



ADHUNIK POWER & NATURAL RESOURCES LIMITED

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

Ref: MOE&F, RNC/HYC/KKJ/29523/01

Dated: 29.05.2023

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 2022 to March 2023 -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 2022 to March 2023**.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

(Authorized Signatory)

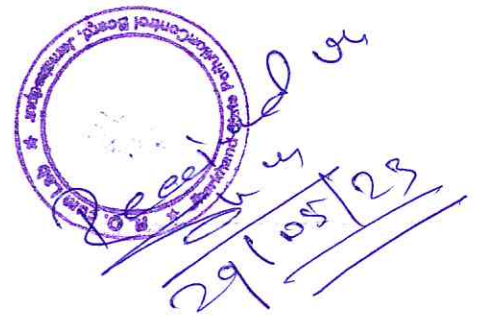
Encl: As Above

Copy to:

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



Recd
skm
31/05/23



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

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

REGD. OFFICE

REPORT

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



OCTOBER 2022 – MARCH 2023

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

Adhunik Power & Natural Resources Limited Vill: Padampur, Behind PGCIL Substation, Kandra Chouka Road, Saraikela-Kharsawan, Jharkhand		
Environmental Clearance Letter No: J-13011/8/2009-IA.II(T), dated 29th Aug 2009.		
Period Of Compliances: October 2022 to March 2023		
Sl No	EC Conditions	Status as on 31st March 2023
1	No additional land in excess of 119 ha shall be acquired for any activity/facility of this project.	Total Land acquired for Unit I is well within the land mentioned in Environment Clearance.
2	EC is subject to obtaining clearance under the Wildlife Protection Act, 1972 from the competent authority	WLMP Prepared and approval has been obtained from PCCF. Complied
3	EC is subject to final order of the Hon'ble Supreme court of India in the matter of Goa foundation Vs Union of India in Writ. Petition (Civil) no. 460 of 2004 as may be applicable to this project.	Not applicable.
4	Project proponent should contribute @ Rs. 20000/ha for project area as proportionate cost to the regional Wildlife Conservation plan and a copy of the plan should be submitted to the ministry.	As in Sl. No. 2 the Wild Life Management Plan (WLMP) prepared has already been approved by PCCF, Ranchi on May'10.2010. 1 st installment already submitted. Complied
5	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.45 % and 46 % respectively at any given time. In case of variation of coal quality at the time of issuance of LOA, a fresh reference shall be made to MoEF for suitable amendment to EC condition wherever necessary	The Sulphur content in used coal conforms the limits. As per the Environment (Protection) Amendment Rules, 2020 dated 21 May 2020, Use of coal by Thermal Power Plants, without stipulations as regards ash content or distance shall be permitted.
6	A single stack of 220 m height shall be provided with continuous online monitoring equipment's for Sox, Nox and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Hg emission from stack may also be monitored on periodic basis.	Twin flue chimney of 275m height has constructed for proper dispersion of gases. Online monitoring equipment has installed in chimney. Photographs with details of CEMS enclosed as Annexure I Hg concentration in flue gases is well within prescribed limits.
7	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emissions does not exceed 50 mg/Nm3	High efficient ESPs of 32 fields has been installed to ensure control Particulate matter emission in flue gas. Stack monitoring report for the month of March 2023 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-March 2023) are enclosed as Annexure IV. Monitoring of mercury and other heavy metals (As, Hg, Cr, Pd etc.) in the bottom ash and also in the effluents emanating from the ash pond is being done periodically. Bottom

	bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	ash analysis report & effluent analysis report of ash pond for the month of March 2023 enclosed as Annexure V & Annexure VI respectively.
10	Ash pond shall be lined with impervious lining. Adequate safety measures shall be implemented to protect the ash dyke from getting breached.	Complied
11	Closed cycling cooling system with natural cooling towers shall be provided. The effluents shall be treated as per the prescribed norms.	The project design involves closed cycle cooling systems with induce draft cooling towers. The effluent generated from process operation is being treated in a Guard pond to ensure conformance to CPCB standards and recycled in plant process. Treated effluent analysis report of ETP for the month of March 2023 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 24.02.2023. License No. P/HQ/JH/15/1065 (P257355) valid upto 31 st Dec 2026 for LDO storage installation (under Petroleum Class "C") for operations. Copy of Approval are enclosed as Annexure IX. Disaster management plan (DMP) has been prepared to handle the any eventuality in case of an accident taking place due to storage of oil. APNRL is using liquid fuel with sulfur content variation between 0.80 -1.5% which is provided by HPCL. Copy of Test report are enclosed as Annexure X.
19	Regular monitoring of ground water in and around to ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained and six monthly report shall be furnished to RO of ministry. The	Regular monitoring of ground water in and around ash pond area including heavy metals is being carried out. Ground water analysis report of upstream & downstream of ash pond compared with baseline data for the month of March 2023 enclosed as

