमीट कंपीनत मा किस्स प्रमें और इस व्योभात का किस्स प्रमें इस प्याची का निर्माण प्रानुक्षीय विकास को प्रान्त स्थान राज्यों तम गाँक को प्रान्ते स्था

LIST OF LOCAL EMPLOYEES OF APNRL

	LIST OF LOCAL EMPLOYEES OF APNRL				
SI.No.	Employee_Co de	Employee_Name	Cadre		
1	00302223	Arun Kumar Mahato	High Skilled		
2	00302236	Rajen Kumar Tudu	High Skilled		
3	00302386	Budhram Baskey	High Skilled		
4	00302387	Ajit Mahato	High Skilled		
5	00302393	Bijay Baskey	High Skilled		
6	00302436	Rajaram Baskey	High Skilled		
7	00302462	Rajesh Kumar Mahato	High Skilled		
8	00302503	Raju Tudu	High Skilled		
9	00302506	Ruhi Ram Majhi	High Skilled		
10	00302510	Santosh Mardi	High Skilled		
11	00302516	Rajesh Mahato	High Skilled		
12	00302517	Mohan Lal Mahato	High Skilled		
13	00302518	Sumit Kumar Mahato	High Skilled		
14	00302519	Tapan Kumar Mahato	High Skilled		
15	00302520	Bibhishan Mahato	High Skilled		
16	00302521	Suku Murmu	High Skilled		
17	00302522	Bimal Kumar Mandal	High Skilled		
18	00302524	Vikram Baskey	High Skilled		
19	00302525	Mangal Besra	High Skilled		
20	00302526	Bir Singh Hembram	High Skilled		
21	00302527	Gopal Hembrom	High Skilled		
22	00302529	Durga Hembrom	High Skilled		
23	00302530	Suren Baskey	High Skilled		
24	00302532	Budheswar Baskey	High Skilled		
25	00302533	Karan Hembrom	High Skilled		
26	00302534	Umesh Tudu	High Skilled		
27	00302550	Birdhan Baskey	High Skilled		
28	00302574	Anil Sardar	High Skilled		
29	00302604	Sohan Kisku	High Skilled		
30	00302605	Dilip Kisku	High Skilled		
31	00302606	Rabindra Nath Majhi	High Skilled		
32	00302607	Mokra Murmu	High Skilled		
33	00302608	Lakhiram Tudu	High Skilled		
34	00302384	Lal Mohan Mahato	High Skilled		
35	00302610	Jiten Hansda	High Skilled		
36	00302611	Jiten Sardar	High Skilled		
37	00302612	Ashok Kumar Mahato	High Skilled		
38	00302613	Mangal Majhi			
39	00302614	Sagram Tudu	High Skilled High Skilled		
40	00302615	Sunil Kumar Tudu			
41	00302616	Ganesh Mahato	High Skilled		
42	00302617	Sachin Kumar Tudu	High Skilled		
43	00302618	Alok Mahato	High Skilled		
44	00302619	Rakesh Kumar Mahato	High Skilled		
45	00302620		High Skilled		
46	00302622	Chhotray Majhi	High Skilled		
47	00302622	Govind Majhi	High Skilled		
48		Anita Mahato	High Skilled		
49	00302602	Sarla Majhi	High Skilled		
50	00302237	Bangal Majhi	Skilled		
	00302430	Laxman Baskey	Skilled		
51	00302493	Surajmani Baskey	Skilled		
52	00302507	Dilip Kumar Mahato	Skilled		

