



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/280522/01

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 I) for the period - October 2021 to March 2022 -Reg.

Ref:- MoEF letter No.J-13011/8/2009-IA.II(T), dated 29th Aug 2009.

Sir,

With reference to the above referred Environmental Clearance, we are pleased to submit herewith the half yearly compliance status report (Unit I) 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

(Authorized Signatory)

Encl: As Above

Copy to:

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

Rf
Becho



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

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

REGD. OFFICE

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

Website

: www.adhunikpower.com



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REPORT

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



OCTOBER 2021 – MARCH 2022

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

Adhunik Power & Natural Resources Limited Vill: Padampur, Behind PGCIL Substation, Kandra Chouka Road, Saraikela-Kharsawan, Jharkhand		
Environmental Clearance Letter No: J-13011/8/2009-IA.II(T), dated 29th Aug 2009.		
Period Of Compliances: October 2021 to March 2022		
Sl No	EC Conditions	Status as on 31st March 2022
1	No additional land in excess of 119 ha shall be acquired for any activity/facility of this project.	Total Land acquired for Unit I is well within the land mentioned in Environment Clearance.
2	EC is subject to obtaining clearance under the Wildlife Protection Act, 1972 from the competent authority	WLMP Prepared and approval has been obtained from PCCF. Complied
3	EC is subject to final order of the Hon'ble Supreme court of India in the matter of Goa foundation Vs Union of India in Writ. Petition (Civil) no. 460 of 2004 as may be applicable to this project.	Not applicable.
4	Project proponent should contribute @ Rs. 20000/ha for project area as proportionate cost to the regional Wildlife Conservation plan and a copy of the plan should be submitted to the ministry.	As in Sl. No. 2 the Wild Life Management Plan (WLMP) prepared has already been approved by PCCF, Ranchi on May'10.2010. 1 st installment already submitted. Complied
5	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.45 % and 46 % respectively at any given time. In case of variation of coal quality at the time of issuance of LOA, a fresh reference shall be made to MoEF for suitable amendment to EC 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.
6	A single stack of 220 m height shall be provided with continuous online monitoring equipment's for Sox, Nox and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Hg emission from stack may also be monitored on periodic basis.	Twin flue chimney of 275m height has constructed for proper dispersion of gases. Online monitoring equipment has installed in chimney. Photographs with details of CEMS enclosed as Annexure I Hg concentration in flue gases is well within prescribed limits.
7	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emissions does not exceed 50 mg/Nm3	High efficient ESPs of 32 fields has been installed to ensure control Particulate matter emission in flue gas. Stack monitoring report for the month of March 2022 enclosed as Annexure II.
8	Adequate dust extraction system such as cyclones/bag filters and water spray in dusty areas such as in coal handling and ash handling points, transfer area 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. Photographs Attached as Annexure III.
9	Fly ash shall be collected in dry form and storage facility (Silos) shall be provided. 100 % fly ash utilization shall be ensured from 4th year onwards. Unutilized 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	Fly Ash utilization are adhered in compliance with MoEF&CC notification dated 31.12.2021. Fly Ash generation & Utilization report (April 2021-March 2022) are enclosed as Annexure IV. Monitoring of mercury and other heavy metals (As, Hg, Cr, Pd etc.) in the bottom ash and also in the effluents emanating from the ash pond is being done periodically. Bottom

	bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	ash analysis report & effluent analysis report of ash pond for the month of March 2022 enclosed as Annexure V & Annexure VI respectively.
10	Ash pond shall be lined with impervious lining. Adequate safety measures shall be implemented to protect the ash dyke from getting breached.	Complied
11	Closed cycling cooling system with natural cooling towers shall be provided. The effluents shall be treated as per the prescribed norms.	The project design involves closed cycle cooling systems with induce draft cooling towers. The effluent generated from process operation is being treated in a Guard pond to ensure conformance to CPCB standards and recycled in plant process. Treated effluent analysis report of ETP for the month of March 2022 enclosed as Annexure VII.
12	No ground water shall be extracted for project work at any stage.	We adhere.
13	Natural drainage system within the project site should not be disturbed.	Natural drainage system has not been disturbed.
14	The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.	The project is designed with zero discharge provisions and there is separate arrangement for storm water and effluent water. Complied
15	A sewage treatment plant shall be provided and the treated sewage shall be used for raising green belt /plantation.	STP 60 KLD capacity (03 No) has installed within plant premises to treat sewage waste. Photographs enclosed as Annexure VIII.
16	Rainwater harvesting should be adopted CGWA shall be consulted for finalization of appropriate rain water technology within a period of three months from the date of clearance and details shall be furnished	The Rain water harvesting report has submitted and approved from CGWA Ranchi. 13 No Rain water harvesting system has been constructed in accordance with the approved rain water harvesting plan.
17	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires of 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 RO of the Ministry at Bhubaneswar.	The design of coal yard along with provision of fire safety measures viz. fire hydrants, water sprinklers has installed and submitted to the Ministry. Complied
18	Storage facilities of auxiliary liquid fuel such as LDO and HFO/LSHS shall be made in the plant area in consultation with dept. Of Explosive, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5 %. DMP shall be prepared to meet any eventuality in case of an accident taking place due to storage oil.	Approval received on dated 15/12/2011. License No. P/HQ/JH/15/1065 (P257355), valid upto 31 st Dec 2022 for LDO storage installation (under Petroleum Class "C") for operations. Copy of Approval are enclosed as Annexure IX. Disaster management plan (DMP) has been prepared to handle the any eventuality in case of an accident taking place due to storage of oil. 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 X.
19	Regular monitoring of ground water in and around to ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained and six monthly report shall be furnished to RO of ministry. The	Regular monitoring of ground water in and around ash pond area including heavy metals is being carried out. Ground water analysis report of upstream & downstream of ash pond compared with baseline data for the month of March 2022 enclosed as

	data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to the project.	Annexure XI.
20	A green belt of adequate width and density shall be developed around the plant periphery covering 1/3 of the project area preferably with local species.	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.
21	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Plant is under operation however first aid center comprising of competent medical staff (6 no's) and equipped with necessary medical facilities is made available onsite to provide emergency medical aid to both contract workers and company staff.
22	Noise level emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite PPE like ear plug/ear muff etc shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Adequate measures has implemented in consistent with the EMP to control turbine noise levels within stipulated limits. This include installing of sufficient engineering control in turbines as per design specifications, provision of ear plugs/ear muffs for workers exposed to high noise, rotation of workers and carrying out periodic audiometric testing of workers and records is being maintained. Noise level monitoring report for the month of March 2022 As Annexure XII.
23	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM 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 RO of ministry. The data shall also be put on the website of the company.	Monitoring of Air quality is being conducted by APNRL on monthly basis. Review of air quality monitoring results revealed compliance to NAAQS. Ambient Air monitoring reports for the month of March 2022 is enclosed as Annexure XIII.
24	Provision shall be made for the housing of construction labor 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 structure to be removed after the completion of the project.	Plant is in operational condition and local labors are coming from nearby villages.
25	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 EC and copies of clearance letter are available with the SPCB/committee and may also be seen at Website of the MoEF at	Complied.

	http://envfor.nic.in .	
26	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat Zila Praised/Municipal Corporation, urban local body and the local NGO, is any from whom suggestion/representation, if any were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied.
27	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A Environmental Management Cell is being operational onsite to ensure effective implementation of specific EMPs. Organization chart of Environmental Management Cell enclosed as Annexure XIV.
28	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the RO of MoEF the respective zonal office of CPCB and the SPCB the criteria pollutant level namely SPM, RSPM, SO ₂ , NO _x (ambient level as stack emission) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The updated compliance status of the stipulated EC conditions along with monitored data has been displayed at the company website. The monitoring data (SPM, RSPM, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. Status of compliance of the stipulated EC conditions has been uploaded on company website for the period of April 2021 to September 2021.
29	The project proponent shall also submit six monthly report on the status of compliance of the stipulated condition including result of monitored data (both in hard copy as well by email) to the respective RO of MoEF, the respective zonal office of CPCB and the SPCB.	Last six monthly reports (April 2021 to September 2021) for the project along with environmental monitoring data submitted to MoEF RO at Ranchi vide letter No MOE&F,RNC/HYC/KKJ/271121/01 dated 27 th Nov 2021 . Acknowledgement copy of same enclosed as Annexure XV.
30	The environmental statement for each financial year ending 31st March in form-V as is mandated to be submitted by the project proponent to the concern SBCB 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 the compliance of EC condition and shall also be sent to the respective RO of MoEF by email.	The last environmental statement for financial year (2020-2021) in Form V has submitted dated 20 th Sep 2021. Acknowledgement copy of same enclosed as Annexure XVI.
31	RO of the MoEF located at Bhubaneswar will monitor the implementation of the stipulated conditions. A complete set-up of documents including EIA report EMP along with the additional information submitted from time to time shall be forwarded to the RO for their use during monitoring. Project proponent will upload the compliance status their website and update the same from	The updated compliance status of the stipulated EC conditions along with monitored data has been displayed at the company website. The monitoring data (SPM, RSPM, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. However Half yearly progress report is being sent to RO office, Ranchi on regular basis as per the requirement & uploaded on company website.

