

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

Ref: MOE&F, RNC/HYC/KKJ/261122/01

Dated: 26.11.2022

To,

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

Sub:- Submission of Half yearly compliance status report (Unit I) for the period – April 2022 to September 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 April 2022 to September 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, Warkhand

3. Regional Officer, JSPCB, Jamshedpur

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

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

REGD. OFFICE

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

Website : www.adhunikpower.com

REPORT

FOR 1X270 MW COAL BASED POWER PLANT (Unit I)



APRIL 2022 – SEPTEMBER 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: A	pril 2	2022 to	Septembe	r 2022
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	Period Of Compliances: April 2022 to September 2022			
SI No	EC Conditions	Status as on 30 st September 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 lar 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. 1st 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 Hig 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 September 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 2022-September 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		

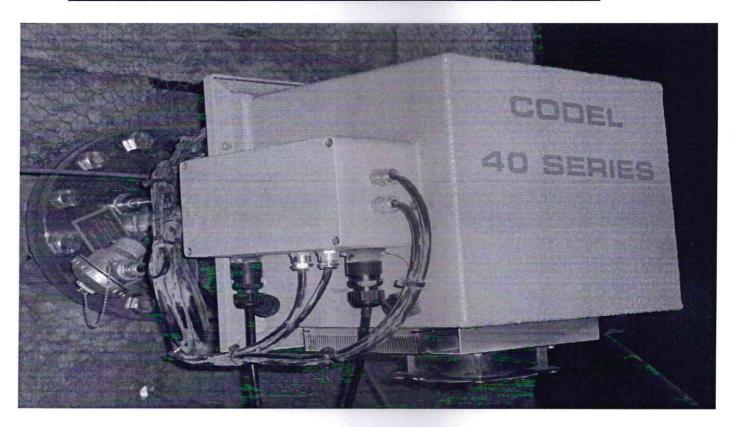
	bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	
10	Ash pond shall be lined with impervious lining. Adequate safety measures shall be implemented to protect the ash dyke from getting breached.	Complied
11	Closed cycling cooling 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 September 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 31st 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	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

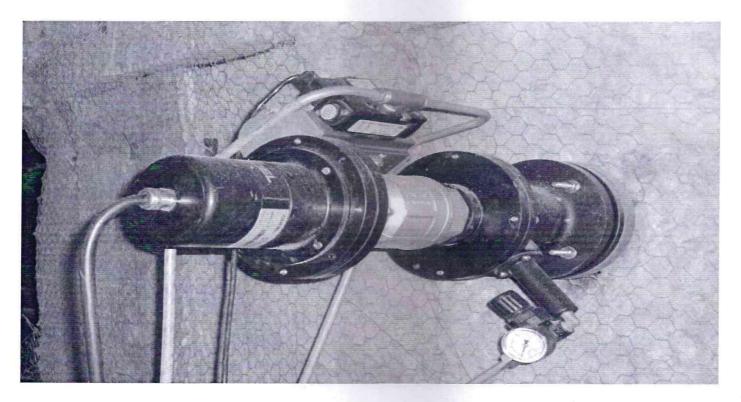
	shall be furnished to RO of ministry. The data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to the project.	data for the month of September 2022 enclosed as Annexure XI.
20	A green belt of adequate with and density 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 nonnoisy/less noisy areas.	Adequate measures has implemented in consistent with the EMP to control turbine noise levels within stipulated limits. This include installing of sufficient engineering control in turbines as per design specifications, provision of ear plugs/ear muffs for workers exposed to high noise, rotation of workers and carrying out periodic audiometric testing of workers and records is being maintained. Noise level monitoring report for the month of September 2022 As Annexure XII.
23	Regular monitoring of ground level concentration of SO2, NOx, 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 September 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	Complied.

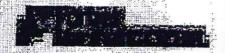
	may also be seen at Website of the MoEF at http://envfor.nic.in.	
26	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat Zila Praised/Municipal Corporation, urban local body and the local NGO, is any from whom suggestion/representation, if any were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	
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, SO2, NOx (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, SO2, NOx) 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	Last six monthly reports (Oct 2021 to March 2022) for the project along with environmental monitoring data submitted to MoEF RO at Ranchi vide letter No MOE&F,RNC/HYC/KKJ/280522/01 dated 28 th May 2022 . 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 (2021-2022) in Form V has submitted dated 20 th Sep 2022. 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, SO2, NOx) 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.

Continuous emission monitoring system







CODEL

		REF: DCEM2100/DS/02
		DATA SHEET DEEM 100 DUST MONITOR
GENI	ERAL	
	Make	Codel, UK.
2	Model	DCEM2100 Dust Monitor
3,	Туре	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/m3, 0-999mg/Nm3 (Fully site selectable)
7 8	Min. detectable conc.	I mg/m3
	Measurement Units	Fully selectable units-, mg/m3 (measured), mg/Nm3 (Normalized) and opacity(%)
9	Measurement averaging	Fully selectable in range 10sec to 30 days
10	Response time	90% in 5 seconds.
1111	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	1/- 0.1% of full scale
16:	Repeatability	+/-0.1% opacity
17	Power supply	88 - 264 VAC, 50-60 Iz, 125 VA
18	Remote/Local control unit	Isolated 2x 4-20 mA, 500 chms 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
	V.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
	CTIONS & DIMENSIONS	And the formation of the state
27	Analyzer mounting details	Analyser can be mounted in Chimney at Elevation of 91.6 Mtrs. Please refer drawing for analyser mounting flange details.
	Path length	Suitable for 0.5 to 12m duct/stack inner diameter
ACCESS		
29	Fail safe shutters	Built in
30	Air Purges	Air purges for continuous air supply to instrument provided
3.1	Interconnecting cables and mounting liardware	Included in supply:
32	Temp, transmitter	.24 VDC Supply
		Make: Precision Converter Model: PCHMR
Alakaisi (Range: 0.to 300 Deg C
	75. 17	Commence of the Commence of th





Ref: GCEM40A0/DS/02

			Ref: GCEM40A0/DS/02		
	1	ATA SH	IEET		
	CO. SO2.	NOx GA	S ANALYSER		
GENE					
1.	Make	CODEL I	nternational Ltd., UK		
2.	Model/Article No	GCEM400	00 Series Article no GCEM40A0		
3.	Туре		bsorption Analyser-In-Situ type		
4.	Qty	2 No.	osospeon Amaryser-m-ona type		
5.	Tag No.	SOx	HNE10CQ004		
	145110.	NOx	HNE10CQ001		
	-	CO	HNE10CQ002		
		100			
		T	FEATURES		
6.	Range		000ppm, 0 to 1000mg/m3, 0 to 1000mg/Nm3		
			1000ppm, 0 to 1000mg/m3, 0 to 1000mg/Nm3,		
	1	CO2: 0 to 2	1000ppm, 0 to 1000mg/m3, 0 to 1000mg/Nm3,		
		H2O:0 to			
			Above ranges are site selectable up to 3000 ppm		
7.	Min. detectable conc.		1 ppm, 1mg/m3, 1mg/Nm3 for CO,SO2,NOx & 0.5% for CO2,H2O.		
8.	Measurement Units	Fully selectable units-ppm or % by volume, mg/m3 (measured) and			
1720		mg/Nm3 (Normalised to temperature, pressure, H2O & CO2)			
9.	Measurement averaging		table 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,SO2, NOx,& 0.5% for CO2 & H2O			
14.	Zero /span drift(24hrs)	Over all drift less than +/-2% per month			
15.	Repeatability	Less than 2			
16.	Sensitivity		1 ppm for CO,SO2,NOx, 0.5% for CO2,H2O		
17.	Linearity	Less than 2			
18.	LCD Display		LCD with back light		
19.	Power supply		50-60Hz, +/-10% 400VA		
20.	Outputs	Analog: 5 x 4-20 mA isolated, max. 500 Ohms, full configurable from Keypad for CO,SO2,NOx in ppm & CO2,H2O 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		485 Modbus O/P		
22.	Construction material	The Property of the Control of the C	Housings (DDU): Corrosion resistant, epoxy coated		
	and Enclosures	Aluminium housing sealed to IP 66 Probe: SS316L			

DESIG	IN CONDITIONS	
23.	Infrared source	Heater cartridge assembly
24.	Infrared detector	Lead selenid detecter
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





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.
ACCE	SSORIES	
29	Standard span gas for calibration	Make: Chemtron Science Laboratory, Mumbai Material: Aluminium Cylinder Capacity: 10 ltr W.C Filled with: 500ppm CO, 500ppm SO2, 500ppm NO and balance Nitrogen (N2) Cylinder with SS regulator, necessary tubing's & fittings. Filled pressure: filled at 120-130kg/cm2
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