	data so obtained should be compared with the base line data so as to ensure that the ground water quality is not adversely affected due to the project.	Annexure XI.
20	A green belt of adequate width and density shall be developed around the plant periphery covering 1/3 of the project area preferably with local species.	A thick green belt of adequate width is being developed. 68123 nos. (Area covered-30.9 Hac) of plantation has been completed in and outside along the periphery of the power plant to arrest any dust emissions and help in attenuation of noise. Total Survival rate of Plant are 85.6 %. Name of Plant Species- Neem, , Seesam, Mango, Jamun etc.
21	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Plant is under operation however first aid center comprising of competent medical staff (6 no's) and equipped with necessary medical facilities is made available onsite to provide emergency medical aid to both contract workers and company staff.
22	Noise level emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite PPE like ear plug/ear muff etc shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Adequate measures has implemented in consistent with the EMP to control turbine noise levels within stipulated limits. This include installing of sufficient engineering control in turbines as per design specifications, provision of ear plugs/ear muffs for workers exposed to high noise, rotation of workers and carrying out periodic audiometric testing of workers and records is being maintained. Noise level monitoring report for the month of March 2023 As Annexure XII.
23	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to RO of ministry. The data shall also be put on the website of the company.	Monitoring of Air quality is being conducted by APNRL on monthly basis. Review of air quality monitoring results revealed compliance to NAAQS. Ambient Air monitoring reports for the month of March 2023 is enclosed as Annexure XIII.
24	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care crèche etc, The housing may be in the form of temporary structure to be removed after the completion of the project.	Plant is in operational condition and local labors are coming from nearby villages.
25	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded EC and copies of clearance letter are available with the SPCB/committee and may also be seen at Website of the MoEF at	Complied.

	http://envfor.nic.in .	
26	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat Zila Praised/Municipal Corporation, urban local body and the local NGO, is any from whom suggestion/representation, if any were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied.
27	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A Environmental Management Cell is being operational onsite to ensure effective implementation of specific EMPs. Organization chart of Environmental Management Cell enclosed as Annexure XIV.
28	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the RO of MoEF the respective zonal office of CPCB and the SPCB the criteria pollutant level namely SPM, RSPM, SO ₂ , NO _x (ambient level as stack emission) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The updated compliance status of the stipulated EC conditions along with monitored data has been displayed at the company website. The monitoring data (SPM, RSPM, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. Status of compliance of the stipulated EC conditions has been uploaded on company website for the period of April 2022 to September 2022.
29	The project proponent shall also submit six monthly report on the status of compliance of the stipulated condition including result of monitored data (both in hard copy as well by email) to the respective RO of MoEF, the respective zonal office of CPCB and the SPCB.	Last six monthly reports (April 2022 to Sep 2022) for the project along with environmental monitoring data submitted to MoEF RO at Ranchi vide letter No MOE&F,RNC/HYC/KKJ/261122/01 dated 26 th Nov 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, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. However Half yearly progress report is being sent to RO office, Ranchi on regular basis as per the requirement & uploaded on company website.

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

CODEL

REF: DCEM2100/DS/02
DATA SHEET DCEM2100 DUST MONITOR

GENERAL		
1	Make	CodeL UK
2	Model	DCEM2100 Dust Monitor
3	Type	In-Situ Non contact cross duct type
4	Qty of units	2 No.
5	Ttg No.	HNE10CC003
FEATURES		
6	Range	0-100% Opacity, 0.999mg/m ³ - 0.999mg/Nm ³ (Fully site selectable)
7	Min. detectable conc.	1 mg/m ³
8	Measurement Units	Fully selectable units - mg/m ³ (measured), mg/Nm ³ (Normalized) and opacity(%)
9	Measurement averaging	Fully selectable in range 10sec to 30 days
10	Response time	90% in 5 seconds
11	Auto/manual calibration	In built automatic zero and span calibration
12	Accuracy	±0.2% Opacity of measurement
13	Drift	Less than 1% per month
14	Resolution	±0.1% opacity
15	Linearity	1/ 0.1% of full scale
16	Repeatability	±0.1% opacity
17	Power supply	88 - 264 VAC, 50-60Hz, 125 VA
18	Remote/Local control unit	Isolated 2x 4-20 mA, 500 ohms output fully configurable. 3 x Volt free SPNO contact rated at 50 VDC 1 Amp. 2 Line X 32 character alpha-numeric LCD displays with 4 key keypad. Provided in the instrument as a warning signal of misalignment
19	Automatic misalignment detection	Automatic window contamination check
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 aluminium enclosures to IP 66
DESIGN CONDITIONS		
23	Source	Modulated high intensity LED
24	Detector	Silicon photodiode
25	Ambient air temp.	-20deg C to 60 deg C
26	Gas Temperature	Up to 850 deg C
CONNECTIONS & DIMENSIONS		
27	Analyzer mounting details	Analyzer can be mounted in Chimney at Elevation of 91.6 Mtrs. Please refer drawing for analyzer mounting flange details.
28	Pull length	Suitable for 0.5 to 12m duct/stack inner diameter
ACCESSORIES		
29	Fail safe shutters	Built in
30	Air Purges	Air purges for continuous air supply to instrument provided
31	Interconnecting cables and mounting hardware	Included in supply
32	Temp. transmitter	24 VDC Supply Make: Precision Converter Model: PC1MXR Range: 0 to 300 Deg C