	time to time at least six monthly basis. Criteria pollutant level (Stack and ambient level of NOx) will be displayed at the main gate of the power plant.	
32	Separate fund shall be allocated for implementation of environmental protection measures along with item wise break up this cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the ministry.	Adequate budgetary provision has been made by the APNRL for execution of environmental management plan.
33	The project authorities shall inform the RO as well as the ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work and commissioning of plant.	Complied
34	Full cooperation shall be extended to the Scientists/officers from the ministry / RO of the ministry at Bhubaneswar/the CPCB/the SPCB who would be monitoring the compliance of environmental status.	We ensure.

CODEL

REF: DCEM2100/DS/02

DATA SHEET DCEM2100 DUST MONITOR		
GENERAL		
1.	Make	Codel, UK.
2.	Model	DCEM2100 Dust Monitor
3.	Type	In-Situ Non contact cross duct type
4.	Qty of units	2 No
5.	Tag No.	HNE10CQ003
FEATURES		
6.	Range	0-100% Opacity, 0-999mg/m ³ , 0-999mg/Nm ³ (Fully site selectable)
7.	Min. detectable conc.	1 mg/m ³
8.	Measurement Units	Fully selectable units- mg/m ³ (measured), mg/Nm ³ (Normalized) and opacity(%)
9.	Measurement averaging	Fully selectable in range 10sec to 30 days
10.	Response time	90% in 5 seconds.
11.	Auto/manual calibration	In built automatic zero and span calibration
12.	Accuracy	+/-0.2% Opacity of measurement
13.	Drift	Less than 1% per month
14.	Resolution	+/-0.1% opacity
15.	Linearity	+/- 0.1% of full scale
16.	Repeatability	+/-0.1% opacity
17.	Power supply	88 - 264 VAC, 50-60Hz, 125 VA
18.	Remote/Local control unit	Isolated 2x 4-20 mA, 500-ohms outputs fully configurable. 3 x Volt free SPCO contact rated at 50 VDC 1 Amp. 2 Line X 32 character alpha-numeric LCD displays with 4 key keypad.
19.	Automatic misalignment detection	Provided in the instrument as a warning signal of misalignment
20.	Correction for contamination	Automatic window contamination check
21.	Error Diagnostics	Dirty optics, Misalignment, Valve 1 closed, Valve 2 closed to indicate the error conditions.
22.	Construction material and Enclosures	Fully sealed aluminum enclosures to IP 66
DESIGN CONDITIONS		
23.	Source	Modulated high intensity LED
24.	Detector	Silicon photocell
25.	Ambient air temp.	- 20deg.C to 60 deg.C
26.	Gas Temperature	Upto 850 deg.c
CONNECTIONS & DIMENSIONS		
27.	Analyzer mounting details	Analyzer can be mounted in Chimney at Elevation of 91.6 Mtrs. Please refer drawing for analyser mounting flange details.
28.	Path length	Suitable for 0.5 to 12m duct/stack inner diameter
ACCESSORIES		
29.	Fail safe shutters	Built in
30.	Air Purges	Air purges for continuous air supply to instrument provided
31.	Interconnecting cables and mounting hardware	Included in supply.
32.	Temp. transmitter	24 VDC Supply Make: Precision Converter Model: PCI1MR Range: 0 to 300 Deg C