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



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

ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	NAME OF THE OWNER.	T C 4 0	3 2 2 2 0 0	0 0 0 1 6 2 2 F
Discipline Chemical .	Group	Atmospheric Pollut	ion Sample Description	Stationary Source Emission
Report Release Date	30th September	er, 2022	Report ID	YBAEEL-220920-114052-S1
W. Order/ JSPCB App. No.	3030005781		Work Order Date	18.12.2021
Type of Industry(If any) Thermal Power Plant		r Plant	Job code/ Ref. no.	YBAEELWA/L/A/Sep-22/28
Report Issue to		Power & Natural Re pur, PGCILS, Kandr	sources Ltd. a – 832402, Jharkhand.	WAL ENCEREE
Sampling Period	23/09/2022	N.	lode of sample collection	By YBAEEL Team
Sampling Protocol	IS: 11255 & CF	CB Guideline (Lats/8)		- ENT
Meteorological Cond. of Field	W.C Clear		RH % - 67	Temp 32°C

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General	Sections	Action 18
General	BHOHI	iauun:

As observed while san	pling	As reported by customer		
Location	Sampling port hole	Type of fuel Used	Coal	
Platform	Permanent	Quantity of Fuel Used(During Sampling)	150 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 *****

SI	Parameters	Test Method	Units	MU %	Results	Limits	
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k		447.0		
2.	Stack gas Velocity	ty IS 11255 (Part 3)2008 m/s			25.5	The CIV	
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm³/hr		823032,9699		
3.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm³	2.12	42.2	50	
4.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm³	3.06	1350.0	600	
5.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm³	2.70	712.0	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.	34.7	1-2-2
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	kg/hr.	1111.0	
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	kg/hr.	586.1	

	******End of Report****
imit is specified as	Environmental (Protection) Rule – 1986.

Appleviation	ML/L: Minimum detection limit. BUL: 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.
- 01°	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise
	The Eablith of the Laboratory of the Laboratory of the Control of

The liability of the laboratory is limited to the invoiced at 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** - Akash Khalkho (Lab Analyst)

30-09-22	30 10 12
· Verified by	- Issued by
Sanjeev Kumar Singh	Umesh Das
Deputy Technical Manager	. Authorized Signatory

Authorized Signatory Atmospharic Pobation Yugantar Bharati Analytical & **Environmental Engineering Laboratory**

Pakur



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





YUGANTAR BHARATI ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by: -

Jharkhand State Pollution Control Board (JSPCB)

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline (Chemical	Group	Atmospheric Pollu	tion Sample Descriptio	n Stationary Source Emission
Report Release Date W. Order/ JSPCB App. No.		30th September, 2022 3030005781		Report ID	YBAEEL-220920-114052-S1
				Work Order Date	18.12.2021
Type of Indust	try(if any)	Thermal Pow	er Plant	Job code/ Ref. no.	
			Power & Natural Re		CALL ST.
Sampling Perio	od ANGRATE	Vill Padam	pur, PGCILS, Kandr	a – 832402, Jharkhand.	in a second
		Vill Padam 23/09/2022	pur, PGCILS, Kandr	a - 832402, Jharkhand.	
Sampling Perion Sampling Protogological		Vill Padam 23/09/2022	pur, PGCILS, Kandr N PCB Guideline (Lats/8	a - 832402, Jharkhand.	in a second second

General Information

As observed while sam	npling	As reported by customer		
Location	Sampling port hole	Type of fuel Used	Coal	
Platform	Permanent	Quantity of Fuel Used(During Sampling)	150 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 *****

SI Parameter	Test Method	Units	MU %	Results	Limits	
1. Mercury (as Hg)	Lat's/80/2013-14	mg/Nm³		BDL (MDL 0.003)	0.03	

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

Limit is specified as	Environmental (Protection) Rule 1986.
Abbreviation	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
NAME OF TAXABLE PARTY.	This report cannot be reproduced, except when in full, without the written permission of the CEO
图 海洲	The samples collected shall be destroyed after 7 days from the date of issue of the pertificate unless specified otherwise.
That Mr.	The liability of the laboratory is limited to the invoiced amount
	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By

- Angad Munda

Tested By

- Akash Khaikho (Lab Analyst)

- au-mal	7 200
32vmal 2022	3018122
Verined by	ssued by
Sanjeev Kumar Singh	Umesh Das
Deputy Technical Manager	. Authorized Signatory

Authorized Signatory Atmospharic Pollution Yugantar Bharati Analytical & Environmental Engineering Laboratory

MANTAR WINESTS

ISO 45001:2018

Branch Office : - Jamshedpur

Dhanbad

azaribad

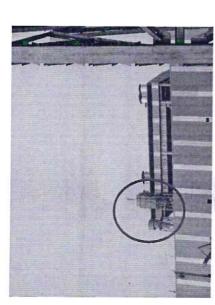
ISO 9001:2015

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

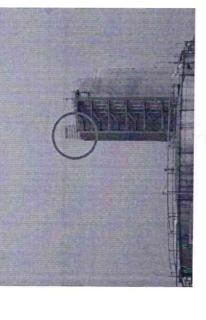
Bag Filter installed at Coal mill building

Bag Filter installed at Ash silo

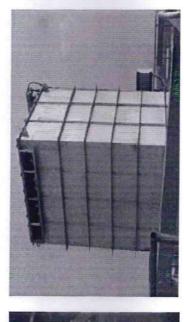
Bag filter at buffer hopper



Dust suppression through Tanker



Fixed type DS system for coal Conveyor



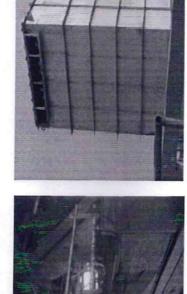


Closed type coal conveying system

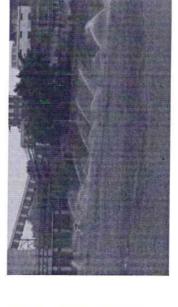




DE system at Coal Crusher House



Fixed type DS system at Coal Yard



Adhunik Power & Natural Resource Limited

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

		Ash	Generati	Mod	e of Ash Util	ization			
SI. No.	Months	Coal Consumed	Ash Contents of Coal (%)	Fly Ash Generation	Fly Ash Utilization	%age Utilization	In Making of Fly Ash Based bricks /Blocks /Tiles etc	In manufacturing of Portland Pozzolana Cement	Part replacement of cement in concrete
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
_ 1	APRIL	212264.1	38.61	81957.94	66569.94	81.2%	6493.49	56528.09	3548.36
2	MAY	253516	46.57	118060.05	82846.76	70.2%	4058.37	75643.70	3144.69
3	JUNE	223998.1	43.04	96408.52	81947.24	85.0%	3643.77	73444.90	4858.57
4	July	177268	44.66	79159.77	67285.81	85.0%	1960.79	61244.83	4080.19
5	August	236245.5	39.44	93167.6	77746.45	83.4%	1802.39	72883.32	3060.74
6	Sep	228920.8	46.32	106041.3	89956.42	84.8%	3193.78	82747.03	4015.61
	Total	1332212	43.11	574795.2	466352.61	81.6%	21152.574	422491.87	22708.16



YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

& ENVIRON

Certified by:-

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

BHARATE

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline Chemical	Group F	Pollution & Environme	nt Sample Des	crintion	ASH	
Report Release Date	30th Septem		Report ID	on puon		20020 441272 222
W. Order/ JSPCB App. No.	3030005781 Thermal Power Plant			Work Order Date Job code/ Ref. no.		20920-114052- S02
Type of Industry(If any)						VA/L/S/Sep-22/01
Sampling Date	Vill Pada	nik Power & Natural ampur, PGCILS, Kan	dra – 832402, Jharl		126.75	PLOIS L
Sampling Protocol		- 4 4) 4057 D 4445		Mode of sample collection Sample Code		L Team
	The second secon	art-1) 1987, R-2003	Sample Code			220926-S-E02
Sampling Location	Hopper	Hopper		Sampling Source		h - 8 - 18 - 18 - 1
Sample pkg. Condition	Sealed Paci	Sealed Pack in Zipper Bag		Sample Quantity		rox.
Meteorological Cond. of Field	W.C Clear	ALC: VIII TO THE REAL PROPERTY OF THE PARTY	RH % - 68			
Sample receipt Date	26/09/2022	Analysis Started	A PARTY OF THE PAR		Temp 31°C	

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

SI	Parameter	Test Method	Units	MU%	n
1.	Iron (as Fe)	USEPA 3050 B :1996/APHA 3111 B	Units	MU 76	Results
2.	Zinc (as Zn)		ppm	2.73	20.66
3.	Copper (as Cu)	USEPA 3050 B :1996/APHA 3111 B	ppm	4.44	0.21
4.		USEPA 3050 B :1996/APHA 3111 B	ppm	10.18	0.04
	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	
6.	Cadmium (as Cd)	USEPA 3050 B :1996/APHA 3111 B			0.26
7.	Chromium (as Cr)	USEPA 3050 B :1996/APHA 3111 B	ppm	9.57	1.0
8.	Arsenic (as As)	USEPA 3050 B :1996/APHA 3114 B	ppm	5.44	0.34
9.	Mercury (Hg)	UCEDA 2050 B .1990/APRA 3114 B	ppm		0.098
10.	Unburn Carbon	USEPA 3050 B :1996/APHA 3112 B	ppm		0.04
14		IS 1727:1967	%	W. 100 H. 100	2.1
11,	Selenium (as Se)	USEPA 3050 B :1996/APHA 3114 B	ppm		0.04