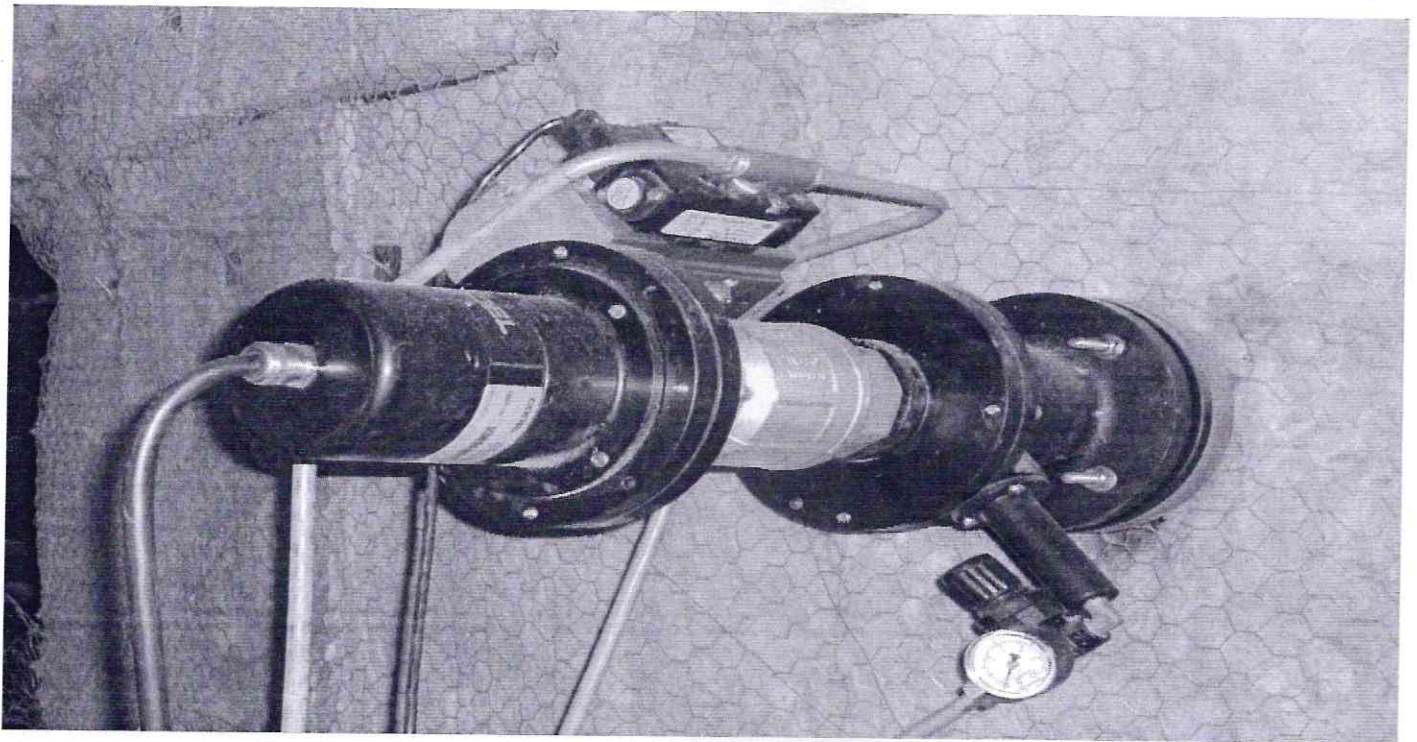
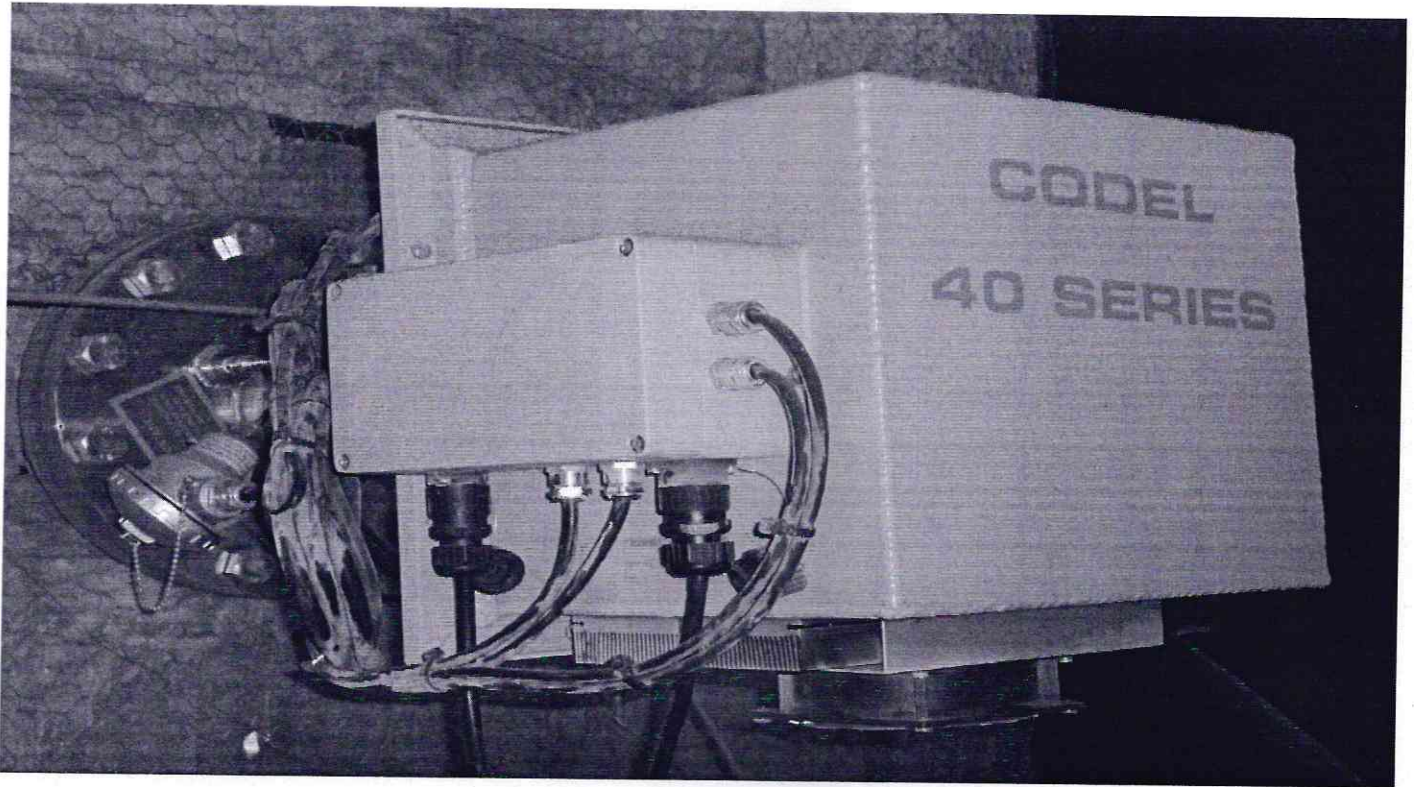
Ref: GC40A0/DS/02