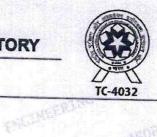
SI.No.	Employee_Co de	Employee_Name	Cadre	
53	00302508	Dulal Mahato	Skilled	_
54	00302509	Raju Mahato	Skilled	
55	00302528	Chhatamuni Baskey	Skilled	
56	00302540	Birendranath Baskey	Skilled	
57	00302541	Shailendra Tudu	Skilled	
58	00302621	Devi Lal Majhi	Skilled	
59	00302609	Durga Baskey	Skilled	7
60	00302645	Manik Singh Sardar	Skilled	7
61	00302659	Krishna Manjhi	Skilled	7
62	00302660	Sakla Hembrom	Skilled	7
63	00302661	Uttam Kumar Mahato	Skilled	7
64	00302662	Shikar Hembrom	Skilled	7
65	00302669	Som Murmu	Skilled	7
66	00302670	Khirod Chandra Mahato	Skilled	7
67	00302671	Sona Ram Hembrom	Skilled	1
68	00302673	Rajesh Mahato	Skilled	1
69	00302674	Nimay Mahato	Skilled	1
70	00302676	Peeton Baskey	Skilled	1
71	00302679	Baijnath Mardi	Skilled	
72	00302680	Nitai Sardar	Skilled	
73	00302681	Baliram Murmu	Skilled	
74	00302682	Karu Tilka Majhi	Skilled	1
75	00302684	Jitu Hembrom	Skilled	1
76	00302687	Soken Tudu	Skilled	1
77	00302694	Akash Tudu	Skilled	1
78	00302696	Mahendra Tantubai	Skilled	1
79	00302698	Karu Besra	Skilled	1
80	00302700	Ravindra Nath Tudu	Skilled	
81	00302708	Jeevan Manjhi	Skilled	l k ak
82	00302709	Birsa Hansda	Skilled	
83	00302711	Sanjay Mandal	Skilled	
84	00302712	Budhadev Mahato	Skilled	
85	00302713	Narayan Mahato	Skilled	
86	00302714	Jai Chand Mahato	Skilled	
87	00302715	Mithun Majhi	Skilled	
88	00302716	Sumit Kumar Mahato	Skilled	
89	00302717	Mantu Mahato	Skilled	
90	00302719	Ranjit Singh Sardar	Skilled	
91	00302523	Bablu Besra	Skilled	
92	00302531	Dasmath Hembrom	Skilled	
93	00302453	Paneshwari Kumari	Semi-Skilled	
94	00302454	Sunil Baskey	Semi-Skilled	
95	00302458	Nuna Baskey	Semi-Skilled	
96	00302463	Sonia Baskey	Semi-Skilled	
97	00302494	Saraswati Devi	Semi-Skilled	
98	00302501	Bangi Baskey	Semi-Skilled	
99	00302628	Kalipada Singh Sardar	Semi-Skilled	通过 · 通
00	00302644	Vikram Singh Sardar	Semi-Skilled	图14. 基
01	00302646	Jagnath Singh Sardar	Semi-Skilled	图13 · 图2 · 平平。下文图 276 · ·
02	00302647	Budheshwar Mahato	Semi-Skilled	ALL AND ALL STREET
03	00302663	Ranjit Besra	Semi-Skilled	
04	00302664	Hopna Baskey	Semi-Skilled	
05	00302665	Sona Ram Baskey	Semi-Skilled	

ue		Employee_Name	Cadre
106	00302666	Suku Majhi	Semi-Skilled
107	00302667	Gopal Majhi	Semi-Skilled
108	00302668	Ramdas Kisku	Semi-Skilled
109	00302672	Ram Hembrom	Semi-Skilled
110	00302677	Raju Baskey	Semi-Skilled
111	00302678	Bablu Baskey	Semi-Skilled
112	00302683	Rajendra Hembrom	Semi-Skilled
113	00302688	Umesh Baskey	Semi-Skilled
114	00302690	Anil Tudu	Semi-Skilled
115	00302695	Sushil Kumar Tudu	Semi-Skilled
116	00302697	Prakash Tudu	Semi-Skilled
117	00302701	Som Majhi	Semi-Skilled
118	00302702	Salku Tudu	Semi-Skilled
119	00302707	Sukram Tudu	Semi-Skilled
120	00302710	Surja Hansda	Semi-Skilled
121	00302718	Santosh Sardar	Semi-Skilled
122	00302720	Lal Mohan Mahato	Semi-Skilled
123	00302721	Sohan Sardar	Semi-Skilled
124	00302722	Paga Sardar	Semi-Skilled
125	00302773	Shibnath Singh Sardar	Semi-Skilled
126	00302774	Basanti Singh Sardar	Semi-Skilled
127	00302775	Kali Pado Sardar	Semi-Skilled
128	00302956	Ms. Pano Devi	Semi-Skilled

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YUGANTAR BHARATI ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by: Certified by:-