Limit is specified as	
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit
Env. Condition of Lab	aboratory is maintaining. Towards and O.S. Delow defection with
Specific contractual	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
notes	THE VALUES SIG EXPLOSED IN 43 UNIT BIRD (ESUIS) ISSUED FAIRT ONly to the tested comple and popularly and popularly
CANAL AND SERVICE	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 expelled after
	The liability of the taporatory is limited to the invoiced amount
Daniel Control	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	

Sample Drawn By

Angad Munda

101 min 19,2022	309 32
Tested by	Verified & Issued by
Shivani Kumari Singh (Lab Analyst)	Umesh Das - Authorized Signatory

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

NAMED BURNEY

Branch Office : - | Jamshedpur Dhanbad





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**

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

ISO 9001:2015 & ISO 45001:2018





Accredited by: -

Test Certificate



******	act Re	culte		***
CF 181 FOR 24 SECTION	COLUC	Juits	Granders.	20000

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	2.53	7.75	
2.	Temperature	IS 3025 (P-09)	OC .	1.55	28,8	5.5 – 9.0
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	8.26	48.0	400
4.	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	3,44	70.5	100
5.	BOD	IS 3025 (P-44):2009	mg/l	6.85	8.8	30
6.	COD	IS 3025 (P-58):2006	mg/l	4.02	28.0	250
7.	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	mg/l	7.14	BDL (MDL 0.02)	
8.	Copper (as Cu)	APHA 3111 B 23rd edition 2017	mg/l	16.09	0.01	2
9.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	6.26	BDL (MDL 0.02)	3
10.	Zinc (as Zn)	APHA 3111 B 23rd edition 2017	mg/l	6.57	0.06	0.1
11.	Sulphate (as SO ₄ ² ·)	IS 3025 (P-24):2003	mg/l	4.37	28,2	5

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL: Minimum detection limit, BDL: Below detection limit,
Env. Condition of Lab	Laboratory is maintained. Expression arms, D.C. Below detection limit,
Specific contractual notes	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
	The state of the control of the state of the
THE PARTY OF THE P	
	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.
- CQOP	All disputes are subjected to the Ranchi Junsdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By Angad Munda

ALACH T	Juan 30.09.2022	2009le2
	Tested by	Verified & Issued by
	Shivani Kumari Singh	Unlesh Das
PART TO SERVICE	(Lab Analyst)	Authorized Signatory

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

Branch Office : -

Jamshedpur

Dhanbad

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







Accredited by: -

Certified by:-

YUGANTAR BHARATI **ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY**

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





Test Certificate

ULR (Unique Lab Report) No.	TAKAN T	T C 4 0	3 2 2 2 2	0 0 0	0 0 1	S A D F
Discipline Chemical	Group P	ollution & Environment	Sample Description	on	Waste Water	/ Effluent Water
Report Release Date	30th September	er, 2022	Report ID			20-114052- WW03
W. Order/ JSPCB App. No.	3030005781		Work Order Date	. A 91	18,12,2021	EU-114032- VVVVU3
Type of Industry(If any)	Thermal Powe	r Plant	Job code/ Ref. no.		YBAEEL/WA/L	ANIC 22/02
ON THE PARTY OF TH	Vill Padan	npur, PGCILS, Kandra	- 832402, Jharkhai	nd.		
Sampling Date	24/00/0000			AND ESTATE	a la resulta de la constanta d	ALC:
Sampling Date	24/09/2022		Mode of sample co	ollection	By YBAEEL T	eam eam
Sampling Protocol	IS : 3025 (Par	t-1) 1987, R-2003	Mode of sample co	ollection	By YBAEEL T 220926-WW-E	
Sampling Protocol Sampling Location		t-1) 1987, R-2003		ollection		:03
Sampling Protocol Sampling Location Sample pkg. Condition	IS : 3025 (Par		Sample Code Sampling Source	ollection	220926-WW-E	:03
Sampling Protocol Sampling Location	IS: 3025 (Par Ash Pond		Sample Code	ollection	220926-WW-E	:03

SPOSSOTOCH	Recuite	*****

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	2.53	8.36	6.5 - 8.5
2.	Temperature	IS 3025 (P-09)	°C	1.55	29.0	0.0 - 0.0
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	8.26	86.0	100
4.	Oil and grease	IS 3025 (P-39):2003	mg/l	14.60	9.0	20.0
5.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/l	7.86	BDL (MDL 0.003)	20.0
6.	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	_mg/l	7.14	BDL (MDL 0.02)	
7.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	6.26	BDL (MDL 0.02)	
8.	Mercury (as Hg)	APHA 3112 B 23rd edition 2017	mg/l	25.0	BDL (MDL 0.003)	A THINK THOU
9.	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	3.44	18.0	

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
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	This report cannot be reproduced, except when in full, without the written permission of the CEO.
No.	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless energified atheories.
100	The itability of the laboratory is limited to the invoiced amount.
and the second second	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By

July 2022	30 9 30
Tested by	Verified & Issued by
Shivani Kumari Singh	Umesh Das
(Lab Analyst)	Authorized Signatory

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

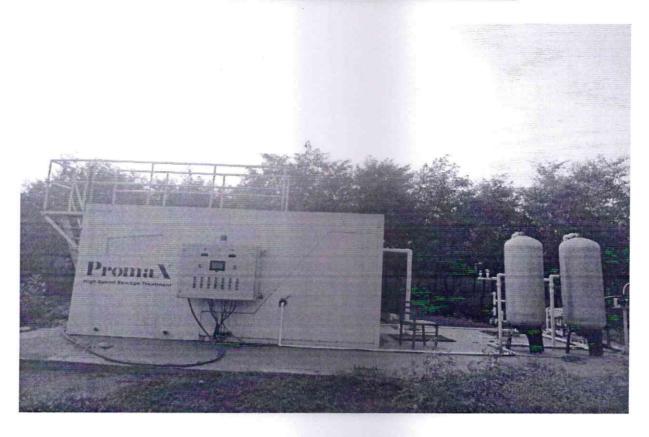
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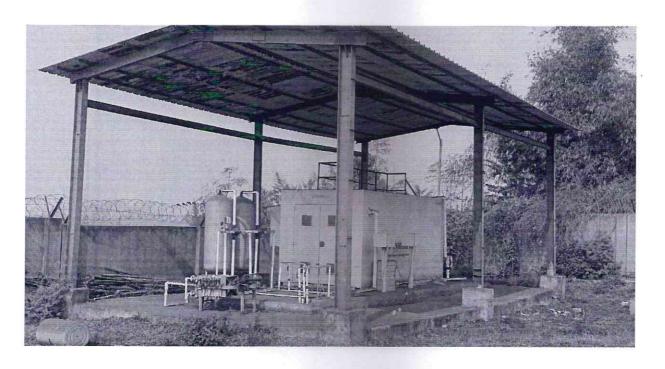


Branch Office : -Jamshedpur Dhanbad Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



Sewage Treatment Plant





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

अधिष्ठापनों में पेट्रोलियम के आयात और मंडास्करण के लिए अनुनिप्त LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

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



M/s. Adhunik Power & Natural Resources Ltd., Village-Padampur,Behind PGCIL Substation,, Adityapur-Kandra Road,, Taluka: Adityapur(Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832105 को केवल इसमें यथा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम 5000.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/JH/15/1065(P257355) तारीख 23/12/2011 जो कि इससे उपाबद हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन वनाए गए नियमों तथा इस अनुमन्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुमन्ति अनुदत्त की जाती हैं।

Licence is hereby granted to M/s. Adhunik Power & Natural Resources Ltd., Village-Padampur,Behind PGCIL Substation, Adityapur-Kandra Road, Taluka: Adityapur(Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832105 valid only for the importation and storage of 5000.00 KL 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 अनुजन्ति 31st day of December 2022 तक प्रवृत रहेगी । The Licence shall remain in force till the 31st day of December 2022

पेट्रोतियम का विवरण /Description of Petroleum	अनुजन्त मात्रा (किलोलीटर्स में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रयुंज 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 पेट्रोतियम /Petroleum Class C in bulk	5000.00 KL
वर्ग ग प्रपुंज पेट्रोतियम से भिन्न /Petroleum Class C,otherwise than in bulk	NIL NIL
कृत क्षमता /Total Capacity	5000.00 KL
2011	941-
	Chief Controller of Expl