DATA SHEET CO, SO₂, NO_x GAS ANALYSER

GENERAL	
1. Make	CODEL International Ltd. UK
2. Model/Article No	GC40A000 Series Article no GC40A0
3. Type	Infrared Absorption Analyser-In-Situ type
4. QTY	2 No.
5. Tag No.	SO _x HNE10CQ004 NO _x HNE10CQ001 CO HNE10CQ002
FEATURES	
6. Range	CO : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ SO ₂ : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ , NO _x : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ , CO ₂ : 0 to 25% H ₂ O : 0 to 25% Above ranges are site selectable up to 3000 ppm
7. Min. detectable conc.	1 ppm, 1mg/m ³ , 1mg/Nm ³ for CO, SO ₂ , NO _x & 0.5% for CO ₂ , H ₂ O.
8. Measurement Units	Fully selectable units-ppm or % by volume, mg/m ³ (measured) and mg/Nm ³ (Normalised to temperature, pressure, H ₂ O & CO ₂)
9. Measurement averaging	Fully selectable in range 10Sec to 1 hour
10. Response time (T90)	Detector less than 10 seconds, Calibration less than 200 seconds.
11. Auto & manual calibration	In built and selectable
12. Function	Continuous function
13. Accuracy	± 2% of measured value for CO, SO ₂ , NO _x & 0.5% for CO ₂ & H ₂ O
14. Zero/span drift(24hrs)	Over all drift less than ± 2% per month
15. Repeatability	Less than 2% of span
16. Sensitivity	1 ppm for CO, SO ₂ , NO _x , 0.5% for CO ₂ , H ₂ O
17. Linearity	Less than 2%
18. LCD Display	LCD with back light
19. Power supply	240VAC, 50-60Hz, ± 10% 400VA
20. Outputs	Analog : 5 x 4-20 mA isolated, max. 500 Ohms, full configurable from Keypad for CO, SO ₂ , NO _x in ppm & CO ₂ , H ₂ O in % to DCS fully site configurable. Logic: 5 x Volt free contacts, SPST rated at 50 volt 1A & 1x data invalid output (System fault)
21. Serial Communications	RS232/RS485 Modbus O/P
22. Construction material and Enclosures	Electronic Housings (DDU) : Corrosion resistant, epoxy coated Aluminium housing sealed to IP 66 Probe: SS316L
DESIGN CONDITIONS	
23. Infrared source	Heater cartridge assembly
24. Infrared detector	Lead selenide detector
25. Ambient air temp.	Transceiver unit 0 to 70 °C, Electronic unit (PSU & DDU) 0 to 60 °C
26. Flue gas temp.	Up to 350 deg.C

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

Continuous emission monitoring system





Institute for Environmental Management

Accredited by Jharkhand State Pollution Control Board, JSPCB
National Accreditation Board for Testing Laboratory (NABL) vide TC-11515
Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	4	2
Discipline: Chemical						Group: Atmospheric Pollution						Sub-Group: Stack Emission						
Report Issue Date: 31-03-2023										Test Report No.: RN-230320001S1								
Sample ID: 230330AP05001										Sample Description: Stack Emission								
Challan No./P.O. No.: 3030006457										Challan Date/P.O. Date.: 06-12-2022								
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																		
Type of Industry: Power Plant										Customer Representative: Kamlesh Jha								
Sample Drawn by: IEM Team										Sampling Date: 28-03-2023								
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series																		
Field Meteorological Information						A. Temp.(°C): 28			R.H. (%): 61			W.C.: Clear			W.D.: NE - SW			
Sample Receiving Date: 29-03-2023						Testing Started: 29-03-2023						Testing Ended: 31-03-2023						

General Physical Information

Stack Identification	Single	Stack Height from Ground Level (m)	275
Emission Due to	Boiler	Port Hole Height from Ground Level (m)	90
Plat Form	Permanent	Inner Dimension of Stack (m)	4.2
Stack Description	Stack Unit - 1	Type of Fuel Used	Coal
Shape of Stack	Circular	Quantity of Fuel	----
Construction Material	Metal	Production Capacity	----
Sampling Port	Available	Pollution Control Device (if any)	ESP