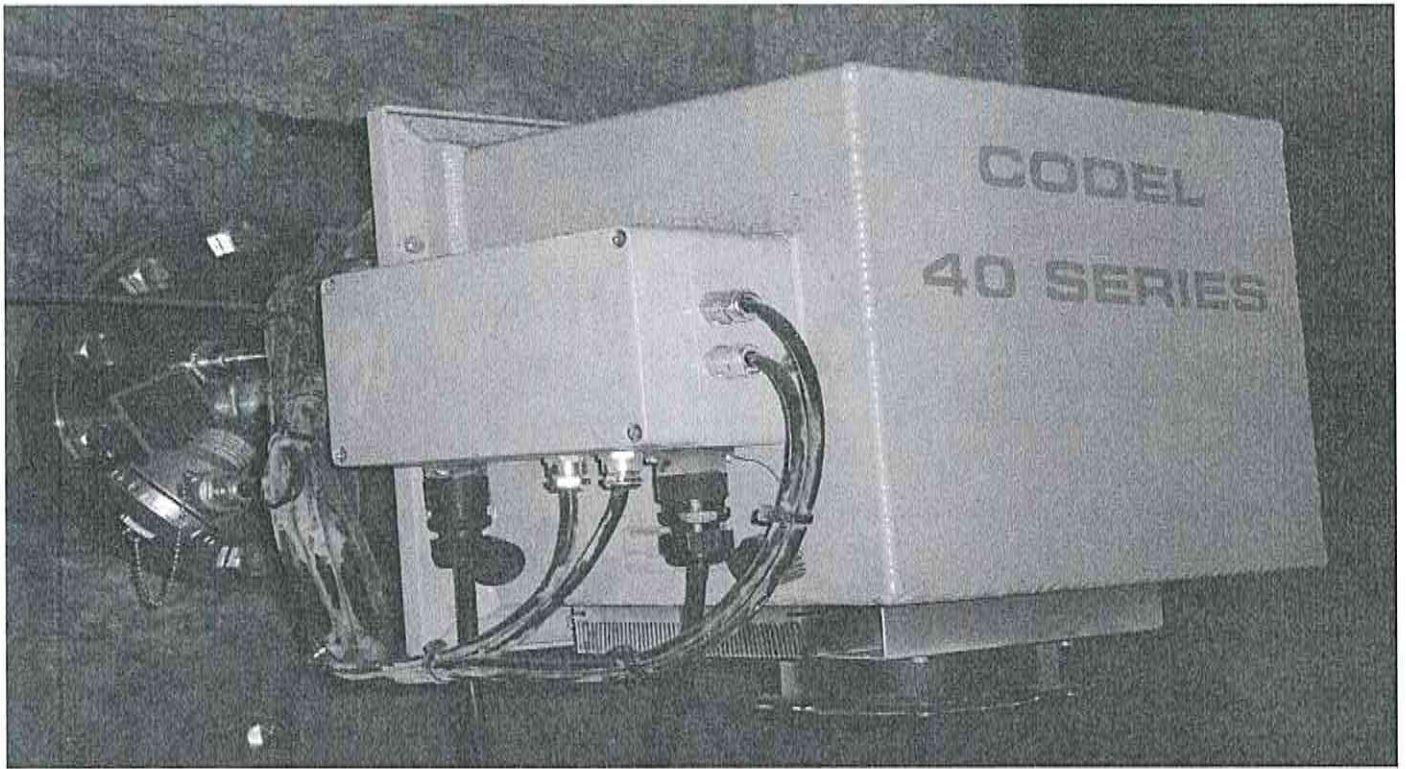
Ref: GCEM40A0/DS/02

DATA SHEET			
CO, SO₂, NO_x GAS ANALYSER			
GENERAL			
1.	Make	CODEL International Ltd., UK	
2.	Model/Article No	GCEM4000 Series Article no GCEM40A0	
3.	Type	Infrared Absorption Analyser-In-Situ type	
4.	Qty	2 No.	
5.	Tag No.	SO _x	HNE10CQ004
		NO _x	HNE10CQ001
		CO	HNE10CQ002
FEATURES			
6.	Range	CO : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ SO ₂ : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ , NO _x : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ , CO ₂ : 0 to 25% H ₂ O : 0 to 25% Above ranges are site selectable up to 3000 ppm	
7.	Min. detectable conc.	1 ppm, 1mg/m ³ , 1mg/Nm ³ for CO,SO ₂ ,NO _x & 0.5% for CO ₂ ,H ₂ O.	
8.	Measurement Units	Fully selectable units-ppm or % by volume, mg/m ³ (measured) and mg/Nm ³ (Normalised to temperature, pressure, H ₂ O & CO ₂)	
9.	Measurement averaging	Fully selectable in range 10Sec to 1 hour	
10.	Response time (T90)	Detector less than 10 seconds, Calibration less than 200 seconds.	
11.	Auto & manual calibration	In built and selectable	
12.	Function	Continuous function	
13.	Accuracy	+/- 2% of measured value for CO,SO ₂ , NO _x ,& 0.5% for CO ₂ & H ₂ O	
14.	Zero /span drift(24hrs)	Over all drift less than +/-2% per month	
15.	Repeatability	Less than 2% of span	
16.	Sensitivity	1 ppm for CO,SO ₂ ,NO _x , 0.5% for CO ₂ ,H ₂ O	
17.	Linearity	Less than 2%	
18.	LCD Display	LCD with back light	
19.	Power supply	240VAC, 50-60Hz, +/-10% 400VA	
20.	Outputs	Analog : 5 x 4-20 mA isolated, max. 500 Ohms, full configurable from Keypad for CO,SO ₂ ,NO _x in ppm & CO ₂ ,H ₂ O in % to DCS fully site configurable. Logic: 5 x Volt free contacts, SPCO rated at 50 volt 1A & 1x data invalid output (System fault)	
21.	Serial Communications	RS232/RS485 Modbus O/P	
22.	Construction material and Enclosures	Electronic Housings (DDU) : Corrosion resistant, epoxy coated Aluminium housing sealed to IP 66 Probe : SS316L	

DESIGN CONDITIONS		
23.	Infrared source	Heater cartridge assembly
24.	Infrared detector	Lead selenid detector
25.	Ambient air temp.	Transceiver unit 0 to 70 °C, Electronic unit (PSU & DDU) 0 to 60 °C
26.	Flue gas temp.	Up to 350 deg.C

CONNECTIONS & DIMENSIONS		
27	Analyser mounting details	Please refer drawing for analyser mounting flange details. Mounting location on Chimney at 91 Mtrs Elevation.
28	Stack width	Suitable for duct/Stack inner diameter of more than 2000mm.
ACCESSORIES		
29	Standard span gas for calibration	Make : Chemtron Science Laboratory, Mumbai Material : Aluminium Cylinder Capacity : 10 ltr W.C Filled with : 500ppm CO, 500ppm SO ₂ , 500ppm NO and balance Nitrogen (N ₂) Cylinder with SS regulator, necessary tubing's & fittings. Filled pressure: filled at 120-130kg/cm ²
30	Zero Calibration	For zero calibration we use plant compressed air.
31	Air dryer unit	Maximum Pressure : 10 bar Maximum temperature : 57 deg.C Air dryer unit to dry down the compressed air to -20 deg.c .
32	Zero/span gas calibration tubes	For zero calibration, client to provide plant instrument air line up to probe (10 mm OD connection) For span gas calibration, 20 mtr length SS tube of 10mm OD with necessary fittings from Cylinder to probe.
33	Pressure transmitter	Mounted on GCEM40A0 probe Make : Druck Range : 1 .6bar absolute with 4-20mA output Input supply : 24VDC operated
34	Temperature transmitter	Mounted on GCEM40A0 probe Make : Peak Sensor Limited, Washington Type: K type thermocouple Range : 0 – 600 deg.C with 4-20mA output Input supply : 24VDC operated
35	Plant instrument air Consumption	5 LPM @3 bar pressure continuous 10LPM @3 bar pressure during zero calibration

Continuous emission monitoring system





YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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

Annexure II



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	8	1	F	
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Stationary Source Emission							
Report Release Date		31 st March, 2022						Report ID					YBAEEL-220322-183133- S1							
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/A/Mar-22/38							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																		
Sampling Period		21/03/2022						Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS: 11255 & CPCB Guideline (Lats/80/2013-14)																		
Meteorological Cond. of Field		W.C.- Clear						RH % - 45					Temp.- 34°C							
Sample receipt Date		23/03/2022			Analysis Started on			23/03/2022			Analysis completed on			26/03/2022						

General Information

As observed while sampling		As reported by customer	
Location	Sampling port hole	Type of fuel Used	Coal
Platform	Permanent	Quantity of Fuel Used (During Sampling)	176 Ton/Hr.
Stack Description (Shape & Material)	Circular / RCC	Total production Capacity	274 MW
Sampling port	Available	Height of Stack from ground level	275mtr.
Stack Identification	Unit - I	Inner Diameter of Stack	4.2 mtr.
Height of port hole from Ground level	90 mtr.	Pollution Controlling Device (if any)	ESP
Running Oven during sampling (if any)	N/A	Total No. of Oven (if any)	N/A

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

Sl	Parameters	Test Method	Units	MU %	Results	Limits
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	--	403.0	-
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	--	28.0	-
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	--	100429.9	-
3.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	2.12	43.5	50
4.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	3.06	1303.0	600
5.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	2.70	725.0	450
7.	Carbon Monoxide (CO)	IS 13270:1992 (RA 2009)	%	--	BDL (MDL 0.2)	-

Emission Rate

1.	Particulate Matter (PM)	IS 11255 (Part 1)2009	kg/hr.	43.53	--
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	kg/hr.	1303.45	--
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	kg/hr.	725.0	--

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

Limit is specified as	Environmental (Protection) Rule - 1986
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits, except parameter Sulphure Dioxide & Oxide of Nitrogen Serial No. 4 & 5.

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

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

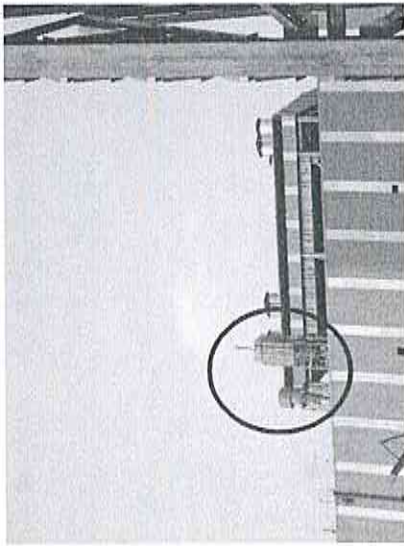
Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

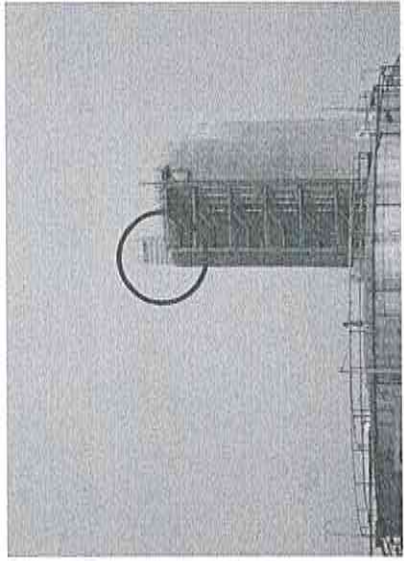
Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com; Web - https://ybaeel.in



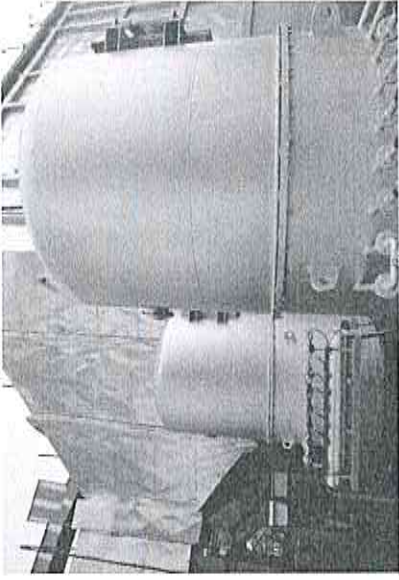
Bag Filter installed at Coal mill building