1). Amendment dated - 23/12/2011

December 1

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

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

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

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

नवीनीकरण के पृष्ठांकन के लिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS

नवीकरण की तारीख समाप्ति की तारीख पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन अन्जापन प्राधिकारी के हस्ताक्षर और स्टाम्प Date of Date of बनाए गए नियमों या इस अनुजिन्त की शर्तों का Signature and office stamp of the licencing Renewal Expiry of license authority. उल्लंघन न होने की दशा में यह अन्तरित फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी | This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence. 1). 31/12/2013 PESO ADMIN Sd/-R.P.Singh Jt. Chief Controller of Explosives 2) 23/09/2013 31/12/2018 For Dy. Chief Controller of Explosives Ranchi K. Thiagarajan
Dy. Chief Controller of Explosives
Ranchi 3) 18/02/2019 31/12/2022

उप मुख्य विश्फोटक नियंत्रक, राँधी Dv. Chief Controller of Explosives, Ranchi

यदि अनुजन्ति परिसर इसमें उपाबद विवरण और शतों के अनुजप नहीं पाए जाते हैं और जिन नियमों और शतों के अधान यह अनुजन्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुजन्ति रद की जा सकती है और अनुजन्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

कि हो सकता है, या जुमान से, जा एक हजार रुपय तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुमान से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा |
This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government of India Enterprise)

QUALITY CONTROL LABORATORY

Visakha New Terminal CONVENT JN .- SHEELANAGAR ROAD, BEHIND AIRPORT, VISAKHAPATNAM- 530014

TEST REPORT

Product : HP INDUSTRIAL DIESEL OIL

Customer / Supplier /

NBOT-BONDED TANKS-PSD

Test Report No.

: BFT/10835

Branch Plant

Date of Sample Drawn

Source of Samole

: TK105

: 20/07/19

Tank No

: TK105 .

Date of Sample Receipt

: 21/07/19

Oly of Sample/

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

Date of Sample Testing

: 22/07/19

Density/Type of Sample

Catg / Evnt / Actyty

Date of Report

: 22/07/19

Receipt/Despatch Mode

: Aft Receipt thru Dedicated P/L

Date of Printing JDE Sample Number

22/07/19

Sample Drawn by

: RAMAKRISHNA

865213

Batch No

4)	A Transportation of the second			Specifi	cations	
Test Line Number	Characteristics	Units	Test Method	Min	Max	Result Value
2000	DENSITY@ 15°C KINEMATIC VISCOSITY @ 40°C	Kg/m3 oSI	IS 1446 [P:16]	Marie Marie	-	857.8
7.	FLASH POINT - PMCQ WATER CONTENT	*c	IS 1448 P :25	2.500 55	15.000	4,860
9 .	TOTAL SULPHUR	% Vol. % Mass	IS 1448 P;40 ASTM D 4294	•	.250	/100
10,	POUR POINT SUMMER	*c	IS 1448 P:10	· · · · · · · · · · · · · · · · · · ·	1.50 21	.47 .3
200						

Remarks:

Sample S.No.BFT/271 meets specification as per IS-15/70:2008(Reallimed2014) in the acove parameters

Appearance : Light Brown

Notas: 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



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





Test Certificate

ULR (Unique Lab Report) No.		T	C	4	0	3 2	2	2	0	0	0	0	0	11	6		2	8	F
Discipline Chemical	Group		Water	No.		Samp	e Des	cripti	on			G	ound	Wate	r				
Report Release Date	30th Septemb	er, 202	22	11		Repor	t ID					Y	BAEE	L-220	920-	114	052-	GW	01
W. Order/ JSPCB App. No.	3030005781					Work	Order	Date			F	18	.12.2)21		NI.			
Type of Industry(If any)	Thermal Pow	er Pla	nt U			Job c	ode/ R	ef. no).			YE	BAEE	L/WA/	LICI	Ser	0-22/0)6	
Sampling Date	Vill Padam 24/09/2022					Mode		- 65		tion		By	YBA	EEL 1	eam	1			764
Sampling Date	24/09/2022	YUU				Mode	of sar	nple o	ollec	tion		By	YBA	EEL 1	eam	1		461	
Sampling Protocol	IS: 3025 (Par	t-1) 19	87, R-2	2003		Samp	e Coc	le				22	0926-	GW-E	01	4 4	3		
Sampling Location	Srirampur Bo	rewell	- 63%			Samp	ing S	ource				Gr	ound	Wate	r				
Sample pkg. Condition	Sealed Pack i	n PP E	Bottle			Samp	e Qua	ntity				30	00 ml	in the					
Meteorological Cond. of Field	W.C Clear				. 1	RH%				art.	N	Te	mp	30 00			-c 5.		
Sample receipt Date	26/09/2022			THE RESERVE	on						-			7		100	3.3.5		

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	На	1.77	6.76	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen		10	5-15
3.	Conductivity	IS 3025 (P-14):2013	us/cm	1.90	548.0	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	158.0	200-600
5.	Total Hardness (as CaCOa)	IS 3025 (P-21):2009	mg/l	1,35	194.0	200-600
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	94.0	500-2000
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
8.	Chloride (as CI)	IS 3025 (P-32):2003	√ng/l	3.41	55.0	250-1000
9.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	12.22	0.6	1.0-1.5
10.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rdedition 2017	mg/l	11.33	1.01	45-No relaxation
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	56.0	75-200
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B : 2017	mg/l	1.90	13.12	30-100
13.	Sodium (as Na+)	APHA 3111 B 23rd edition 2017	mg/l	16.98	32.0	
14.	Potassium (as K+)	APHA 3111 B 23rd edition 2017	mg/l	9.21	1.0	

Limit is specified as	IS 10500; 2021
Abbreviation	MDL: Minimum detection limit, BDL: Below detection limit.
Env. Condition of Lab	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law
	This report cannot be reproduced, except when in full, without the written permission of the CEO.
	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount
A Marie Series	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By Tested By Angad Munda

Akash Khalkho (Lab Analyst)

3019/22
Issued by
Umesh Das
Authorized Signatory

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



Branch Office : - Jamshedpur Dhanbad

Hazaribag

Pakur





ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



An ISO 9001:2015 & ISO 45001:2018



Test Certificate

Certified by: -

Discipline Ch	nemical	Group	Water	Sample Descri	ption	Ground Wa	er
Report Release	Date	30th Septembe	er, 2022	Report ID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0920-114052- GW01
W. Order/ JSPC	B App. No.	3030005781	A CONTRACTOR OF THE PARTY OF TH	Work Order Da	te	18,12,2021	0020-114002 01101
Type of Industry	/(If any)	Thermal Powe	r Plant	Job code/ Ref.	no.	111111111111	VL/C/Sep-22/06
Report Issue to Sampling Date	G LABOUR		Power & Natural Res pur, PGCILS, Kandra	- 832402, Jhark		KOMENCO	
Sampling Protoc	AL ST	American	4) 4007 D 0000	Mode of sample	e collection	By YBAEEL	
			-1) 1987, R-2003	Sample Code		220926-GW-	E01
Sampling Locati	on	Srirampur Bor	ewell	Sampling Source	ce	Ground Wat	er
Sample pkg. Co	ndition	Sealed Pack in	PP Bottle	Sample Quantit	у .	3000 ml	and the second
Meteorological (Cond. of Field	W.C Clear		RH % - 66		Temp 30	c
Sample receipt [Date	26/09/2022	Analysis Started on	26/09/2022	Analysis com		30/09/2022

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002			Agree.	
2.	Taste	IS 3025 (P-07):2002	-		Agree.	Agreeable Agreeable
3.	Cyanide (as CN-)	IS 3025 (P-27)	mg/l	40	BDL (MDL 1.0)	0.05-No relaxation

Limit is specified as	IS 10500; 2021
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
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	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By

Angad Munda

Tested By

Akash Khalkho (Lab Analyst)

50,09,2022	30 9 14 2
.Verified by	Issued by
Shivani Kumari Singh	Umesh Das
Authorized Signatory	Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