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018



Test Certificate

ULR (Unique Lab Report) No. Discipline Chemical	. Group F	Pollution & Environment	S 2 2 2	10 0 0	0 0 1 6 3 8		
Report Release Date	30th September, 2022				Waste Water / Effluent Water		
W. Order/ JSPCB App. No.	LOST TO A MINOR DISCHARGE	e1, 2022	Report ID		YBAEEL-220920-114052- WW01		
Type of Industry(if any)		3030005781			18.12.2021		
Report Issue to	pe of Industry(if any) Thermal Power Plant		Job code/ Ref. n	0.	YBAEEL/WA/L/W/Sep-22/06		
Sampling Date	VIII Pagan	k Power & Natural Res npur, PGCILS, Kandra	- 832402, Jharkh		LEWYAL ESKANE		
	M/s Adhuni Vill Padan 24/09/2022	k Power & Natural Res npur, PGCILS, Kandra	- 832402, Jharkh		Du VDATTI T		
Sampling Protocol	24/09/2022	k Power & Natural Res npur, PGCILS, Kandra rt-1) 1987, R-2003	- 832402, Jharkh Mode of sample		By YBAEEL Team		
Sampling Protocol Sampling Location	24/09/2022 IS: 3025 (Par	npur, PGCILS, Kandra rt-1) 1987, R-2003	- 832402, Jharkh Mode of sample of Sample Code	collection	220926-WW-E01		
Sampling Protocol Sampling Location Sample pkg. Condition	24/09/2022 IS : 3025 (Par Effluent Treat	npur, PGCILS, Kandra rt-1) 1987, R-2003 tment Plant Outlet	- 832402, Jharkh Mode of sample of Sample Code Sampling Source	collection	220926-WW-E01 Effluent Water		
Sampling Date Sampling Protocol Sampling Location Sample pkg. Condition Meteorological Cond. of Field	24/09/2022 IS: 3025 (Par	npur, PGCILS, Kandra rt-1) 1987, R-2003 tment Plant Outlet	- 832402, Jharkh Mode of sample of Sample Code	collection	220926-WW-E01		

444			
*******	act	Raculte	*****

SI	Parameter	Test Method	Units	1		
1.	pH value	IS 3025 (P-11):2002		MU %	Results	Limits
2.	Temperature	IS 3025 (P-09)	pH	2.53	7.75	5.5 - 9.0
3.	Total suspended solids		°C	1.55	28.8	The second
4.		IS 3025 (P-17):2012	mg/l	8.26	48.0	100
	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	3.44	70.5	
5.	BOD	IS 3025 (P-44):2009	mg/l	6.85	8.8	20 3381
6.	COD	IS 3025 (P-58):2006	mg/l	4.02	28.0	30
7.	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	mg/l	7.14	Will the second	250
8.	Copper (as Cu)	APHA 3111 B 23rd edition 2017			BDL (MDL 0.02)	2
9.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	16.09	0.01	3
10.	Zinc (as Zn)		mg/l	6.26	BDL (MDL 0.02)	0.1
11.	Sulphate (as SO ₄ ² ·)	APHA 3111 B 23rd edition 2017	mg/l	6.57	0.06	5
1	onibilate (as 304-)	IS 3025 (P-24):2003	mg/l	4.37	28.2	

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MIN A Reimone (* reine de la
nv. Condition of Lab	MDL: Minimum detection limit, BDL: Below detection limit,
pecific contractual notes	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). All values are expressed in as unit and results listed refer only to the least of the listed refer only to the least of the leas
	This report, in full or in part, shall not be used for advertising the sample and applicable parameter in Lab's Permanent Facility
	This report cannot be reproduced, except when in full without the any court of law.
	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.
marks	All disputes are subjected to the Ranchi, functions
aniarks	Sample compiles with prescribed limits.

Sample Drawn By - Angad Munda

Juani 30.09.2022	300912
Tested by Shivani Kumari Singh	Verified & Issued by
(Lab Analyst)	Urresh Das Authorized Signatory

Authorized Signatory
Pollution & Environment
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : -

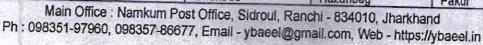
Jamshedpur

Dhanbad

Hazaribag

Pakur



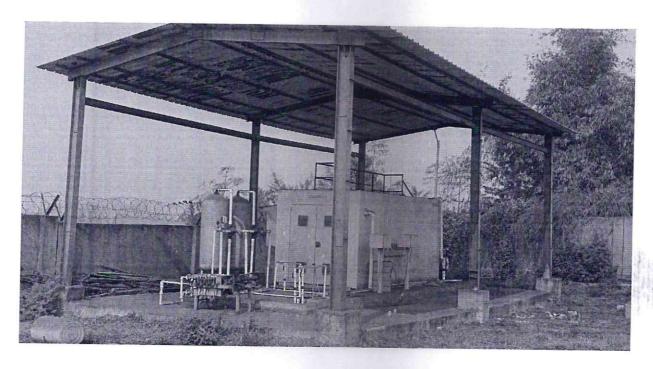




CNN

Sewage Treatment Plant





प्रस्प XV (प्रथम अनुसूची का अनुच्छेद ६ देखिए) FORM XV (see Article 6 of the First Schedule)

अधिकापनों में पेट्रोसियम के आयात और मंडारकरण के लिए अनुनाप्ति LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/HQ/JH/15/1065(P257355)



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 को केवल इसमें यथा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम 5000.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/JH/15/1065(P257355) तारीख 23/12/2011 जो कि इससे उपाबद हैं. में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुजय्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुजय्ति अनुदत्त की जाती

Licence is hereby granted 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 valid only for the importation and storage of 5000.00 KL (P257355) dated 23/12/2011 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of