Bag Filter installed at Ash silo



Bag filter at buffer hopper



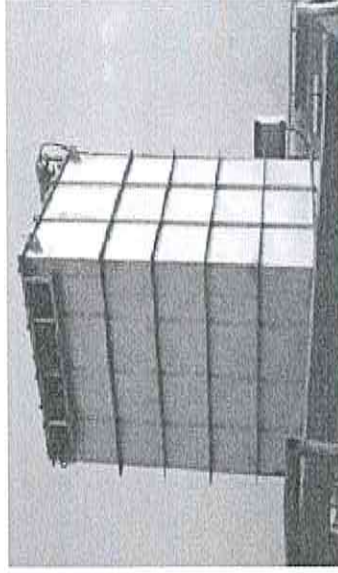
Dust suppression through Tanker



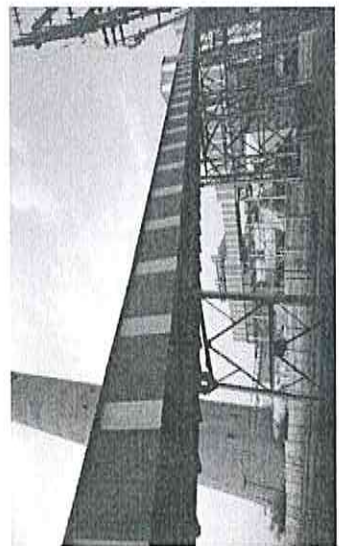
Fixed type DS system for coal Conveyor



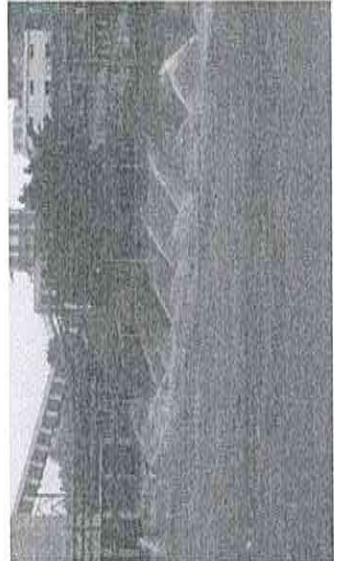
DE system at Coal Crusher House



Closed type coal conveying system



Fixed type dust suppression system



Fixed type DS system at Coal Yard



Adhunik Power & Natural Resource Limited

FLY ASH GENERATION & UTILIZATION REPORT (2021-22)

Ash Generation and Utilization							Mode of Ash Utilization					
Sl. 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	RMC	Fly Ash In Reclamation of Low Lying Area	Bottom Ash In Reclamation of Low Lying Area	Pond Ash In Reclamation of Low Lying Area /Brick Plant
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		(10)	(11)	(12)
1	APRIL	243924	39.38	96051.2	96051.25	100.0%	10574.90	50300.9	3477.0	17290.8	14407.69	
2	MAY	193394	39.16	75739.2	75739.19	100.0%	4859.80	29912.2	2551.1	27055.2	11360.9	
3	JUNE	213058	45.11	96115.0	96114.99	100.0%	4555.87	40141.9	3691.7	33308.3	14417.2	
4	JULY	246476	48.00	118299.3	118299.31	100.0%	4119.92	27285.3	3595.1	65554.1	17744.9	
5	AUG	178436	51.75	92344.6	92344.64	100.0%	4500.68	18187.3	3570.1	52234.9	13851.7	
6	SEP	152138	42.53	64710.7	64710.73	100.0%	3393.18	33497.9	3539.7	14573.4	9706.6	
7	OCT	220681	41.67	91959.8	58286.75	63.4%	6506.91	47207.8	4572.1			
8	NOV	193574	43.99	85148.5	64300.87	75.5%	6115.13	55300.9	2884.8			
9	DEC	244445	41.05	100350.2	66448.99	66.2%	4652.73	59639.5	2156.8			
10	JAN	199873	49.80	99535.1	80329.59	80.7%	5398.28	72387.2	2544.1			
11	FEB	215192	43.39	93368.2	73286.27	78.5%	6231.91	63596.2	3458.2			
12	MAR	246362	43.12	106240.8	90304.64	85.0%	7816.50	79794.1	2694.0			





YUGANTAR BHARATI

Annexure IV

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	Pollution & Environment	Sample Description	ASH
Report Release Date	31 st March, 2022			Report ID	YBAEEL-220322-183133- S02
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/S/Mar-22/02
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Date	24/03/2022		Mode of sample collection	By YBAEEL Team	
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003		Sample Code	220324-S-A02	
Sampling Location	Hopper		Sampling Source	Bottom Ash	
Sample pkg. Condition	Sealed Pack in Zipper Bag		Sample Quantity	2.5 Kg Approx.	
Meteorological Cond. of Field	W.C. - Clear		RH % - 46	Temp. - 30°C	
Sample receipt Date	24/03/2022	Analysis Started on	24/03/2022	Analysis completed on	30/03/2022

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

Sl	Parameter	Test Method	Units	MU %	Results
1.	Iron (as Fe)	USEPA 3050 B :1996/APHA 3111 B	ppm	2.73	22.8
2.	Zinc (as Zn)	USEPA 3050 B :1996/APHA 3111 B	ppm	4.44	0.29
3.	Copper (as Cu)	USEPA 3050 B :1996/APHA 3111 B	ppm	10.18	BDL (MDL 0.01)
4.	Lead (as Pb)	USEPA 3050 B :1996/APHA 3111 B	ppm	2.82	BDL (MDL 0.02)
5.	Nickel (as Ni)	USEPA 3050 B :1996/APHA 3111 B	ppm	4.10	BDL (MDL 0.02)
6.	Cadmium (as Cd)	USEPA 3050 B :1996/APHA 3111 B	ppm	9.57	1.1
7.	Chromium (as Cr)	USEPA 3050 B :1996/APHA 3111 B	ppm	5.44	0.38
8.	Arsenic (as As)	USEPA 3050 B :1996/APHA 3114 B	ppm	--	0.1
9.	Mercury (Hg)	USEPA 3050 B :1996/APHA 3112 B	ppm	--	0.06
10.	Unburn Carbon	IS 1727:1967	%	--	2.6
11.	Selenium (as Se)	USEPA 3050 B :1996/APHA 3114 B	ppm	--	0.06

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

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

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

Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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

Annexure 2



TC-4032

Test Certificate

ULR (Unique Lab Report) No.		T C 4 0 3 2 2 2 0 0 0 0 0 4 8 7 F																
Discipline	Chemical	Group	Pollution & Environment				Sample Description				Waste Water / Effluent Water							
Report Release Date		31 st March, 2022				Report ID				YBAEEL-220322-183133– WW03								
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/W/Mar-22/20								
Report issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		24/03/2022				Mode of sample collection				By YBAEEL Team								
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				220324-WW-A03								
Sampling Location		Ash Pond				Sampling Source				Effluent Water								
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml								
Meteorological Cond. of Field		W.C.– Clear				RH % - 45				Temp. - 31°C								
Sample receipt Date		24/03/2022		Analysis Started on		25/03/2022		Analysis completed on				30/03/2022						

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	2.53	7.16	6.5 - 8.5
2.	Temperature	IS 3025 (P-09)	°C	1.55	30.2	--
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	8.26	68.0	100
4.	Oil and grease	IS 3025 (P-39):2003	mg/l	14.60	BDL (MDL- 4.0)	20.0
5.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	7.86	BDL (MDL 0.003)	--
6.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	7.14	0.12	--
7.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	6.26	BDL (MDL 0.02)	--
8.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	25.0	BDL (MDL 0.003)	--
9.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.44	98.97	--

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

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

Sample Drawn By : Angad Munda
Tested By : Shivani Kumari Singh (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



Branch Office : - Jamshedpur | Dhanbad | Hazaribag | Pakur

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

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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

Annexure VII



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T C 4 0 3 2 2 2 0 0 0 0 4 8 5 F																	
Discipline	Chemical	Group	Pollution & Environment				Sample Description				Waste Water / Effluent Water									
Report Release Date		31 st March, 2022				Report ID				YBAEEL-220322-183133- WW01										
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/W/Mar-22/18										
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																		
Sampling Date		24/03/2022				Mode of sample collection				By YBAEEL Team										
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				220324-WW-A01										
Sampling Location		Effluent Treatment Plant Outlet				Sampling Source				Effluent Water										
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml										
Meteorological Cond. of Field		W.C.- Clear				RH % - 45				Temp. - 31°C										
Sample receipt Date		24/03/2022		Analysis Started on		24/03/2022		Analysis completed on		30/03/2022										