Branch Office : -

ISO 45001:2018

Jamshedpur

Dhanbad



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



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





Test Certificate

ULR (Unique Lab Report) No.		T C 4 0	3 2 2 2	2 0 0 0	0 0	1	6 3 4
Discipline Chemical	Group	Water	Sample Descrip	ption	Residu	e & Cor	ntaminants in Water
Report Release Date	30th Septemb	per, 2022	Report ID		YBAE	EL-220	920-114052- GW0
W. Order/ JSPCB App. No.	3030005781		Work Order Da	te	18.12.2	2021	CHAP ¹
Type of Industry(If any)	Thermal Pow	er Plant	Job code/ Ref.	no.	YBAE	EL/WA	L/R/Sep-22/02
		k Power & Natural Res npur, PGCILS, Kandra		hand.			
- 100 A 100	Vill Padan		- 832402, Jharki			MAET T	Agr. Estar
	Vill Padan 24/09/2022	npur, PGCILS, Kandra	- 832402, Jharki Mode of sample		Ву ҮВ	AEEL 1	eam - GO
Sampling Protocol	Vill Padan 24/09/2022		- 832402, Jharki		By YB. 220926		
Sampling Protocol	Vill Padan 24/09/2022	npur, PGCILS, Kandra t-1) 1987, R-2003	- 832402, Jharki Mode of sample	e collection		-GW-E	01
Sampling Protocol Sampling Location	Vill Padan 24/09/2022 IS: 3025 (Par	npur, PGCILS, Kandra nt-1) 1987, R-2003 prewell	- 832402, Jharki Mode of sample Sample Code	e collection	220926	G-GW-E	01
Sampling Date Sampling Protocol Sampling Location Sample pkg. Condition Meteorological Cond. of Field	Vill Padan 24/09/2022 IS: 3025 (Par Srirampur Bo	npur, PGCILS, Kandra nt-1) 1987, R-2003 prewell	- 832402, Jharki Mode of sample Sample Code Sampling Source	e collection	Ground	S-GW-E d Wate nl	01 < A

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

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

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

Limit is specified as	IS 10500: 2021
Abbreviation	MOL : 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.
- 1 PTS 1 PTS 1	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.
the same of the sa	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Sample Drawn By

Joanu 9,2022	30/9/2-
Tested by	- Verified & Issued by
Shivani Kumari Singh	Uriesh Das
(Lab Analyst)	. Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

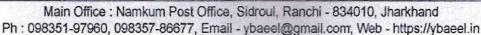
Branch Office : -

Jamshedpur

Dhanbad

Hazaribag









ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



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

An ISO 9001:2015 & ISO 45001:2018



Test Certificate

Discipline	Chemical	Group	Water	Sample Descrip	tion	Residue & C	ontaminants in Water
Report Relea	ase Date	30th Septemb	er, 2022	Report ID			0920-114052- GW01
W. Order/ JS	SPCB App. No.	3030005781		Work Order Dat	8	18.12.2021	0320-114032- 04401
Type of Indu	stry(if any)	Thermal Pow	er Plant	Job code/ Ref.	10.		A/L/R/Sep-22/02
Sampling Da	LARORAT		Power & Natural Res	- 832402, Jharkh		William W.	CHU NEE
The second second		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Mode of sample	collection	By YBAEEL	. Team
Sampling Pro	otocol	IS: 3025 (Part	t-1) 1987, R-2003	Sample Code		220926-GW	E01
Sampling Lo	cation	Srirampur Bo	rewell	Sampling Source	e	Ground Wa	er
Sample pkg.	Condition	Sealed Pack i	n PP Bottle	Sample Quantity		1000 ml	The same of
Meteorologic	al Cond. of Field	W.C Clear		RH % - 66	KAR TERM	Temp 30	oc .
Sample recei	Int Date	26/09/2022	Analysis Started on	26/09/2022	Analysis comp	the same of the sa	<u> </u>

Units	MU %	Results	Limits
mg/l		BDL (MDL 0.02)	0.03-0.2
		mg/l -	

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.
10 (A) (A) (A)	This report cannot be reproduced, except when in full, without the written permission of the CEO
	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount
A STATE OF THE STA	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample compiles with prescribed limits.

Sample Drawn By - Angad Munda

W.M.	Juan 19,2022	3019122
LILL PARTY	Tested by	Verified & Issued by
Shir	ani Kumari Singh	Umesh Das
day the state of	(Lab Analyst)	Authorized Signatory

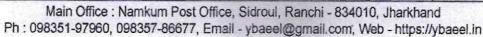
Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

Branch Office : -

Jamshedpur

Dhanbad









ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



NABL accredited testing laboratory vide certificate Number TC-4032

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







Test Certificate

ULR (Unique L	Lab Report) No.		T	C	4	0	3	2	2	2	0	T	0	0	0	0	11	T	6		1	6	F
Discipline	Biological .	Group		Wat	er			San	nple I	Desci	ripti	on		10	rou	nd W	ater	Sept.		-	• 1	Ť	1.
Report Relea	ise Date	29th September	r, 202	2			3		ort II					Y	BAE	EL.	2209	20-	114	105	2- 0	WO	1
W. Order/ JSPCB App. No. 3030005781				rk Ord		ate		H		8.12				£1)	Ž,			71955					
Type of Industry(if any) Thermal Power Plant			Job	code	/ Ref	. no						NAJL	/M	Sei	n-2	2/04		-					
		M/s Adhunik								THE STATE	7	. 6	100										
Sampling Da	te 1949	Vill Padam	pur, r	GCIL	.S, Ka		3161					lle.		[p	, VE	AEC	II T		AA		ole.		- 250
		24/09/2022	i de		.S, Ki	1	Mode	of sa	mple			lle.		-			LTO		1				33
Sampling Pro	otocol		R - 2	019	.5, Ki	I S	Mode Sampl	of sa	imple ide	coll		lle.		2	2092	6-G\	N-E)1	1	A)	alii		(3)
Sampling Pro Sampling Loc	otocol cation	24/09/2022 IS: 1622:1982	, R - 2	019	.5, K	8	Mode Sampl	of sa le Co ling S	imple ide Sourc	colle		lle.		2 G	2092 rour	6-G\)1	Al-		-		(3)
Sampling Date Sampling Pro Sampling Loo Sample pkg. Meteorologic	otocol cation	24/09/2022 IS : 1622:1982 Srirampur Bor	, R - 2	019	.S, K	S S	Mode Sampl	of sa le Co ling S le Qu	imple ide Sourc	colle		lle.		G 2	2092	6-G\ nd W	N-E0)1	1				

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

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

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

Limit is specified as	I S 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 ± 6% 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.
A COMPANY	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
THE STATE OF THE S	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 pertificate unless specified otherwise
The second second	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

Madhuri Sirka

Tested by
Madhuri Sinha
(Lab Analyst)

Mukeeth Kumus

Verified & Issued by
Mukestr Kumar

Authorized Signatory

Authorized Signatory
Microbiological Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - | Jamshedpur | Dhanbad | Hazaribag

ISO 9001:2015



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



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



NABL accredited testing laboratory vide certificate Number TC-4032

Jharkhand State Pollution Control Board (JSPCB)

ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique	Lab Report) No.	- 100°01 P	T C 4 0	3 2 2 2 0 0	0 0 0 1 6 2 9 F						
Discipline				Sample Description	Ground Water						
Report Rele	eport Release Date 30th September, 2022			Report ID	YBAEEL-220920-114052- GW02						
W. Order/ JSPCB App. No. 3030005781				Work Order Date	18.12.2021						
Type of Industry(If any) Thermal Pow			er Plant	Job code/ Ref. no.	YBAEEL/WA/L/C/Sep-22/06						
Report Issu	, ₁₈ 0		Power & Natural Res	ources Ltd. – 832402, Jharkhand.	WANTED THOUSEN						
Sampling Da	ate and a second	24/09/2022		Mode of sample collection	By YBAEEL Team						
Sampling Pr	rotocol	IS: 3025 (Par	t-1) 1987, R-2003	Sample Code	220926-GW-E02						
Sampling Location Padampur Bore		rewell	Sampling Source	Ground Water							
Sample pkg	. Condition	Sealed Pack i	n PP Bottle	Sample Quantity	3000 ml						
Meteorologi	cal Cond. of Field	W.C Clear		RH % - 66	Temp 30 °C						
Sample receipt Date 26/09/2022 Analysis Started on				The state of the s							

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pН	1.77	6.64	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen		10	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	464.0	
4.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	86.0	200-600
5.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	166.0	200-600
6.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	248.0	500-2000
7.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
8.	Chloride (as CI)	IS 3025 (P-32):2003	√mg/l	3.41	47.0	250-1000
9.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	12.22	0.4	1.0-1.5
10.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rdedition 2017	mg/l	11,33	9.99	45-No relaxation
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	44.0	75-200
12.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B: 2017	mg/l	1.90	13.60	30-100
13.	Sodium (as Na+)	APHA 3111 B 23rd edition 2017	mg/l	16.98	20.0	1 4 4 5
14.	Potassium (as K+)	APHA 3111 B 23rd edition 2017	mg/l	9.21	3.0	

	스타트 나는 사람들은 아들이 다른 사람들이 되었다. 이 사람들은 이 사람들이 이 사람들은 이 사람들이 아니는 이				
Limit is specified as	IS 10500: 2021				
Abbreviation	MDL: Minimum detection firmit, 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 no					
	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.				
-05	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	Akash Khalkho (Lab Analyst)				
I RESIDUE DA					

July 2022	30 912 2
. Verified by	Issued by
Shivani Kumari Singh	Umesh Das
Authorized Signatory * **********************************	Authorized Signatory