यह अनुजम्ति 31st day of December 2022 तक प्रवृत रहेगी । The Licence shall remain in force till the 31st day of December 2022

पेट्रोतियम का विवरण /Description of Petroleum	अनुजप्त मात्रा (किलोलीटर्स में) /Quantity licenced in KL
वर्ग क प्रपूंज पेट्रोलियम /Petroleum Class A in bulk	NIL
र्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
र्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	5000.00 KL
र्गि ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	NIL
कृत समता /Total Capacity	5000.00 KL
11	
	Chief Contro

1). Amendment dated - 23/12/2011

December 15

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

* अनुजप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संतरन अनुमोदित नक्शी में दिखाई गई हैं Plot No: Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 999999 स्थान पर अवस्थित है तथा उसमें निम्नतिखित Two Petroleum ClassCAboveground storage tanks,togetherwith other connected facilities. सम्मितित हैं |

The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: Plot No. 161, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, District: SARAIKELLA KHARSWAN, State: Jharkhand, PlN: 999999 and consists of Two Petroleum ClassCAboveground storage tanks,together with other connected facilities.

पेज सं. 2

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

नवीनीकरण के पृष्ठांकन के लिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुजप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुजप्ति फ़िस 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

अनुजापन 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	K. Thiagarajan Dy. Chief Controller of Explosives Ranchi
			उप मुख्य विस्फोटक नियंत्रक, राँची Dy Chief Controller of Explosives, Ranchi

यदि अनुजन्ति परिसर इसमें उपाबद विवरण और शर्तों के अनुरुप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुजन्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुजन्ति रह की जा सकती है और अनुजन्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुमीने 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 जुमीन 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 जुमीन 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.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government of India Enterprise)

QUALITY CONTROL LABORATORY

Visakha New Terminal CONVENT JN.-SHEELANAGAR ROAD, BEHIND AIRPORT,

VISAKHAPATNAM-530014

TEST REPORT

Product : HP INDUSTRIAL DIĘSEL OIL

Customer / Supplier /

NBOT-BONDED TANKS-PSD

Test Report No.

: BFT/10835

Branch Plant

Date of Sample Drawn : 20/07/19

Source of Sample

: TK105

Tank No

: TK105 .

Date of Sample Receipt

: 21/07/19 : 22/07/19

Oly of Sample/

: 1ltr uml / tk70/868.3 b.no.36/2019

Date of Sample Testing

Density/Type of Sample Catg / Evnt / Actvty

: Aft Receipt thru Dedicated P/L

Date of Report

: 22/07/19

Receipt/Despatch Mode

Date of Printing

22/07/19 865213

Sample Drawn by

: RAMAKRISHNA

Batch No

Specifications

JDE Sample Number

Test Line	Characteristics	and a contract	34 at 21 at 21	-	1 4 4 1 0 1 (0	T
Number		Units.	Test Method	Min	Max	Result Value
6 KINE 7 FLAS	STY@ 15°C MATIC VISCOSITY @ 40°C H POINT - PMCC	Kg/mb oSI rc '	IS 1448 [P:16] IS 1448 P:25 IS 1448 P:21	2.500 56	15.000	867.8 4,850
9 · TOTA	R CONTENT L. SULPHUR POINT SUMMER	% Vol % Mass *C	IS 1448 P :40 ASTM D 4294 IS 1448 P :10		.250 1.50 21	79 100 .47

Sample S.No.BFT/271 meets specification as per IS-15770.2008(Realfirmed2014) in the autore parameters

Appearance : Light Brown

Notes: 1) The sample is drawn by client and results relate to sample tested

2) The test report shall not be reproduced except in full without prior written approval of the Lab Incharge

3) This test report shall not be used in any advertising media or as evidence in the Court of Law without prior written consent of Laboratory

4) Test results reported are valid at the time of testing

5) This is a system generated test report and hence does not require signature

Tested By: 35323320

VELAMURI DATTATREYA

Reviewed and Approved By: 35323320

VELAMURI DATTATREYA

" END OF TEST REPORT "

Page No. : 1 of 1



Accredited by: -

Certified by:-

YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB)

ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	NAME OF THE PERSON OF THE PERS	T C 4 0	3 2 2 2 2	0 0 0						
Discipline Chemical .	Group	Atmospheric Polluti	on Sample Descrip	otion	Ambient Noise					
Report Release Date	30th Septembe		Report ID	Alon						
W. Order / JSPCB App. No.	3030005781		Work Order Dat	YBAEEL-220920-114052- N01 18.12.2021						
Type of Industry(If any)	pe of Industry (If any) Thermal Power Plant Job code/ Ref. no.									
No. of the last of	Vill Padam	Power & Natural Res pur, PGCILS, Kandra	ources Ltd. – 832402, Jharkhan	nd.	ACKIAL PAGE					
Sampling Period	22/09/2022 - 2	2/00/2022		lan.	ANIAL					
Sampling Protocol		RA 2020) & CPCB Meth	de of sample collection	ON	By YBAEEL Team					
Meteorological Cond. of Field	W.C Clear	THE RESERVE AND ASSESSMENT OF THE PARTY OF T	H % - 67	1101/2010	34 94					
Sample receipt Date					Temp 32°C /sis completed on 30/09/2022					

1	THE THE LOCAL DESIGNATION OF THE PERSON OF T	The second					ACTUAL TO THE REAL PROPERTY.
SI	Locations	Parameters	Units	MU %	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	Limits
1.	Reservoir	Leq	dB (A)	1.32	54.9	53.2	
2.	Near Main Gate	Leq	dB (A)	1.32	55.5	51.1	
3.	Sati Steel	Leq	dB (A)	1.32	52.2	41.2	Day - 75 Night - 70
4.	Occupational Health Centre	100	JD (A)	4.00		× X	

******End of Report*

 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 each body. 		Area	Unit	Day Time	Night time
decial ed as such by the competent authority	A	Industrial Area	dB (A)	75.0	70.0
Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.	В	Commercial Area	dB (A)	65.0	55.0
dB(A) Leg denotes the time weighted average of the level of sound in deathers as	C	Residential Area	dB (A)	55.0	45.0
scale(A) which is relatable to human hearing.	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	Tabor Hamilton detection simil, Bol.: Below detection limit,
Specific contractual notes	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). All values are expressed in as unit and results listed other early to the control of the con
- Parine conductual notes	
	This report Carriot be reproduced excent when in full without the unifical account.
	The samples collected shall be destroyed after 7 days from 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 involced amount.
	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	The disputes are subjected to the Ranchi Junsdiction.
Entering a removement of the second	Samples comply with prescribed limit.
Sample Drawn By - Angad	AND THE RESERVE OF THE PARTY OF
Tested By - Akash	Khalkho (Lab Analyst)

30-09-52	30/8/22
Venified by	- Issued by
Sanjeev Kumar Singh Deputy Technical Manager	Úmesh Das
	Authorized Signatory

Authorized Signatory Atmospharic Polication Yugantar Bharati Analytical & Environmental Engineering Laboratory

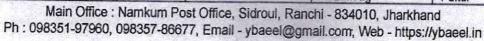
Branch Office : -

Jamshedpur

Dhanbad

45.4









YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: -Certified by: -

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018



ENDINETR



Test Certificate

1001		Who.	est (Certi	lico	ıte		W.							STE			
ULR (Unique Lab Report) No.	And William	TC	4	0 3	2	2	2	0	Ti	0 [0	n	n	1	6	1 2	F	E
Discipline Chemical .	Group	Atmos	heric	Pollution	Sar	nple	Desc	riptic	on		Ť	Work	Zon	n Noi	10	1 2	J	L
Report Release Date	30th September				No. of Concession,	ort II					-	-	-	100	EG I	1052	NO	751%
W. Order / JSPCB App. No.	V. Order / JSPCB App. No. 3030005781				Work Order Date				5-7	YBAEEL-220920-114052- N02 18.12.2021								
Type of Industry(if any)	Thermal Power Plant				Job code/ Ref. no.				-	YBAEELWA/L/A/Sep-22/29								
Report Issue to	M/s Adhunik Vill Padam	Power & pur, PGCI	Natura LS, Ka	al Resou andra – 8	rces 3240	_td. 2, Jh	arkh	and.			A.			2.9	133	100	(3)	
Sampling Period	23/09/2022 - 2	2 - 24/09/2022 Mode of sample collection							with a	Rv	YBA	EEI 7	Faam					
Sampling Protocol	IS: 9989:1981		CPCB				211	Valori			E.	Juy	TOA		eam		1716	2
Meteorological Cond. of Field	W.C Clear					% - 67				Temp 32°C								
Sample receipt Date	26/09/2022 Analysis Started on				26/09/2022 Analysis				(polesta rocc)	A LOUIS		30	/09/2	022				