Test Result

Sl. No.	Parameters	Test Methods	Unit	Result	Limits
1.	Flue Gas Temperature	IS 11255 (Part-3)	°K	389	---
2.	Flue Gas Velocity	IS 11255 (Part-3)	m/s	21.8	---
3.	Flue Gas Volumetric Flow Rate	IS 11255 (Part-3)	Nm ³ /hr.	822601.9	---
4.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm ³	42.36	50
5.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	mg/Nm ³	1157.6	600
6.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	mg/Nm ³	526.96	450
7.	Carbon Monoxide (CO)	IS 13270:1992	%	BDL(MDL-0.2)	---

Dust	Kg/hr	35.85
Sulphur Dioxide	Kg/hr	952.24
Oxide of Nitrogen	Kg/hr	433.48

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	---
Remark	---

Tested By: Akanksha Sourabh

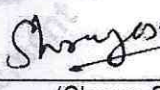
Sample Drawn By: Rahul Kr. Singh & team

Specific Contractual Notes:-

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2. This report shall not be reproduced except in full, without written approval of the MD.
3. This report is intended for only guidance and not for legal purpose or for advertisement.
4. Any complaint about this report should be communicated in writing within 7 days of its issue.
5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.
6. In case of feedback/ complaints, please send an email at gm.iemeco@gmail.com

On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Quality Checked by _____ Authorized Signatory


(Shreya Sore)
Dy. Quality Manager


Dr. S. C. Jain
Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



Institute for Environmental Management



Accredited by Jharkhand State Pollution Control Board, JSPCB
Certified by ISO 9001:2015 (Quality Management System)
ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 31-03-2023			Test Report No.: RN-230320001S1		
Sample ID: 230330AP05001			Sample Description: Stack Emission		
Challan No./P.O. No.: 3030006457			Challan Date/P.O. Date.: 06-12-2022		
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402					
Type of Industry: Power Plant			Customer Representative: Kamlesh Jha		
Sample Drawn by: IEM Team			Sampling Date: 28-03-2023		
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series					
Field Meteorological Information		A. Temp.(°C): 28	R.H. (%): 61	W.C.: Clear	W.D.: NE - SW
Sample Receiving Date: 29-03-2023		Testing Started: 29-03-2023		Testing Ended: 31-03-2023	

General Physical Information

Stack Identification	Single	Stack Height from Ground Level (m)	275
Emission Due to	Boiler	Port Hole Height from Ground Level (m)	90
Plat Form	Permanent	Inner Dimension of Stack (m)	4.2
Stack Description	Stack Unit - 1	Type of Fuel Used	Coal
Shape of Stack	Circular	Quantity of Fuel	----
Construction Material	Metal	Production Capacity	----
Sampling Port	Available	Pollution Control Device (if any)	ESP

Test Result

Sl. No.	Parameters	Test Methods	Unit	Result	Limits
1.	Flue Gas Temperature	IS 11255 (Part-3)	°K	389	---
2.	Flue Gas Velocity	IS 11255 (Part-3)	m/s	21.8	---
3.	Flue Gas Volumetric Flow Rate	IS 11255 (Part-3)	Nm ³ /hr.	822601.9	---
4.	Mercury (Hg)	(LATS/80/2013-2014)	mg/Nm ³	BDL(MDL-0.03)	0.03

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	---
Remark	---

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr. Singh & team

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Quality Checked by Authorized Signatory

Shreya Soni
(Shreya Soni)
Dy. Quality Manager
Ranchi

S. C. Jain
Director



Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

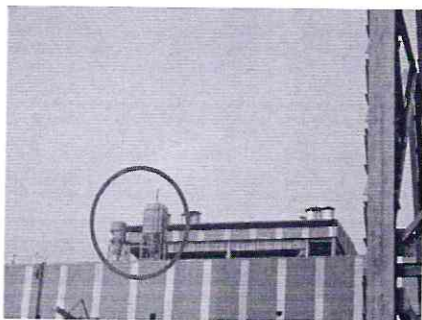
Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India

Ph - 8407804254, 8407804251, Email - iem2012@rediffmail.com

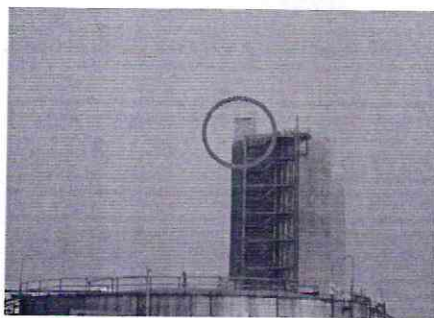


ISO 45001:2018

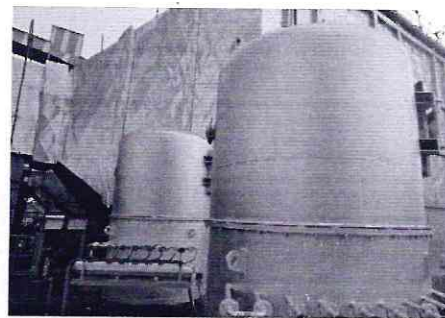
Bag Filter installed at Coal mill building