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	2.53	8.25	5.5 - 9.0
2.	Temperature	IS 3025 (P-09)	°C	1.55	29.6	--
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	8.26	16.0	100
4.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.44	13.4	--
5.	BOD	IS 3025 (P-44):2009	mg/l	6.85	16.0	30
6.	COD	IS 3025 (P-58):2006	mg/l	4.02	120.0	250
7.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	7.14	BDL (MDL 0.02)	2
8.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	16.09	BDL (MDL 0.01)	3
9.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	6.26	BDL (MDL 0.02)	0.1
10.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	6.57	0.08	5
11.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	4.37	14.8	--

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

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1996 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Shilvani Kumari Singh (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

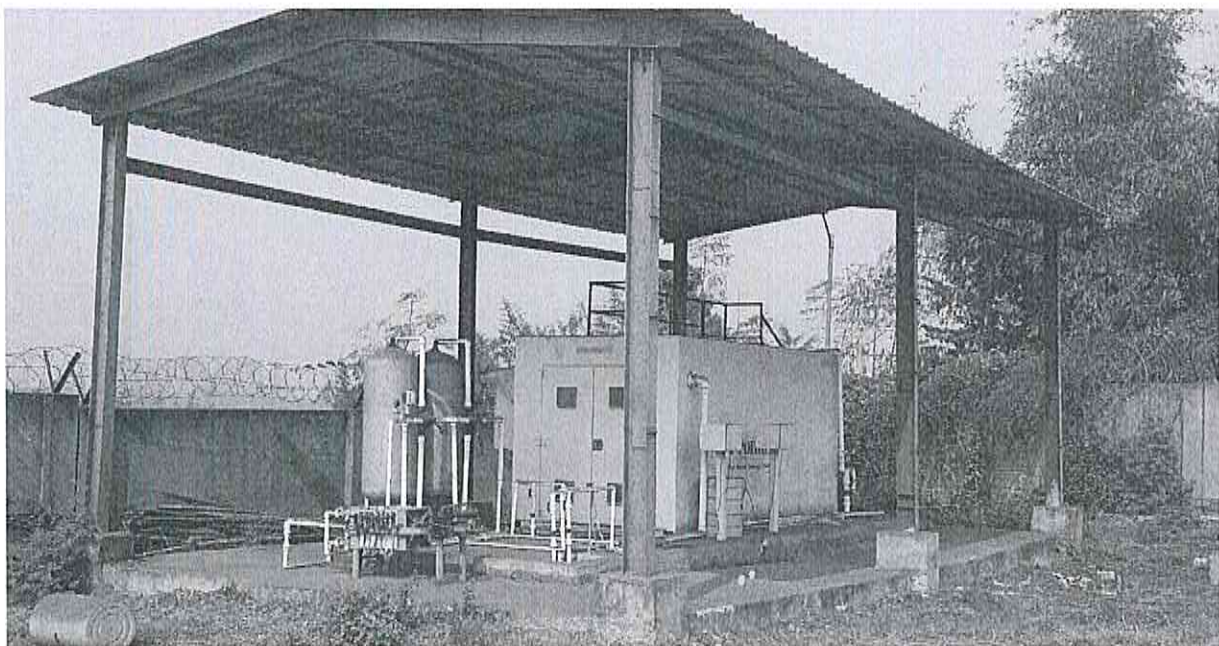
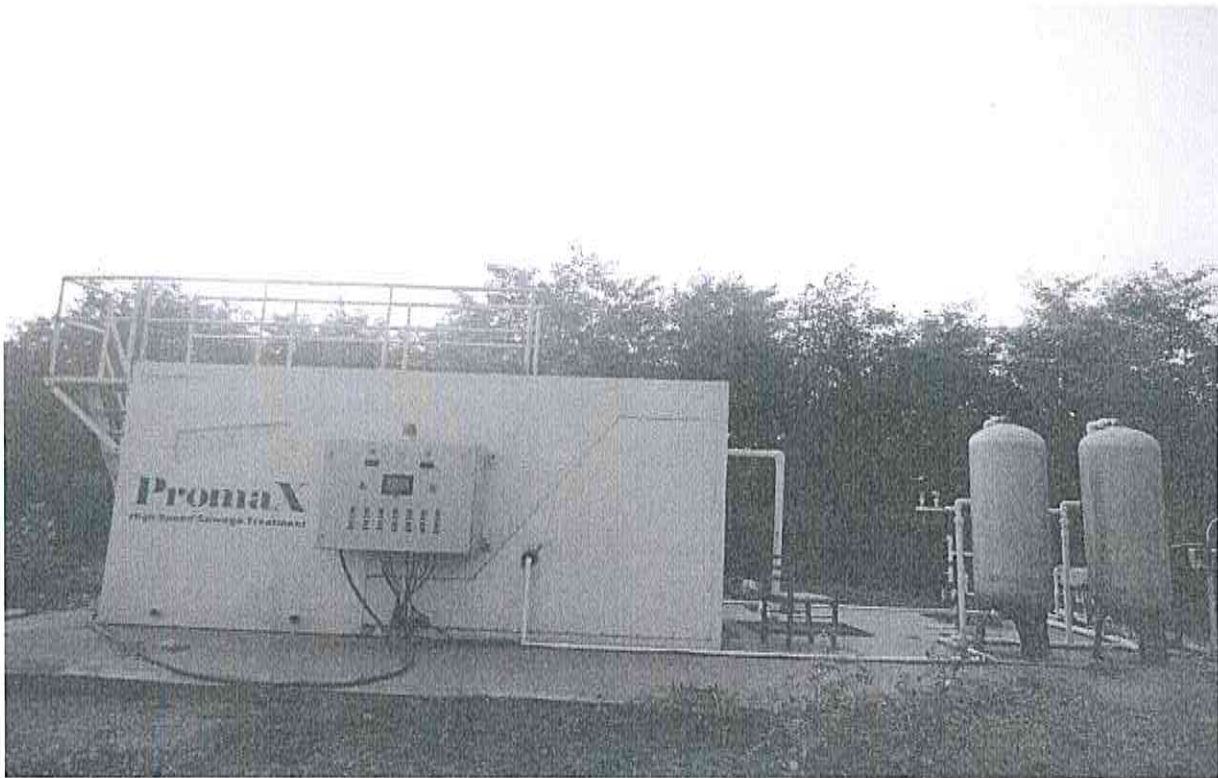
Technical Manager
Yugantar Bharati Analytical &
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Branch Office : - Jamshedpur | Dhanbad | Hazaribag | Pakur

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



Sewage Treatment Plant



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

अभिष्ठापनों में पेट्रोलियम के आयात और भंडारण के लिए अनुमति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

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

फीस रूप (Fee Rs.) 50000/- per year

M/s. Adhunik Power & Natural Resources Ltd., Village-Padampur, Behind PGCIL Substation,, Adityapur-Kandra Road,, Taluka: Adityapur(Gamharla), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832105 को केवल इसमें यथा विनिर्दिष्ट 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 उपाय है, में दिखाए गए स्थान पर भण्डारण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुमति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुमति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Adhunik Power & Natural Resources Ltd., Village-Padampur, Behind PGCIL Substation,, Adityapur-Kandra Road,, Taluka: Adityapur(Gamharla), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832105 valid only for the importation and storage of 5000.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/JH/15/1065 (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 this Licence.

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

पेट्रोलियम का विवरण /Description of Petroleum	अनुमति मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	5000.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	5000.00 KL

December 15, 2011

Chief Controller of Explosives

1). Amendment dated - 23/12/2011

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

अनुमति परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टताएं संलग्न अनुमोदित नक्शों 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 निम्नलिखित Two Petroleum ClassCAboveground storage tanks,togetherwith other connected facilities. सम्मिलित 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, PIN: 999999 and consists of Two Petroleum ClassCAboveground storage tanks,togetherwith other connected facilities. together with connected facilities.