			Lear Meanita			
Locations	Parameters	Units	MU%	Day Time	Night Time	Limit
Boiler Pump Area	Leq	dB (A)	1.003	77.2	71.5	
Turbine Floor	Leq	dB (A)	1.003	80.2	77.6	
Compressor House	Leq	dB (A)	1.003	82.1	80.3	85
Cooling Tower	Leq	dB (A)	1.003	76.8	76.2	
CHP Area	Leq	dB (A)	1.003	70.5		THE CHARLE
	Boiler Pump Area Turbine Floor Compressor House Cooling Tower	Boiler Pump Area Leq Turbine Floor Leq Compressor House Leq Cooling Tower Leq	Boiler Pump Area Leq dB (A) Turbine Floor Leq dB (A) Compressor House Leq dB (A) Cooling Tower Leq dB (A)	Boiler Pump Area Leq dB (A) 1.003	Boiler Pump Area Leq dB (A) 1.003 77.2	Boiler Pump Area Leq dB (A) 1.003 77.2 71.5

End of Report**

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 recible fields after on the month of the string areas as per IS 196.1966 (C)
	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 destructed that the destruction 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)

neworal	398/22
Drword 70-09-72 Verified by	1 300
Sanjeev Kumar Singh	Issued by Umesh Das
Deputy Technical Manager	Authorized Signatory

THE TABLE LINE

Authorized Stanstory Atmospharic Politation Yugantar Sharati Analytical & **Environmental Engineering Laboratory**

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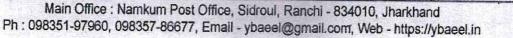
Branch Office : - Jamshedpur

Dhanbad

Hazaribag

Pakur









YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**



Accredited by: -Certified by:

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018

TC-4032



Test Certificate

ULR (Unique Lab Report) No.	4/00	TC	4 0	3 2 2	2 0 0 0	0 0	0 1	16121411			
Discipline Chemical .	Group	Atmospheri	Pollution	Sample D	Sample Description			Ambient Air Quality (Buffer Zone			
Report Release Date	30th Septemb			Report ID							
W. Order/ JSPCB App. No.	3030005781			Work Order Date		YBAEEL-220920-114052- A02 18.12.2021					
Type of Industry(if any) Thermal Power Plant				Job code/			No. of the last	/A/Sep-22/29			
Sampling Period	M/s Adhunil Vill Padan 23/09/2022 - :	ipur, PGCII	.S, Kandra	- 832402, Jh de of sample c		I p. v	DAFFI	CAT CHCLAN.			
Sampling Protocol		Daniel Co.		-1(NAAQM/36		By Y	BAEEL	1eam			
Sampling Locations		Irabera Villa			ır Village	C. F)adama	va Vella			
Meteorological Cond. of Field	W.C Clear		RH % - 65	Cara Par	Temp 32 °C	10.		ur Village - East-West			
Sample receipt Date	26/09/2022	Analysis	Started on	26/09/2022	Analysis co	ompleted o		30/09/2022			

Parameters	Test Methods	Units	MU %		ampling Locat	ion	N STOLLAR
	The second secon	Units	1010 /6	Site A	Site B	Site C	Limits
Particulate matter (PM10)	(S:5182 (P-23) 2006, RA 2017	µg/m³	2.68	91.6	86.1	95.6	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m³	2 60	44.6	45.7	56.0	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m³	7.84	33.4	28.4	32.5	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m³	4.17	54.0	49.2	54.0	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m³	3.7	24.4	20.7	23.5	400
Ozone (O3)	IS:5182 (P-09) 2019	µg/m³	9.09	18.4	21.7	17.1	180
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m³	7.95	0.17	0.16	0.18	1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m³	14.71	BDL (MDL-4)	BDL (MDL-4)	BDL (MOL-4)	
Arsenic (As)	USEPA - 10 3.2	ng/m³	2.05	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 Ro elative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. Specific contractual notes 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 perm ion 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. ECHNIN WHER ERING LABORATO

Sample Drawn By

- Angad Munda

Tested By

- Akash Khalkho (Lab Analyst)

30-09-22	39982
Verified by	Issued by
Sanjeev Kumar Singh	Umesh Das
Deputy Technical Manager	Authorized Signatory

Authorized Signatory Atmospharic Pollution Yugantar Engrati Analytical & **Environmental Engineering Laboratory**

Branch Office : -

Jamshedpur

Hazaribag

Pakur



150 9001:2015



YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

Control Board

Certified by: -

Accredited by: - | Jharkhand State Pollution Control Board (JSPCB)

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

	Discipline	Chemical	Group	Atmospheric Polluti	on Sample D	escription	Ambias	at Air Ovality (D. St. 7	
	Report Rele	ase Date	30th September, 2022		Report ID		Ambient Air Quality (Buffer Z		
		SPCB App. No.	303000578				THE PERSON NAMED IN	L-220920-114052- A02	
	Type of Indu				Work Ord		18.12.2021		
	Report Issue		Thermal Power Plant Job code/ Ref. no.			YBAEEL/WA/L/A/Sep-22/29			
	Sampling Pe	riod		ampur, PGCILS, Kan 24/09/2022			I D. W	The state of the s	
	Sampling Pr		23/09/2022 – 24/09/2022 Mode of sample collection By YBAEEL Team IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)						
	Sampling Lo		A. Pi	ndrabera Village		r Village	C. F	Dadamary Villaga	
	Meteorological Cond. of Field		W.C Clear			Temp 32 °C .	1 U. P	Padampur Village W.D East-West	
=148	Sample rece	ipt Date	26/09/2022	Analysis Started	on 26/09/2022	Analysis co	malatad a		