Bag Filter installed at Ash silo



Bag filter at buffer hopper



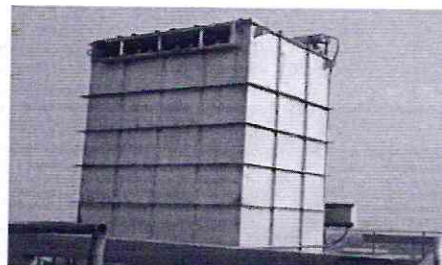
Dust suppression through Tanker



Fixed type DS system for coal Conveyor



DE system at Coal Crusher House



Closed type coal conveying system



Fixed type dust suppression system



Fixed type DS system at Coal Yard



Adhunik Power & Natural Resource Limited

FLY ASH GENERATION & UTILIZATION REPORT (2022-23)

Sl. No.	Ash Generation and Utilization						Mode of Ash Utilization			
	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	PPC	RMC	Legacy Ash In Reclamation of Low Lying Area /Brick Plant
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		(12)
1	APRIL	195270	41.97	81957.9	66569.94	81.2%	6493.49	56528.1	3548.4	
2	MAY	253516	46.57	118060.0	82846.76	70.2%	4058.37	75643.7	3144.7	
3	JUNE	223998.1	43.06	96455.6	81987.25	85.0%	3643.77	73484.9	4858.6	
4	JULY	177268	44.66	79159.8	67285.81	85.0%	1960.79	61244.8	4080.2	
5	AUG	236245.5	39.44	93167.6	77746.45	83.4%	1802.39	72883.3	3060.7	
6	SEP	228920.8	46.32	106041.3	89956.42	84.8%	3193.78	82747.03	4015.6	
7	OCT	176628	43.66	77113.4	65546.39	85.0%	2733.98	57935.3	4877.2	
8	NOV	92391	43.38	40076.0	34064.60	85.0%	1209.97	28136.6	4718.1	25811.7
9	DEC	203746	43.75	89130.1	75760.62	85.0%	996.61	70382.4	4381.7	80405.7
10	JAN	217296	43.87	95320.4	81022.32	85.0%	4596.26	72261.9	4164.1	
11	FEB	216946	41.06	89073.9	75712.85	85.0%	5361.52	62518.3	7833.0	
12	MAR	161397	40.33	65083.8	55321.19	85.0%	4535.30	44664.4	6121.5	



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National Accreditation Board for Testing Laboratory (NABL) vide TC-11515
Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	4	8		
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water									
Report Issue Date: 31-03-2023										Test Report No.: RN-230320001WW03										
Sample ID: 230330PE03001										Sample Description: Waste Water (Ash Pond)										
Challan No./P.O. No.: 3030006457										Challan Date/P.O. Date.: 06-12-2022										
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																				
Type of Industry: Power Plant										Customer Representative: Kamlesh Jha										
Sample Drawn by: IEM Team										Sampling Date: 28-03-2023										
Protocol: CPCB Guideline & IS Method 3025 Part-01																				
Sampling Location: Ash Pond Outlet																				
Field Meteorological Information										A. Temp.(°C): 28				R.H. (%): 61		W.C.: Clear		W.D.: NE - SW		
Sample Receiving date: 29-03-2023						Testing Started: 29-03-2023						Testing Ended: 31-03-2023								

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Limits	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	7.23
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	42.0
3.	Chromium	mg/l	APHA 3111 B.2017	--	BDL (MDL - 0.04)
4.	Lead	mg/l	APHA 3111 B.2017	--	BDL (MDL - 0.07)
5.	Mercury	mg/l	APHA 3112 C.2017	--	BDL (MDL - 0.008)
6.	Arsenic	mg/l	APHA 3114 C.2017	0.2	BDL (MDL - 0.012)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Punya Harsit Dadel

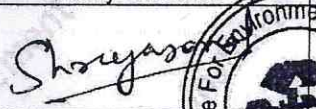
Sample Drawn By: Rahul Kumar Singh & Team

Specific Contractual Notes: -

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Quality Checked by: _____ Authorized Signatory


(Shreya Saha)
Dy. Quality Manager


Dr. S. C. Jain
Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



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Certified by ISO 9001:2015 (Quality Management System)
ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 31-03-2023	Test Report No.: RN-230320001WW03	
Sample ID: 230330PE03001	Sample Description: Waste Water (Ash Pond)	
Challan No./P.O. No.: 3030006457	Challan Date/P.O. Date.: 06-12-2022	
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402		
Type of Industry: Power Plant	Customer Representative: Kamlesh Jha	
Sample Drawn by: IEM Team	Sampling Date: 28-03-2023	
Protocol: CPCB Guideline & IS Method 3025 Part-01		
Sampling Location: Ash Pond Outlet		
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 61
	W.C.: Clear	W.D.: NE - SW
Sample Receiving date: 29-03-2023	Testing Started: 29-03-2023	Testing Ended: 31-03-2023

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Limits	Results
1.	Oil & Grease	mg/l	IS 3025 (Part-39)	20	BDL (MDL - 4.0)
2.	Temperature	mg/l	IS 3025 (Part-29)	--	28

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Punya Harsit Dadel

Sample Drawn By: Rahul Kumar Singh & Team

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Quality Checked by _____ Authorized Signatory


(Shreya Sonar)