पेज सं. 2

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

नवीनीकरण के पुष्टीकरण के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में यह अनुमति फिर से बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licensing 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

K. Thiagarajan
 सय मुखय विस्फोटक नियंत्रक, राँची
 Dy. Chief Controller of Explosives, Ranchi

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

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

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government of India Enterprise)

QUALITY CONTROL LABORATORY

Visakh New Terminal

CONVENT JN.-SHEELANAGAR ROAD, BEHIND AIRPORT,

VISAKHAPATNAM- 530014

TEST REPORT

Product : HP INDUSTRIAL DIESEL 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	Date of Sample Receipt	: 21/07/19
Tank No	: TK105	Date of Sample Testing	: 22/07/19
Qty of Sample/	: 1ltr uml / tk70/868.3 b.no.36/2019		
Density/Type of Sample		Date of Report	: 22/07/19
Catg / Evnt / Actvty	: Aft Receipt thru Dedicated P/L	Date of Printing	: 22/07/19
Receipt/Despatch Mode	: *	JDE Sample Number	: 865213
Sample Drawn by	: RAMAKRISHNA	Batch No	:

Test Line Number	Characteristics	Units	Test Method	Specifications		Result Value
				Min	Max	
5	DENSITY @ 15°C	Kg/m3	IS 1448 (P:16)	-	-	867.8
6	KINEMATIC VISCOSITY @ 40° C	cSt	IS 1448 P:25	2,500	15,000	4,860
7	FLASH POINT - PMCC	°C	IS 1448 P:21	65	-	79
8	WATER CONTENT	% Vol	IS 1448 P:10	-	.250	100
9	TOTAL SULPHUR	% Mass	ASTM D 4294	-	1.50	.47
10	POUR POINT SUMMER	°C	IS 1448 P:10	-	21	3

Remarks:

Sample S.No.BFT/271 meets specification as per IS-15770.2008(Reaffirmed2014) in the above 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



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	9	1	F	
Discipline	Chemical	Group	Water			Sample Description				Ground Water										
Report Release Date		31 st March, 2022					Report ID				YBAEEL-220322-183133– GW01									
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/Mar-22/16									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																		
Sampling Date		24/03/2022					Mode of sample collection				By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003					Sample Code				220324-GW-A01									
Sampling Location		Srirampur Borewell					Sampling Source				Ground Water									
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear					RH % - 45				Temp. - 31°C									
Sample receipt Date		24/03/2022		Analysis Started on			24/03/2022			Analysis completed on				30/03/2022						

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	6.89	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	5	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	576.0	--
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	192.0	200-600
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	180.0	200-600
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	280.0	500-2000
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
8.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	47.5	250-1000
9.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	0.6	1.0-1.5
10.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ ⁻ (B) 23 rd edition 2017	mg/l	11.33	2.52	45-No relaxation
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	55.2	75-200
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B : 2017	mg/l	1.90	10.21	30-100
13.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	18.7	200-400
14.	Sodium (as Na ⁺)	APHA 3111 B 23 rd edition 2017	mg/l	16.98	26.0	--
15.	Potassium (as K ⁺)	APHA 3111 B 23 rd edition 2017	mg/l	9.21	3.0	--

*****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. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Prem Kumar (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
Ph : 09835-97960, 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	Ground Water
Report Release Date	31 st March, 2022			Report ID	YBAEEL-220322-183133- GW01
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/Mar-22/16
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Date	24/03/2022			Mode of sample collection	By YBAEEL Team
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003			Sample Code	220324-GW-A01
Sampling Location	Srirampur Borewell			Sampling Source	Ground Water
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml
Meteorological Cond. of Field	W.C.- Clear			RH % - 45	Temp. - 31°C
Sample receipt Date	24/03/2022	Analysis Started on	24/03/2022	Analysis completed on	30/03/2022

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	--	--	Agree.	Agreeable
2.	Taste	IS 3025 (P-07):2002	--	--	Agree.	Agreeable
3.	Cyanide (as CN ⁻)	IS 3025 (P-27)	mg/l	--	BDL (MDL 1.0)	0.05-No relaxation

*****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. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Prem Kumar (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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ISO 45001:2018



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	9	3	F
Discipline	Chemical	Group	Water		Sample Description				Residue & Contaminants in Water										
Report Release Date		31 st March, 2022				Report ID				YBAEEL-220322-183133– GW01									
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/R/Mar-22/06									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		24/03/2022				Mode of sample collection				By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				220324-GW-A01									
Sampling Location		Srirampur Borewell				Sampling Source				Ground Water									
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear				RH % - 45				Temp. - 31°C									
Sample receipt Date		24/03/2022		Analysis Started on		24/03/2022		Analysis completed on		30/03/2022									

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.01-No relaxation
2.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.05-1.5
3.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.75	1.0-No relaxation
4.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01-No relaxation
5.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	0.18	5-15
6.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003-No relaxation
7.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001-No relaxation
8.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05-No relaxation
9.	Nickel (as Ni)	APHA 3111 B 23 rd edition 2017	mg/l	13.72	BDL (MDL 0.02)	0.02-No relaxation
10.	Cobalt (Co)	APHA 3111 B 23 rd edition 2017	mg/l	28.33	BDL (MDL 0.03)	--

*****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 186:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Shivani Kumari Singh (Lab Analyst)

Verified by Bij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
--	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

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



Test Certificate

Discipline	Chemical	Group	Water	Sample Description	Residue & Contaminants in Water
Report Release Date	31 st March, 2022			Report ID	YBAEEL-220322-183133- GW01
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/R/Mar-22/06
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Date	24/03/2022			Mode of sample collection	By YBAEEL Team
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003			Sample Code	220324-GW-A01
Sampling Location	Srirampur Borewell			Sampling Source	Ground Water
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml
Meteorological Cond. of Field	W.C.- Clear			RH % - 45	Temp. - 31°C
Sample receipt Date	24/03/2022	Analysis Started on	24/03/2022	Analysis completed on	30/03/2022

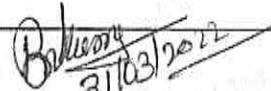
*****Test Results*****

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l	--	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 $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Shivani Kumari Singh (Lab Analyst)

 31/03/2022	 31/03/22
Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	7	4	F
Discipline	Biological	Group	Water				Sample Description				Ground Water								
Report Release Date		31 st March, 2022					Report ID				YBAEEL-220322-183133— GW01								
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/Mar-22/05								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. VIII.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		24/03/2022					Mode of sample collection				By YBAEEL Team								
Sampling Protocol		IS : 1622:1982, R - 2019					Sample Code				220324-GW-A01								
Sampling Location		Srirampur Bore well					Sampling Source				Ground Water								
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				250 ml								
Meteorological Cond. of Field		W.C.— Clear					RH % - 45				Temp. - 31°C								
Sample receipt Date		24/03/2022			Analysis Started on			25/03/2022			Analysis completed on			27/03/2022					

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

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	
3.	E coli	APHA 9221-F 22 nd Edition 2012	MPN/100 ml	BDL (MDL 1.1)	

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

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

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

 Verified by: Mukesh Kumar Authorized Signatory Microbiological Section Yugantar Bharati Analytical & Environmental Engineering Laboratory				 Issued by: Umesh Das Technical Manager Yugantar Bharati Analytical & Environmental Engineering Laboratory			
Branch Office :-	Jamshedpur	Dhanbad	Hazaribag	Patna			



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

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	9	2	F
Discipline	Chemical	Group	Water			Sample Description				Ground Water									
Report Release Date		31 st March, 2022				Report ID				YBAEEL-220322-183133– GW02									
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/LC/Mar-22/16									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		24/03/2022				Mode of sample collection				By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				220324-GW-A02									
Sampling Location		Padampur Borewell				Sampling Source				Ground Water									
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear				RH % - 45				Temp. - 31°C									
Sample receipt Date		24/03/2022		Analysis Started on		24/03/2022		Analysis completed on		30/03/2022									

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	6.79	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	5	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	520.0	--
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	104.0	200-600
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	170.0	200-600
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	252.0	500-2000
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
8.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	44.5	250-1000
9.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	0.4	1.0-1.5
10.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ ⁻ (B) 23 rd edition 2017	mg/l	11.33	12.48	45-No relaxation
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	48.0	75-200
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B : 2017	mg/l	1.90	12.15	30-100
13.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	40.1	200-400
14.	Sodium (as Na ⁺)	APHA 3111 B 23 rd edition 2017	mg/l	16.98	24.0	--
15.	Potassium (as K ⁺)	APHA 3111 B 23 rd edition 2017	mg/l	9.21	2.8	--