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

Control Board

Branch Office : -Jamshedpur Dhanbad



ISO 9001:2015



YUGANTAR BHARATI ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by: -

Jharkhand State Pollution Control Board (JSPCB)

An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline (Chemical	Group	Water	Sample Descri	ption	Ground Wat	er
Report Releas	e Date	30th Septemb	er, 2022	Report ID	anyo"	YBAEEL-220920-114052- G	
W. Order/ JSP	CB App. No.	3030005781	· ANAMA	Work Order Da	te	18,12,2021	11102 01102
Type of Industry(if any)		Thermal Pow	er Plant	Job code/ Ref.	no.		VL/C/Sep-22/06
Sampling Date	NO LABORA		Power & Natural Res	- 832402, Jhark	See and the	province(1)	
		+		Mode of sample collection		By YBAEEL	Team
		1 14 1 2076 / Dan		Sample Code		AAAAAA AIST	The state of the s
	The second second	10 . 3023 (Fall	t-1) 1987, R-2003	Sample Code		220926-GW-	The state of the s
	The second second	Padampur Bo		Sampling Sour	ce	Ground Wat	E02
Sampling Loca	tion		rewell	Sampling Sour		Ground Wat	E02
Sampling Proto Sampling Loca Sample pkg. Co Meteorological	tion	Padampur Bo	rewell			200	E02 er

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

SI	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	0.00		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

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 lested 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 flability of the laboratory is limited to the invoiced amount
	All disputes are subjected to the Ranchi Julisdiction
Remarks	Sample compiles with prescribed limits.

Sample Drawn By

Angad Munda

Tested By

Akash Khalkho (Lab Analyst)

	- W.
500m 19.2022	1000
30.01	
Verified by	Issued by
Shivani Kumari Singh	Umesh Das
Authorized Signatory	Authorized Signatory

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

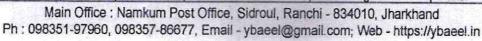
Branch Office : - Jamshedpur Dhanbad

NYTRONALKI

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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) ISO 9001:2015 & ISO 45001:2018



Test Certificate

ULR (Unique Lab Report) No.	J-14001	T C 4 0	3 2 2 2 2	101010	1010	14	10	2	FIF
Discipline Chemical	Group	Water	Sample Descrip	tion	Pocidu	08 Co	0	3	3 F
Report Release Date	30th Septemb	per, 2022	Report ID		Residue & Contaminants in Water				
W. Order/ JSPCB App. No.	3030005781		Work Order Dat		YBAEEL-220920-114052- GW02 18.12.2021 YBAEEL/WA/L/R/Sep-22/02				
Type of Industry(If any)	Thermal Pow	ver Plant	Job code/ Ref. no.						
Sampling Date	Vill Padan	k Power & Natural Res npur, PGCILS, Kandra	- 832402, Jharkh		l n vo	NO.	117	i i C	
Sampling Protocol		t-1) 1987, R-2003	Mode of sample	collection	By YBAEEL Team		KINE		
Sampling Location	Padampur Bo		Sample Code Sampling Source		220926-GW-E02 Ground Water				
Sample pkg. Condition	Sealed Pack i	50000 ON 10000 ON 100	Sample Quantity	1000 m					
Meteorological Cond. of Field	W.C Clear		RH % - 66	-71					chile
Sample receipt Date	26/09/2022	Analysis Started on	1111 /0 - 00		Temp.	30 VC			

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

31	Parameter	Test Method	Units	MU %	Results	Limits
	Arsenic (as As)	APHA 3114 B 23rd edition 2017	ma/l	10.34		
2.	Copper (as Cu)	APHA 3111 B 23rd edition 2017	mg/l	11.11	BDL (MDL 0.003)	0.01-No relaxation
1.	Iron (as Fe)	APHA 3111 B 23rd edition 2017	mg/l	2.34	BDL (MDL 0.01)	0.05-1.5
	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	10.64	0.13	1.0-No relaxation
	Cadmium (as Cd)	APHA 3111 B 23rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.01-No relaxation
	Mercury (as Hg)	APHA 3112 B 23rd edition 2017	mg/l	8.47	BDL (MDL 0.02)	0.003-No relaxation
	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	AND DESCRIPTION OF THE PARTY OF	12.53	BDL (MDL 0.003)	0.001-No relaxation
	Nickel (as Ni)	APHA 3111 B 23rd edition 2017	mg/l		BDL (MDL 0.02)	0.05-No relaxation
	Cobalt (Co)	APHA 3111 B 23rd edition 2017	mg/l v	13.72	0.17	0.02-No relaxation
		ATTIM STITLE 25- EQUIUM 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	i abraton is maintaining Tanacaton inni
Specific contractual notes	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
	his values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Labia Community
The second second	This report, at this or its part, Stidil from the first of any annual and any
	This report cannot be reproduced, except when in full, without the written nermission of the CSO
	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless appoint at the
S. NOT. 1	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

Joan 30,09,2022	3019132
Tested by	Verified & Issued by
Shivani Kumari Singh	Umesh Das
(Lab Analyst)	Authorized Signatory

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

REGARDAR BRANCATE

Branch Office : - Jamshedpur

nedpur Dhanbad

Hazaribag

Dokur







ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY





Test Certificate

Accredited by: -

An ISO 9001:2015 & ISO 45001:2018

Certified by:-

Discipline Chemical	Group V	Vater	Sample Descrip	otion	Residue & Co	ntaminants in Water
Report Release Date	30th September, 2022		Report ID			920-114052- GW02
W. Order/ JSPCB App. No.	3030005781		Work Order Dat	te	18.12.2021	
Type of Industry(If any)	Thermal Power Plant		Job code/ Ref.	no.	YBAFELWA	/L/R/Sep-22/02
Report Issue to Sampling Date	M/s Adhunik Power Vill Padampur, PO 24/09/2022		- 832402, Jharki	10	D. VDASSI	
Sampling Protocol		7 D 2002	Mode of sample	Conection	By YBAEEL	
Sampling Location			Sample Code		220926-GW-E02	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(4)	Sampling Source		Ground Water	
Sample pkg. Condition			Sample Quantity			
Sample pkg. Condition Meteorological Cond. of Field	Sealed Pack in PP Bo	ottie	RH % - 66	у .	1000 ml	- 10 W

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	-

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
The Land Street Figure 1	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
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
A STATE OF THE STA	The liability of the laboratory is limited to the invoiced amount.
The second of the second	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample compiles with prescribed limits.

Sample Drawn By

ISO 45001-2018

Juan 9.2022	30/3/2
Tested by	Verified & Issued by
Shivani Kumari Singh	Umesh Des
(Lab Analyst)	. Authorized Signatory

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory

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







ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by:

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

ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique L	ab Report) No.	AND THE	T	C	4	0	3 2	12	12	0	0	0	0	0	1	6	1 1	7	=			
Discipline	Biological .	Group		Wat	er		S	mple	Descr	iption	• 1	G	rour	d Wa	ter			-	-			
Report Relea	se Date	29th September	29th September, 2022						Report ID					YBAEEL-220920-114052- GW02								
W. Order/ JS	PCB App. No.	3030005781	JE Z			Work Order Date								18.12.2021								
Type of Indus	ype of Industry(if any) Thermal Power Plant Report Issue to					b cod				_	YBAEEL/WA/L/M/Sep-22/04											
Sampling Dat	e se la companya de l	Vill Padam 24/09/2022	pur, F	GUIL	.5, Ka							B	, YR	ΔEFI	Too	m in			- 30			
Sampling Pro						CO-CLASSIFICATION	The second second	Mode of sample collection						By YBAEEL Team								
Dailiuliilu Pit		IS: 1622:1982, R - 2019			Sample Code						220926-GW-E02											
		The second second				Sa	mple (ode				22	USZ	9-GAA	-EUZ		187					
		Padampur Boi			18		mple (e	4.5		_	- 002	d Wa								
Sampling Loc	ation	The second second	e Wel			Sa		Sour				Gi	- 002	d Wa					38			
Sampling Loc Sample pkg.	ation	Padampur Boi	e Wel			Sa Sa	mpling	Sour				Gr 25	oun 0 ml	d Wa	ter							

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

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

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

Limit is specified as	IS 10500, 2012
Abbreviation	MDL: Minimum detection limit. BDL: Below detection limit.
APP A	<1.8 / < 1.1 MPN/100 in I denotes that the presence probability of hacteria is absent in the tested cample
Env. Condition of Lab	Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 6% in all tection areas as not IS 106-1066 (C)
Specific contractual notes	I rull values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lable Democratic
	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 nermission 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

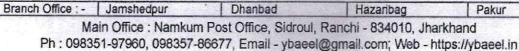
Angad Munda

Maolhuri Sinta	Muheehkumur 3919/2022
Tested by	- Verified & Issued by
Madhuri Sinha	Mukesh Kumar
(Lab Analyst)	. Authorized Signatory