Dy. Quality Manager * Ranchi * Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
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Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	4	7		
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water									
Report Issue Date: 31-03-2023										Test Report No.: RN-230320001WW02										
Sample ID: 230330PE02001										Sample Description: Waste Water (ETP)										
Challan No./P.O. No.: 3030006457										Challan Date/P.O. Date.: 06-12-2022										
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																				
Type of Industry: Power Plant										Customer Representative: Kamlesh Jha										
Sample Drawn by: IEM Team										Sampling Date: 28-03-2023										
Protocol: CPCB Guideline & IS Method 3025 Part-01																				
Sampling Location: ETP Outlet																				
Field Meteorological Information										A. Temp.(°C): 28			R.H. (%): 61			W.C.: Clear			W.D.: NE - SW	
Sample Receiving date: 29-03-2023										Testing Started: 29-03-2023					Testing Ended: 31-03-2023					

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Limits	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	7.69
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	26.0
3.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	12.0
4.	Phosphate (as PO ₄)	mg/l	IS: 3025(Part-31)	--	0.58
5.	Copper	mg/l	APHA 3111 B.2017	--	BDL (MDL - 0.2)
6.	Chromium	mg/l	APHA 3111 B.2017	--	BDL (MDL - 0.04)
7.	Zinc	mg/l	APHA 3111 B.2017	--	BDL (MDL - 0.04)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Punya Harsit Dadel

Sample Drawn By: Rahul Kumar Singh & Team

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Quality Checked by Authorized Signatory

Shreya Sonar
(Shreya Sonar)
Dy. Quality Manager
S. C. Jain
Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



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Certified by ISO 9001:2015 (Quality Management System)
ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 31-03-2023	Test Report No.: RN-230320001WW02	
Sample ID: 230330PE02001	Sample Description: Waste Water (ETP)	
Challan No./P.O. No.: 3030006457	Challan Date/P.O. Date.: 06-12-2022	
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402		
Type of Industry: Power Plant	Customer Representative: Kamlesh Jha	
Sample Drawn by: IEM Team	Sampling Date: 28-03-2023	
Protocol: CPCB Guideline & IS Method 3025 Part-01		
Sampling Location: ETP Outlet		
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 61
	W.C.: Clear	W.D.: NE - SW
Sample Receiving date: 29-03-2023	Testing Started: 29-03-2023	Testing Ended: 31-03-2023

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Limits	Results
1.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL (MDL - 4.0)
2.	Iron	mg/l	APHA 3111 B.2017	3.0	0.96
3.	Temperature	mg/l	IS 3025 (Part-29)	--	28

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Punya Harsit Dadel

Sample Drawn By: Rahul Kumar Singh & Team

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Quality Checked by

Shreya Sonar
(Shreya Sonar)