*****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. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Prem Kumar (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
Ph : 09835-97960, 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	Ground Water
Report Release Date	31 st March, 2022			Report ID	YBAEEL-220322-183133– GW02
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/Mar-22/16
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. VIII.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Date	24/03/2022			Mode of sample collection	By YBAEEL Team
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003			Sample Code	220324-GW-A02
Sampling Location	Padampur Borewell			Sampling Source	Ground Water
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml
Meteorological Cond. of Field	W.C.– Clear			RH % - 45	Temp. - 31°C
Sample receipt Date	24/03/2022	Analysis Started on	24/03/2022	Analysis completed on	30/03/2022

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	--	--	Agree.	Agreeable
2.	Taste	IS 3025 (P-07):2002	--	--	Agree.	Agreeable
3.	Cyanide (as CN ⁻)	IS 3025 (P-27)	mg/l	--	BDL (MDL 1.0)	0.05-No relaxation

*****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 198:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Prem Kumar (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

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ISO 45001:2018



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	9	4	F
Discipline	Chemical	Group	Water			Sample Description				Residue & Contaminants in Water									
Report Release Date		31 st March, 2022				Report ID				YBAEEL-220322-183133– GW02									
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/R/Mar-22/06									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		24/03/2022				Mode of sample collection				By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				220324-GW-A02									
Sampling Location		Padampur Borewell				Sampling Source				Ground Water									
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear				RH % - 45				Temp. - 31°C									
Sample receipt Date		24/03/2022		Analysis Started on		24/03/2022		Analysis completed on		30/03/2022									

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

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.01-No relaxation
2.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.05-1.5
3.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.72	1.0-No relaxation
4.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01-No relaxation
5.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	0.19	5-15
6.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003-No relaxation
7.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001-No relaxation
8.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	0.16	0.05-No relaxation
9.	Nickel (as Ni)	APHA 3111 B 23 rd edition 2017	mg/l	13.72	BDL (MDL 0.02)	0.02-No relaxation
10.	Cobalt (Co)	APHA 3111 B 23 rd edition 2017	mg/l	28.33	BDL (MDL 0.03)	..

*****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 196:1996 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Anagad Munda
Tested By : Shivan Kumari Singh (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umash Das Technical Manager
---	---

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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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	Residue & Contaminants in Water
Report Release Date	31 st March, 2022			Report ID	YBAEEL-220322-183133- GW02
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/R/Mar-22/06
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Date	24/03/2022			Mode of sample collection	By YBAEEL Team
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003			Sample Code	220324-GW-A02
Sampling Location	Padampur Borewell			Sampling Source	Ground Water
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml
Meteorological Cond. of Field	W.C.- Clear			RH % - 45	Temp. - 31°C
Sample receipt Date	24/03/2022	Analysis Started on	24/03/2022	Analysis completed on	30/03/2022

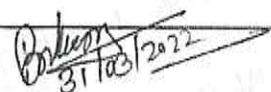
*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l	---	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 $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By : Angad Munda
Tested By : Shilvani Kumari Singh (Lab Analyst)

 31/03/2022	 31/03/22
Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

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

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	7	5	F
Discipline	Biological	Group		Water			Sample Description				Ground Water								
Report Release Date		31 st March, 2022					Report ID				YBAEEL-220322-183133– GW02								
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/Mar-22/05								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. VIII.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		24/03/2022					Mode of sample collection				By YBAEEL Team								
Sampling Protocol		IS : 1622:1982, R - 2019					Sample Code				220324-GW-A02								
Sampling Location		Hariharpur Bore well					Sampling Source				Ground Water								
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				250 ml								
Meteorological Cond. of Field		W.C.– Clear					RH % - 45				Temp. - 31°C								
Sample receipt Date		24/03/2022		Analysis Started on			25/03/2022			Analysis completed on				27/03/2022					

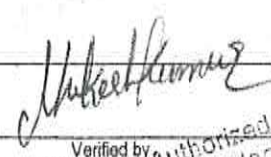
*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	
3.	E coli	APHA 9221-F 22 nd Edition 2012	MPN/100 ml	BDL (MDL 1.1)	

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

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

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

Verified by:  Mukesh Kumar Section In-Charge		Issued by:  Umesh Das Technical Manager	
Authorized Signatory Microbiological Section Yugantar Bharati Analytical & Environmental Engineering Laboratory		Technical Manager Yugantar Bharati 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			





YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T C 4 0 3 2 2 2 0 0 0 0 0 4 7 9 F															
Discipline	Chemical	Group	Atmospheric Pollution				Sample Description				Work Zone Noise							
Report Release Date		31 st March, 2022				Report ID				YBAEEL-220322-183133- N01								
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/LA/Mar-22/38								
Report issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Period		21/03/2022 – 22/03/2022				Mode of sample collection				By YBAEEL Team								
Sampling Protocol		IS : 9989:1981 (RA 2020), CPCB (Factory Act 1948)																
Meteorological Cond. of Field		W.C.– Clear				RH % - 40				Temp. - 33°C								
Sample receipt Date		23/03/2022		Analysis Started on		23/03/2022		Analysis completed on		26/03/2022								

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

Sl	Locations	Parameters	Units	MU %	Day Time	Night Time	Limit
1.	Near CHP Area	Leq	dB (A)	1.003	64.1	63.1	85
2.	Cooling Tower	Leq	dB (A)	1.003	83.2	81.1	
3.	Turbine Floor	Leq	dB (A)	1.003	82.3	80.9	
4.	Pump House	Leq	dB (A)	1.003	79.5	77.6	
5.	Compressor House	Leq	dB (A)	1.003	84.7	84.2	

*****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 $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 195:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limit.

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

 Verified by Brij Nandan Kumar Section In-Charge		 Issued by Umesh Das Technical Manager	
---	--	---	--

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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ISO 9001:2015
ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	8	0	F
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Ambient Noise						
Report Release Date		31 st March, 2022					Report ID					YBAEEL-220322-183133- N02							
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/LA/Mar-22/41							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Period		22/03/2022 – 23/03/2022					Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS 9989:1981 (RA 2020) & CPCB Method S.O.50 (E) dated 11/01/2010																	
Meteorological Cond. of Field		W.C.– Cloudy					RH % - 41					Temp. - 28°C							
Sample receipt Date		24/03/2022		Analysis Started on			24/03/2022			Analysis completed on			28/03/2022						

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

Sl	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.	Sati Steel	Leq	dB (A)	1.32	56.3	53.7	Day – 75 Night – 70
2.	Reservoir	Leq	dB (A)	1.32	55.1	52.1	
3.	Occupational Health Centre	Leq	dB (A)	1.32	58.7	55.1	
4.	Near Main Gate	Leq	dB (A)	1.32	63.3	54.2	

*****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 such by the competent authority. - Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority. - dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.	Area	Unit	Day Time	Night time
	A Industrial Area	dB (A)	75.0	70.0
	B Commercial Area	dB (A)	65.0	55.0
	C Residential Area	dB (A)	55.0	45.0
	D Silence Zone	dB (A)	50.0	40.0

Limit is specified as	Noise pollution (Regulation & Control) Rules, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 198:1956 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limit.

Sample Drawn By – Angad Munda
Tested By – Amit Kumar Sinha (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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Jharkhand State Pollution Control Board (JSPCB)
ISO 9001:2015 & ISO 45001:2018



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	8	3	F						
Discipline	Chemical	Group	Atmospheric Pollution						Sample Description						Ambient Air Quality (Core Zone)										
Report Release Date		31 st March, 2022						Report ID						YBAEEL-220322-183133- A01											
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/LA/Mar-22/38											
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																							
Sampling Period		21/03/2022 – 22/03/2022						Mode of sample collection						By YBAEEL Team											
Sampling Protocol		IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)																							
Sampling Locations		A. Bachelor Hostel						B. Switch Yard						C. Sati Steel (CHP Area)											
Meteorological Cond. of Field		W.C.– Clear						RH % - 40						Temp. - 33°C						W.D.– West-East					
Sample receipt Date		23/03/2022				Analysis Started on				23/03/2022				Analysis completed on				26/03/2022							

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

Parameters	Test Methods	Units	MU %	Sampling Location			Limits
				Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2017	µg/m ³	2.68	83.1	93.6	87.6	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m ³	2.60	53.3	57.1	51.2	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m ³	7.84	22.3	28.5	25.4	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	4.17	48.6	50.8	55.1	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	3.7	21.2	27.1	23.5	400
Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	9.09	21.4	25.0	23.2	180 (1 hr.)
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m ³	7.95	0.096	0.222	0.182	1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m ³	14.71	BDL (MDL- 4)	BDL (MDL- 4)	BDL (MDL- 4)	--
Arsenic (As)	USEPA - IO 3.2	ng/m ³	2.05	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	--