Authorized Signatory Microbiological Section Yugantar Eharati Analytical &

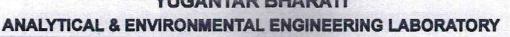
Environmental Engineering Laboratory





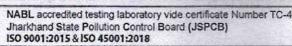






Accredited by: -NABL accredited testing laboratory vide certificate Number TC-4032

Certified by:-







Test Certificate

ULR (Unique Lab Report) No.		TC	4	0 3	12	2	2	0	0	0	0	0	1	6	12	11	IF		
Discipline Chemical .	Group	Atmosp	heric	Pollution	Sai	mple	Desci	riptio	n		Ami	pient	Noise		1-	1.4	11		
Report Release Date	30th Septembe	er, 2022				Report ID						YBAEEL-220920-114052- N01							
W. Order / JSPCB App. No.	3030005781		- 1		Work Order Date						18.12.2021								
Type of Industry(If any)	Thermal Powe	r Plant		Job code/ Ref. no.						YBAEEL/WA/L/A/Sep-22/28									
Report Issue to	M/s Adhunik Vill Padamp						arkh	and.		76.7				A P					
Sampling Period	22/09/2022 - 23	3/09/2022		Mode	of sai	mple	collec	ction			By	YBA	FFI '	Tear	n		-134		
Sampling Protocol	IS 9989:1981 (F	23/09/2022 Mode of sample collection By YBAEEL Team (RA 2020) & CPCB Method S.O.50 (E) dated 11/01/2010											130						
leteorological Cond. of Field W.C Clear		TOTAL PROPERTY AND ADDRESS OF THE PARTY OF T			% - 67						Temp 32°C								
motor ological colla. Of Field																			

SI	Locations	Parameters	Units	MU %	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	Limits
1,	Reservoir	Leq	dB (A)	1,32	54.9	53.2	
2.	Near Main Gate	Leq	dB (A)	1.32	55.5	51.1	Day - 75
3.	Sati Steel	Leq	dB (A)	1.32	52.2	41.2	Night - 70
4.	Occupational Health Centre	Leq	dB (A)	1.32	46.0	45.4	

• .	Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is		Area	Unit	Day Time	Night time
-143	declared as such by the competent authority.	A	Industrial Area	dB (A)	75.0	70.0
	Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority,	В	Commercial Area	dB (A)	65.0	55.0
	dB(A) Leg denotes the time weighted average of the level of sound in decibels on	Ç	Residential Area	dB (A)	55.0	45.0
	scale(A) which is relatable to human hearing.	D	Silence Zone	dB (A)	50.0	40.0

Limit is specified as	Noise pollution (Regulation & Control) Rules, 2000.
Abbreviation	MDL: Minimum detaction 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 Capital
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and the latest the same	This report cannot be reproduced, except when in full, without the written nemission of the CEO
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rate of the second	The liability of the laboratory is limited to the invoiced amount.
	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limit,

Sample Drawn By

- Angad Munda

Tested By

- Akash Khalkho (Lab Analyst)

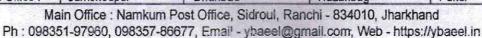
30-09-72	308 22
Verified by	- Issued by
Sanjeev Kumar Singh	Úmesh Das
Deputy Technical Manager	Authorized Signatory
	Authorized Signatory

Atmospharic Polication Yugantar Bharati Analytical & **Environmental Engineering Laboratory**

Branch Office : - Jamshedpur

Dhanbad









YUGAMTAP BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: -Certified by:-

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

ISO 9001:2015 & ISO 45001:2018





Test Certificate

Cer	tined by:- ISO 9	001:2015 & ISO 4	15001	:2018		A. T. C. C.		7-100				U.S.									TC-4		
Transpire in the second	ABURATURY		WA	50	est	Ce	ntif	lice	rte			1,8			į įš								
ULR (Unique	Lab Report) No.	ALL PARTY	T	C	4	0	3	2	2	2	0	T	1) [0	T	ıΤ	1	6	2	5	IF		
Discipline				tmosp	heric	Poll	ution	Sai	mple	Desc	riptic	n		Wo	rk Zo	ne l	Nois	e		10	1,		
Report Rele	Report Release Date 30th Septem			22			14.5	Re	port I	D				YBAEEL-220920-114052- N02									
W. Order / J	/. Order / JSPCB App. No. 3030005781							Work Order Date					18.12.2021										
Type of Indu	ustry(if any)	Thermal Powe	er Plant				Job code/ Ref. no.						A. A. S. S. S.		1/1 //	AlSe	0-22/	20					
Report Issu	e to	M/s Adhunik Vill Padam								arkh	and.			V-W			\$ PA	(A)	13				
Sampling Pe	eriod	23/09/2022 - 2	4/09/	2022		Ti	Mode	of sa	mple	colle	ction			By YBAEEL Team							-12.35		
Sampling Pr	rotocol	IS: 9989:1981	(RA	2020),	CPC								1 13		1 of tonece reali								
Meteorologi	cal Cond. of Field	W.C Clear		- 180			RH %		-					Temp 32°C									
Sample rece	eipt Date	26/09/2022	17	Analys	is St	arted			/09/2	022		1	nalv	sis co		-		30	/09/2	022			

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

SI	Locations	Parameters	Units	MU%	Day Time	Night Time	Limit
1.	Boiler Pump Area	Leq	dB (A)	1.003	77.2	71.5	RAME LAS
2.	Turbine Floor	Leq	dB (A)	1:003	80.2	77.6	
3.	Compressor House	Leq	dB (A)	1.003	82.1	80.3	85
4.	Cooling Tower	Leq	dB (A)	1.003	76.8	76.2	
5.	CHP Area	Leq	dB (A)	1.003	70.5	56.3	Section 1

End of Report***

Limit is specified as	Factory Act. 1948 (8 hrs.)
Abbreviation	MUL: Minimum detection limit, BDL: Below detection limit
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196.1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
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	The liability of the laboratory is limited to the invoiced amount.
1990年 新疆	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limit.

Sample Drawn By

- Angad Munda

Tested By

- Akash Khalkho (Lab Analyst)

27C wonal	30022
30-09-72	1 113
Verified by	Issued by
Sanjeev Kumar Singh	Umesh Das
Deputy Technical Manager	Authorized Signatory

Authorized Signatory Atmospharic Poliution Yugantar Sharatl Analytical & **Environmental Engineering Laboratory**

Branch Office : - Jamshedpur Dhanbad Hazanbag Pakur







ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



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

Certified by: -

ISO 9001:2015 & ISO 45001:2018





Test Certificate

ULR (Unique Lab Report) No.	AAL TO	T	C	4	0 3	2	2	2	0	0	0	0	0	1	6	T	2	4	F
Discipline Chemical .	Group	Atmos	pheri	c Poll	ution	Sar	nple l	Desc	riptio	n		Amb	ient /	Air Q	ualit	y (B	uffe	Zo	ne)
Report Release Date	30th Septemb	per, 20	22			Rej	oort II)				YBA	EEL-	22092	20-11	140	52- A	02	The state of
W. Order/ JSPCB App. No.	3030005781			- 65		Wo	rk Or	der D	ate			18.1	2.202	1	45	el.	N. Y		
Type of Industry(if any)	Thermal Pov	ver Pla	nt	40.000 0-2004		Job	code	el Re	f. no.			YBA	EEL	WAJL	IAIS	ep-	22/29		
Report Issue to	M/s Adhuni	k Pow	er & l	Natur	al Res	ources	Ltd.				N							TIN.	
Complement of the Complement o	Vill Padar	ALC:	100	LS, K			10					-1-			s A				
	23/09/2022 -	24/09/	2022		Mod	le of sa	mple	colle	ection			В	у ҮВ	AEEL	. Tea	ım		Y.	, the
		24/09/	2022		Mod	le of sa	mple	colle	ection			В	у ҮВл	AEEL	. Tea	ım			chill
Sampling Protocol	23/09/2022 - IS:5182 and	24/09/	2022 Air Ma	nual \	Mod	le of sa -1(NAA	mple	colle	ection))		B		AEEL		£ ()	ge		
Sampling Period Sampling Protocol Sampling Locations Meteorological Cond. of Field	23/09/2022 - IS:5182 and	24/09/ CPCB	2022 Air Ma	nual \	Mod	le of sa -1(NAA	mple	colle 6/20	ection))	oc .		Pa	Aug la	our V	/illa			

Parameters	Test Methods	Units	MU%	S	ampling Location	on	1.1
Turumeters	Test metriods	Units	MU 76	Site A	Site B	Site C	Limits
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2017	µg/m³	2.68	91.6	86.1	95.6	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m³	260	44.6	45.7	56.0	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	hð/w ₃	7.84	33.4	28.4	32.5	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m³	4.17	54.0	49.2	54.0	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	ha/w̄3	3.7	24.4	20.7	23.5	400
Ozone (O3)	IS:5182 (P-09) 2019	hg/m³	9.09	18.4	21.7	17.1	180
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m³	7.95	0.17	0.16	0.18	1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m³	14.71	BDL (MDL-4)	BDL (MDL-4)	BDL (MDL-4)	
Arsenic (As)	USEPA - 10 3.2	ng/m³	2.05	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	Tex