*****Test Re	source sylus
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Parameters	Test Methods	Units	MU %	S	on	FELIAL	
		- Onne	mo /e	Site A	Site C	Limits	
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m³	.	BDL (MDL 1.8)	1.4	1.6	
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	µg/m³	10.94	BDL (MDL 0.06)	BDL	BDL	Name of
Benzo (a)pyrene (BaP)	In case in an an in the case of			BDL BDL	(MDL 0.06)	(MDL 0.06)	
Particulate Phase Only	IS:5182 (P-12) 2004	ng/m³		(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. Temporation 27, 200 and Publish
Specific contractual notes	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196-1966 (C). 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 adjusting the used for
	This report cannot be reproduced, excent when in full, without the written permission of the CCO.
	The samples collected shall be destroyed after 7 days from the date of issue of the confidents unless asset of the
	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)

Drumal	300/20
30-10-22	300
Verified by Sanjeev Kumar Singh	- Issued by
Deputy Technical Manager	Umesh Das
Departy Tournited Intelliget	Authorized Signatory

Authorized Signatory Atmospharic Pollution Yugantar Briarati Analytical & Environmental Engineering Laboratory

MARKET MURRIT MAN TICAL

Branch Office : -Jamshedpur Dhanbad Hazanbag Pakur Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand





Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



Accredited by:

Certified by:

YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

NABL accredited testing laboratory vide certificate Number TC-4032 Jharkhand State Pollution Control Board (JSPCB) ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	T C 4	0 3	22	2 0 0 0 0	1010	141010101		
Discipline Chemical .	Group Atmospheric Po	Ilution	Sample De	ecription	Ambian	1 1 6 2 0 F		
Report Release Date	30th September, 2022		Report ID	acripaon	Ambient Air Quality (Core Zone) YBAEEL-220920-114052- A01			
W. Order/ JSPCB App. No.	3030005781	43.	Work Orde	r Date				
Type of Industry(if any) Report Issue to	Thermal Power Plant	Job code/	Man Mark Control of the Control of t	18.12.2021 YBAEEL/WA/L/A/Sep-22/28				
Sampling Period	M/s Adhunik Power & Natu Vill Padampur, PGCILS, I 22/09/2022 – 23/09/2022	Kandra –	832402, Jha	ann. Ann ann		TAL TAL		
Sampling Protocol		Mode	de of sample collection By			BAEEL Team		
Sampling Locations	A. Bachelor Hostel	CONTRACTOR SOURCE		The second secon	10 0	A CALLED		
Sampling Locations Meteorological Cond. of Fleid	A. Bachelor Hostel	B. % - 67	Switch Ya	The second secon	C. S	ati Steel (CHP Area)		

	- 119	*****Test F	esults ****	100					
Parameters	Test Methods	hods Units MU%		\$ Yes	Sampling Location				
			110 70	Site A	Site B	Site C	Limits		
Particulate matter (PM10)	IS:5182 (P-23) 2006, RA 2017	µg/m³	2.68	78.5	86.7	85.0	100		
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m³	2.60	46.1	42.2	47,2	60		
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	h8/w ₃	7.84	24.3	27.5	29.0	80		
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m³	4.17	45.8	49,1	51.3	80		
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m³	3.7	27.9	22,9	22.2	400		
Ozone (O3)	IS:5182 (P-09) 2019	µg/m³	9.09	17.9	21.2	23.3	180		
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m³	7.95	0.08	0.15	0.16			
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m³	14.71	BDL (MDL-4)	BDL (MDL-4)	BDL (MDL-4)	1		
Arsenic (As)	USEPA - 10 3.2	ng/m³	2.05	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	Laboration is maintained. Towards 1971 - Del. Delicon delection artist.
Specific contractual	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196.1966 (C).
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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10000000000000000000000000000000000000	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the samples are limited to the certificate unless specified otherwise.
	The liability of the laboratory is limited to the invoiced amount.
1 03 1 1 1 1 1 1 1 1 1 1 1 1 1	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limits.