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

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

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

Verified by Brijnandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
--	---

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
Ph : 09835-97960, 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	Atmospheric Pollution	Sample Description	Ambient Air Quality (Core Zone)
Report Release Date	31 st March, 2022	Report ID	YBAEEL-220322-183133- A01		
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/A/Mar-22/38		
Report issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Period	21/03/2022 – 22/03/2022	Mode of sample collection	By YBAEEL Team		
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)				
Sampling Locations	A. Bachelor Hostel	B. Switch Yard	C. Sati Steel (CHP Area)		
Meteorological Cond. of Field	W.C.- Clear	RH % - 40	Temp. - 33°C	W.D.- West-East	
Sample receipt Date	23/03/2022	Analysis Started on	23/03/2022	Analysis completed on	26/03/2022

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

Parameters	Test Methods	Units	MU %	Sampling Location			Limits
				Site A	Site B	Site C	
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR01	mg/m ³	--	1.8	1.8	BDL (MDL 1.8)	--
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	µg/m ³	10.94	BDL (MDL 0.06)	BDL (MDL 0.06)	BDL (MDL 0.06)	--
Benzo (a)pyrene (BaP) (Particulate Phase Only)	IS:5182 (P-12) 2004	ng/m ³	--	BDL (MDL 0.2)	BDL (MDL 0.2)	BDL (MDL 0.2)	--

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

Limit is specified as	-----
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 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 Drawn By -- Angad Munda
Tested By -- Amit Kumar Sinha (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
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



ISO 45001:2018



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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



TC-4032

Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	4	8	4	F
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Ambient Air Quality (Buffer Zone)						
Report Release Date		31 st March, 2022					Report ID					YBAEEL-220322-183133- A02							
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/LA/Mar-22/41							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Period		22/03/2022 – 23/03/2022					Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)																	
Sampling Locations		A. - Pindrabera Village					B. - Srirampur Village					C. - Padampur Village							
Meteorological Cond. of Field		W.C.– Cloudy				RH % - 41				Temp. - 28°C				W.D.– NE-SW					
Sample receipt Date		24/03/2022		Analysis Started on			24/03/2022			Analysis completed on			28/03/2022						

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

Parameters	Test Methods	Units	MU %	Sampling Location			Limits
				Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2017	µg/m ³	2.68	90.0	88.6	77.9	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m ³	2.60	58.8	50.4	47.0	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m ³	7.84	23.1	26.9	23.1	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	4.17	51.8	48.6	51.8	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	3.7	25.1	28.0	21.9	400
Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	9.09	23.4	31.0	22.4	180 (1 hr.)
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m ³	7.95	0.177	0.151	0.202	1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m ³	14.71	BDL (MDL- 4)	BDL (MDL- 4)	BDL (MDL- 4)	--
Arsenic (As)	USEPA - IO 3.2	ng/m ³	2.05	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	--

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

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1956 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limits.

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

Verified by BrijNandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
--	---

Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
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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	Atmospheric Pollution	Sample Description	Ambient Air Quality (Buffer Zone)
Report Release Date	31 st March, 2022	Report ID	YBAEEL-220322-183133- A02		
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/A/Mar-22/41		
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand				
Sampling Period	22/03/2022 - 23/03/2022	Mode of sample collection	By YBAEEL Team		
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)				
Sampling Locations	A. Pindrabera Village	B. Srirampur Village	C. Padampur Village		
Meteorological Cond. of Field	W.C.- Cloudy	RH % - 41	Temp. - 28°C	W.D.- NE-SW	
Sample receipt Date	24/03/2022	Analysis Started on	24/03/2022	Analysis completed on	28/03/2022

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

Parameters	Test Methods	Units	MU %	Sampling Location			Limits
				Site A	Site B	Site C	
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m ³	--	1.8	BDL (MDL 1.8)	BDL (MDL 1.8)	--
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	µg/m ³	10.94	BDL (MDL 0.06)	BDL (MDL 0.06)	BDL (MDL 0.06)	--
Benzo (a)pyrene (BaP) Particulate Phase Only	IS:5182 (P-12) 2004	ng/m ³	--	BDL (MDL 0.2)	BDL (MDL 0.2)	BDL (MDL 0.2)	--

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

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 $\pm$ 5% in all testing areas as per IS 196:1966 (C)
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Remarks	-----

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

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
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ISO 45001:2018



ISO 9001:2015



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

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

Annexure I:

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



ADHUNIK POWER & NATURAL RESOURCES LIMITED

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Adityapur - Kandra Road, Saraikela - Kharsawan, PIN - 832402 Jharkhand
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CIN - U40101WB2005PLC102935

05.08.2016

Annexure I

Responsibilities of the members of the environment management cell

S. No.	Designation	Responsibility	Reporting to
01	Managing Director	Environmental policy and directions	
02	Plant Incharge	Overall responsibility for environmental management and decision making for all environmental issues	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.	Plant Incharge
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
06	Chemist	To initiate environmental monitoring as per approved schedule. Prepare & Submit the monitored results and corrective measures in case monitored results are above the specified limit.	Environment Manager
07	Horticulture officer	Responsible for development of Green belt & Land Scape on vacant land of Plant premises.	Environment Manager

Sr. Manager (HR)

CORPORATE OFFICE : "LANSLOWNE TOWER", 2nd Floor, 2/1A, Sarat Bose Road, Kolkata - 700 020
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Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC102935

Ref: MOE&F, RNC/HYC/KKJ/271121/01

Dated: 27.11.2021

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 I) for the period - April 2021 to September 2021 -Reg.

Ref:- MoEF letter No.J-13011/8/2009-IA.II(T), dated 29th Aug 2009.

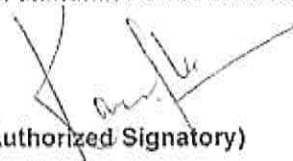
Sir,

With reference to the above referred Environmental Clearance, we are pleased to submit herewith the half yearly compliance status report (Unit I) for the period of April 2021 to September 2021.

This is for your reference and record, please.

Thanking you,

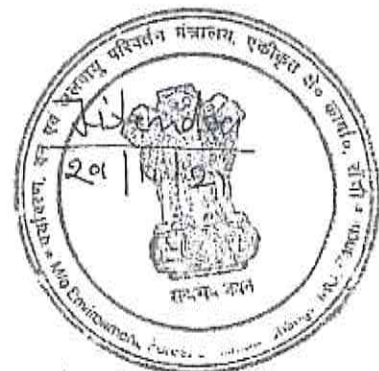
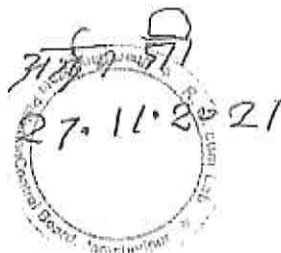
For Adhunik Power & Natural resources Limited


(Authorized Signatory)

Encl: As Above

Copy to:

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



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

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Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC102935

Ref No APNRL/JSPCB/ES/2020-21/01

Date: 20th Sep 2021

Member Secretary
Jharkhand State Pollution Control Board,
HEC Campus, Dhurva,
Ranchi, Jharkhand.

Sub- Submission of Environmental Statement (Form V) for Unit I (1 x 270 MW) of M/s
Adhunik Power & Natural Resources Limited, Village-Padampur, Dist-Saraikela-
Kharswan, Jharkhand.

Ref: Environmental Clearance letter No J-13011/8/2009-IA.II(T), Dated 29th Aug 2009.

Dear Sir,

In line with compliance of above referred EC letter point No XXX of general condition, Please
find attached herewith Environmental statement (Form V) for the financial year 2020-21.

This is for your kind information & record please.

Thanking You

Your's faithfully

Kamlesh Kumar
Manager (Environment)

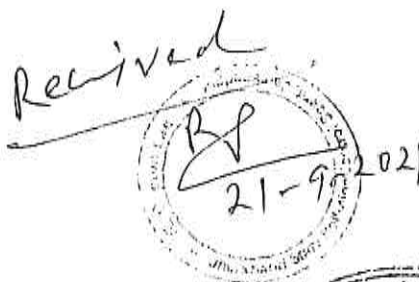
Encl: As mentioned above

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



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

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