******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	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
notes	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO
	The samples collected shall be destroyed after 7 days 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

Branch Office : - Jamshedpur

Tested By

- Akash Khalkho (Lab Analyst)

30-09-22	30/3/2
Verified by	Issued by
Sanjeev Kurnar Singh	Umesh Das - Maria da
Deputy Technical Manager	Authorized Signatory

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



ANTALES

Dhanbad



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Certified by: -

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

Test Certificate

DI- 1.11 -		7				The second second	3 3 H1996	4 / 30 - 400 - 610 - 614 - 614
	Chemical	Group	Atmospheri	ic Pollution	Sample Do	escription	Ambient /	Air Quality (Buffer Zone
Report Release	e Date	30th Septe	mber, 2022		Report ID		YBAEEL-	220920-114052- A02
W. Order/ JSP(CB App. No.	30300057	81		Work Orde	er Date	18.12.202	
Type of Indust	ry(if any)	Thermal F	Power Plant		Job code/	Ref. no.	YBAEELA	NA/L/A/Sep-22/29
Sampling Perio	od .	Vill Pac	unik Power & dampur, PGCI = 24/09/2022	LS, Kandra			By YB	AEEL Team
Sampling Proto	ocol		nd CPCB Air Ma			Martin Committee	12,15	
Sampling Loca	tions		Pindrabera Villa			ur Village	C. Pa	dampur Village
Meteorological	Cond. of Field	W.C Cle	ar	RH % - 65		Temp 32 °C		W.D East-West
						A STATE OF THE RESIDENCE OF THE PARTY OF THE		

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

Parameters	Test Methods	Units	MU %	S			
, arainotoro	rest metrious	Olifo	INC 76	Site A	Site B	Site C	Limits
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m³		BDL (MDL 1.8)	1.4	1.6	
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	hð/w ₃	10.94	BDL (MDL 0.06)	BDL (MDL 0.06)	BDL (MDL 0.06)	, L
Benzo (a)pyrene (BaP) Particulate Phase Only	IS:5182 (P-12) 2004	ng/m³	-	BDL (MDL 0,2)	. BDL (MDL 0.2)	BDL (MDL 0.2)	

Limit is specified as Environmental (Protection) Rule - 1986 Abbreviation MDL: Minimum detection limit, BDL: Selow detection limit Env. Condition of Lab tity 65 ± 5% in all testing areas as per IS 196 1966 (C) Specific contractual All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility notes This report, in full or in part, shall not be used for advertising or as evidence in any court of law This report cannot be reproduced, except when in full, withou The samples collected shall be destroyed after 7 days from The liability of the laboratory is limited to the invoiced a All disputes are subjected to the Ranchi Jurisd

Sample Drawn By

- Angad Munda

Tested By

Remarks

- Akash Khalkho (Lab Analyst)

Samples comply with prescribed limits

30-10-2L	399/22
30-70-71 Verified by	
Sanjeev Kumar Singh	Issued by Umesh-Das
Deputy Technical Manager	. Authorized Signatory

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

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





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



YUGANTE THE RATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: -

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

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



OKONE O



Test Certificate

ULR (Unique Lab Report) No.	T C 4 0	3 2 2 2 0 0 0	0 0 1 6 2 0 F
Discipline Chemical .	Group Atmospheric Pollution	Sample Description	Ambient Air Quality (Core Zone)
Report Release Date	30th September, 2022	Report ID	YBAEEL-220920-114052- 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/Sep-22/28
Report Issue to	M/s Adhunik Power & Natural R		
· · · · · · · · · · · · · · · · · · ·	Vill Padampur, PGCILS, Kandi		
	22/09/2022 - 23/09/2022 N	fode of sample collection	By YBAEEL Team
		fode of sample collection	By YBAEEL Team
Sampling Protocol	22/09/2022 – 23/09/2022 N IS:5182 and CPCB Air Manual Volum	fode of sample collection	W 2014 T 1
Sampling Period Sampling Protocol Sampling Locations Meteorological Cond. of Field	22/09/2022 – 23/09/2022 N IS:5182 and CPCB Air Manual Volum	fode of sample collection me-1(NAAQM/36/2012-13) B. Switch Yard	

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

Parameters	Test Methods	línite	Units MU%	S	ampling Locati	11-14-	
	Test metrious	Clats		Site A	Site B	Site C	Limits
Particulate matter (PM10)	IS:5182 (P-23) 2006, RA 2017	µg/m³	2.68	78.5	86.7	85.0	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	hã/m³.	2.60	46.1	42.2	47.2	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m³	7.84	24.3	27.5	29.0	30
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m³	. 4.17	45.8	49,1	51.3	30
Ammonia (NH ₃)	IS;5182 (P-25) 2018	µg/m³	3.7	27.9	22.9	22.2	400
Ozone (O3)	IS:5182 (P-09) 2019	µg/m³	9.09	17.9	21.2	23.3	180
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	hã/m³	7.95	0.08	0.15	0.16	1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m³	14.71	BDL (MDL-4)	BDL (MDL-4)	BDL (MDL-4)	
Arsenic (As)	USEFA - 10 3.2	ng/m³	2.05	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	Tev

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

J Environmental (Protection) Rule = 1986.		
MDL: Minimum detection limit, BDL: Below detection limit.		
Laboratory is maintaining. Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196 1966 (C).		
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The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise		
The liability of the laboratory is limited to the invoiced amount		
All disputes are subjected to the Ranchi Jurisdiction		
Samples comply with prescribed limits.		

Sample Drawn By

- Angad Munda

Tested By

- Akash Khalkho (Lab Analyst)

30-69-52	30062
730-69- 32 Verified by	issued by
Sanjeev Kumar Singh	'Umesh Das
Deputy Technical Manager	Authorized Signatory

Authorized Signatory Atmospharic Pollution 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





ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by: -

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

Certified by:- An ISO 90

Test Certificate

Discipline Chemical	Group Atmospheric Pollutio	on Sample Description	Ambient Air Quality (Core Zo	
Report Release Date	30th September, 2022	Report ID	YBAEEL-220920-114052- A0	
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/Sep-22/28	
Sampling Period	M/s Adhunik Power & Natural I Vill Padampur, PGCILS, Kan 22/09/2022 – 23/09/2022		By YBAEEL Team	
	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)			
Sampling Protocol	IS:5182 and CPCB Air Manual Vol	ume-1(NAAQM/36/2012-13)		
	IS:5182 and CPCB Air Manual Vol A. Bachelor Hostel	ume-1(NAAQM/36/2012-13) B. Switch Yard	C. Sati Steel (CHP Area)	
Sampling Protocol Sampling Locations Meteorological Cond. of Field		B. Switch Yard		

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

Parameters	Test Methods Uni	Units	Units MU %	Sampling Location			40.			
		rest methods 0	lest Methods		rest metrious Offics mo 7	Oints	Utility MiO 76	Site A	Site B Site C	
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m ³	-	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	-			
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	µg/m³	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/m³	-	BDL (MDL 0.2)	BDL (MDL 0.2)	BDL (MDL 0.2)				

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

Limit is specified as	Environmental (Protection) Rule – 1986.		
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.		
nv. 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	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility		
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The second second	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

ISO 45001:2018

- Akash Khalkho (Lab Analyst)

30-09-2002	30/9/22
Verified by	Issued by
Sanjeev Kumar Singh	Umesh Das
Deputy Technical Manager	Authorized Signatory

Authorized Signatory
Atmospharic Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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



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



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

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

Office Order

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

Roles & Responsibility of Environment Cell

Following the broad scope of the Cell

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

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

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

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

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

Website : www.adhunikgroup.com



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

05.08.2016

Annexure I

Responsibilities of the members of the environment management cell

S. No.	Designation	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	
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		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		Responsible for development of Green belt & Land Scape on vacant land of Plant premises.	Environment Manager

Sr. Manager (HR)

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

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

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Website

: www.adhunikgroup.com



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

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

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

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

REGD. OFFICE

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

Website : www.adhunikpower.com



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

Ref No APNRL/JSPCB/ES/2021-22/01

Date: 20th Sep 2022

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

Sub- Submission of Environmental Statement (Form V) for Unit 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 2021-22.

This is for your kind information & record please.

Thanking You

Your's faithfull

Sr. 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: "LANSDOWNE TOWER", 2/1A, Sarat Bose Read, Kolkata - 700 020

Ph: +91 - 33 - 30517100 / 7200 / 7300 - 3x +91 - 33 - 22890285

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Website

: www.adhunikpower.com