Sample Drawn By Tested By

- Angad Munda

- Akash Khalkho (Lab Analyst)

Oxuona)	308 42
30-49-52	3019
· Verified by	- Issued by
Sanjeev Kumar Singh	'Umesh Das
Daputy Technical Manager	Authorized Signatory

Authorized Signatory Atmosphario Poliution Yugantar Bharati Analytical & Environmental Engineering Laboratory
Hazaribag Pakur

Branch Office : -Jamshedpur

Dhanbad

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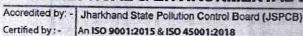
ANALY TENL

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY





Test Certificate

Discipline Chemical	Group	Atmospheric Pollut	ion Sample Des	scription	Ambie	nt Air Quality (Core Zone)	
Report Release Date	30th Septemb	The state of the s	Report ID				
. Order/ JSPCB App. No. 3030005781			Work Order	Data	YBAEEL-220920-114052- A01		
Type of Industry(If any)	Thermal Pow	er Plant	Job code/ R			18.12.2021 YBAEEL/WA/L/A/Sep-22/28	
Sampling Period	Vill Padam		ndra - 832402, Jhar			ENCY.	
	22/09/2022 – 23/09/2022 Mode of samp IS:5182 and CPCB Air Manual Volume-1(NAAQN				sample collection By YBAEEL Team		
		The second secon	mode of sample co	llection	By Y	BAEEL Team	
Sampling Protocol	IS:5182 and C	PCB Air Manual Vo	lume-1(NAAQM/36/2	012-13)			
Sampling Protocol Sampling Locations Meteorological Cond. of Field	IS:5182 and C	The second secon	B. Switch Yar	012-13)	c. 9	Sati Steel (CHP Area) W.D NE-SW	

******	est i	Result	ts **	****
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Parameters	Test Methods	Units	MU %	Sampling Location			15 of 154
				Site A	Site B	Site C	Limits
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m³	0738	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	µg/m³	10.94	BDL (MDL 0.06)	BDL (MDL 0.06)	BDL	A SERVI
Benzo (a)pyrene (BaP) (Particulate Phase Only)	IS:5182 (P-12) 2004	ng/m³	-	BDL (MDL 0.2)	BDL (MDL 0.2)	(MDL 0.06) BDL (MDL 0.2)	1

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining. Dec. Decov detection may
Specific contractual notes	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C). 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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Remarks	All disputes are subjected to the Ranchi Jurisdiction
(William Ro	Samples comply with prescribed limits.

Sample Drawn By

- Angad Munda

Tested By

ISO 45001:2018

- Akash Khalkho (Lab Analyst)

The state of the s	
30-69-2002 Verified by	30930
30-69-2002	300
	- Issued by
Sanjeev Kumar Singh	Umesh Das
Deputy Technical Manager	Authorized Signatory

Authorized Signatory
Atmosphäric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - | Jamshedpur

Dhanbad

Dolour

150 90012015

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



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

APNRL/HR/Office Order/10 5th August'2016

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

CORPORATE OFFICE: "LANSDOWNE TOWER", 2nd Floor, 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



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

05.08.2016

Annexure I

Responsibilities of the members of the environment management cell

S. No.	Designation	Reporting to	
01	Managing Director	Environmental policy and directions	
02	Plant Incharge	Managing Director	
03	Environment Manager	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.	
04	CSR Manager	Responsibility to implement social impact improvement /mitigation measures.	Plant Incharge
05	Safety Manager	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 Incharge
06	Medical Officer	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 Incharge
)6	Chemist .		Environment Manager
7	Horticulture officer	Responsible for development of Green belt & Land Scape on vacant land of Plant premises.	Environment Manager

Sr. Manager (HR)

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

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

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Ref No APNRL/JSPCB/ES/2021-22/02

Date: 20th Sep 2022

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 2021-22.

This is for your kind information & record please.

Thanking You

Your's faithfully

" [m. |]

Manager (Environment)

Encl: As mentioned above

CC: 1. Regional Office (ECZ),

Ministry of Environment, Forest and Climate Change, Bungalow No. A-2, Shyamali Colony, Ranchi – 834002

2. Regional Officer

Jharkhand Pollution Control Board

Jamshedpur, Jharkhand

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

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Ref: MOE&F, RNC/HYC/KKJ/280522/02

Dated: 28.05.2022

To,

Regional Office (ECZ), Ministry of Environment, Forest and Climate Change. Bungalow No. A-2, Shyamali Colony, Ranchi - 834002

Sub:- Submission of Half yearly compliance status report (Unit II) for the period - October 2021 to March 2022 -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 2021 to March 2022.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

orized Signatory)

Encl: As Above

Copy to:

Central Pollution Control Board, Kolkata

Member Secretary, Jharkhand State Pollution Control Board, Jharkhand

Regional Officer, JSPCB, Jamshedpur

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

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

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