Dy. Quality Manager

Director



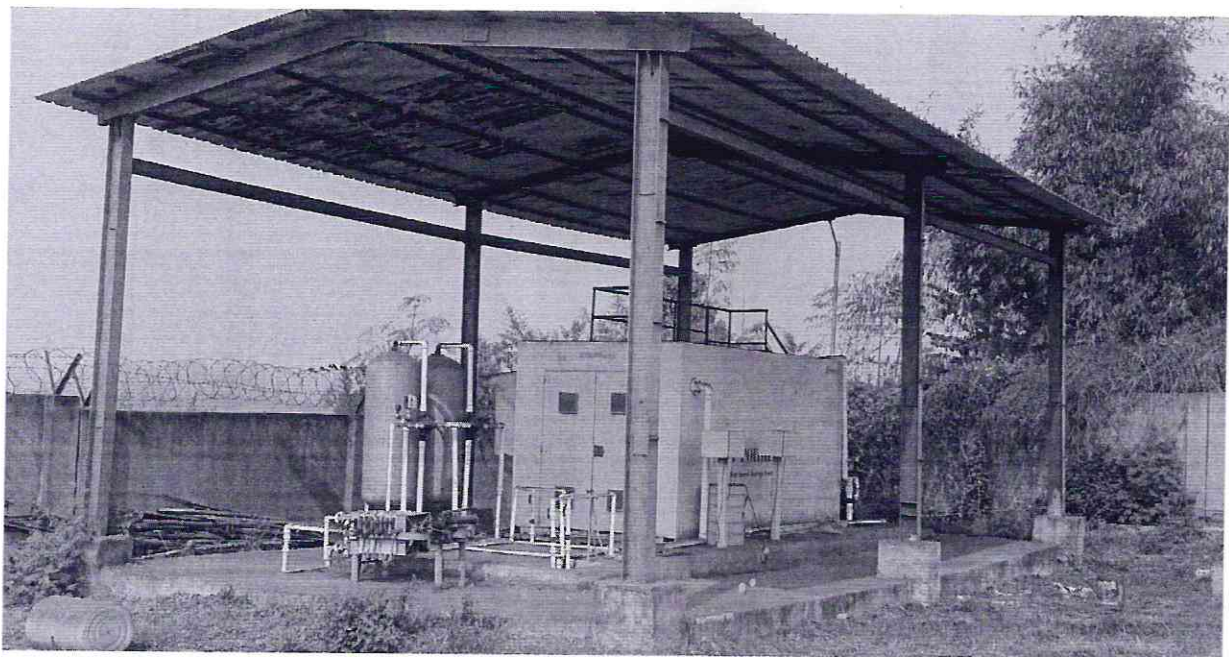
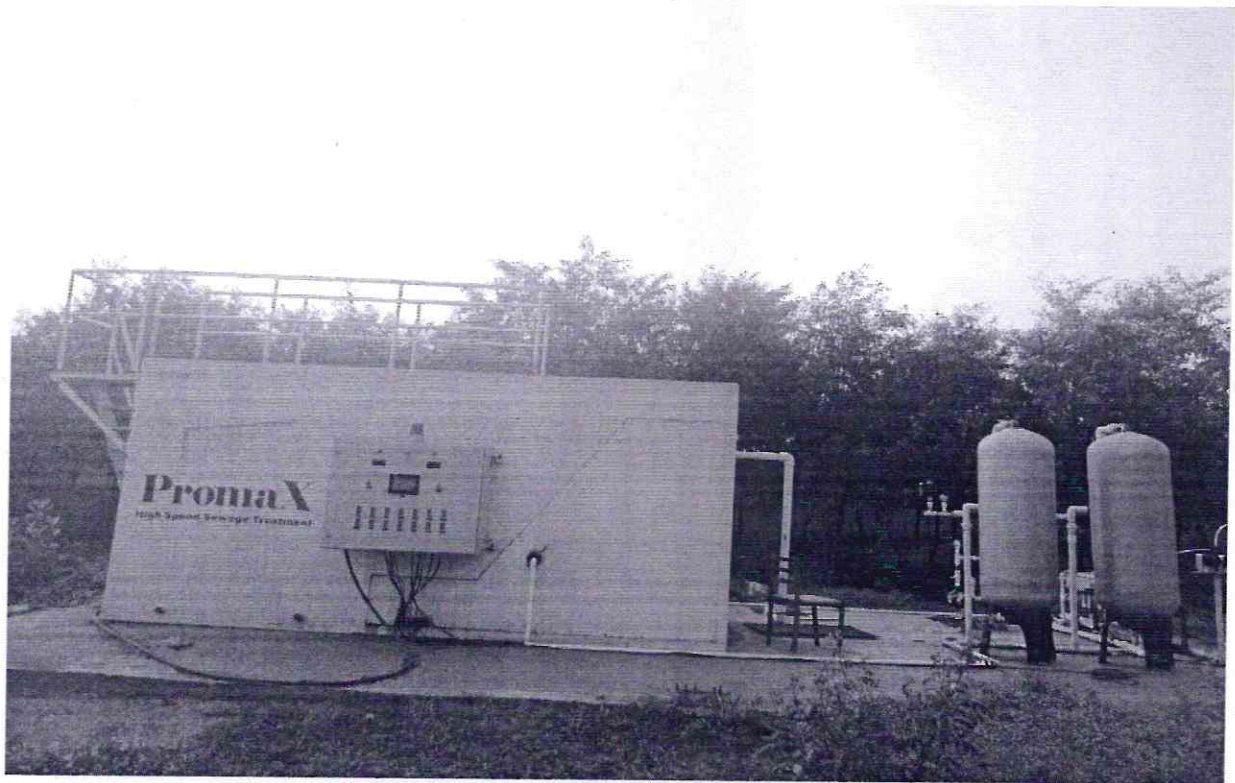
Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India

Ph - 8407804254, 8407804251, Email - iem2012@rediffmail.com



Sewage Treatment Plant





भारत सरकार

Government of India

वाणिज्य और उद्योग विभाग

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

Petroleum & Explosives Safety Organisation (PESO)

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

रंचि - 834001

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

E-mail : dycceranchi@explosives.gov.in

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

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

दिनांक /Dated : 24/02/2023

सेवा में /To,

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

24 FEB 2023

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

महोदय /Sir
(s),

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

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

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

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

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

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

कृपया मावली दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

(आशेंद्रा सिंह)

(Ashendra Singh)

उप मुख्य विस्फोटक नियंत्रक

Dy. Chief Controller of Explosives
रंचि/Ranchi

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

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

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

पेज सं. 2

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

नवीनीकरण के पंदांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में यह अनुमति जिस में बिना किसी शुल्क के दस वर्ष तक नवीकरण की जा सकती है।
 This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुमति प्राप्तिकारी के हस्ताक्षर और स्थान Signature and office stamp of the licencing authority.
	31/12/2013	Sd/- PESO ADMIN
23/09/2013	31/12/2018	Sd/- R.P.Singh Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Ranchi
18/02/2019	31/12/2022	Sd/- K. Thiagarajan Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Ranchi
24/02/2023	31/12/2026	Ashendra Singh Dy. Chief Controller of Explosives Ranchi

यदि अनुमति धारक इसमें उपाबद्ध विवरण और शर्तों के अनुसार नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुमति मंजूर की गई है उनसे किसी का उल्लंघन होने की दशा में यह अनुमति रद्द की जा सकती है और अनुमतिधारी प्रत्यक्ष अपराध के लिए सजाए गए 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 पदावधि अपराध के लिए सजाए गए कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

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

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भारत सरकार
भारत सरकार

Government of India

व्यवसाय और उद्योग विभाग

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

Petroleum & Explosives Safety Organisation (PESO)

श्री मोहन, तीसरा मंजरा, सीता कंपाउंड, 5 मैन रोड, सुशीला ऑटोमोबाइल के पीछे

पिन- 834001

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

E-mail : dycceranchi@explosives.gov.in

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

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

दिनांक /Dated : 24/02/2023

सेवा में /To,

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

24 FEB 2023

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

महोदय /Sir
(s),

कृपया आदर्श रूप संख्या OIN1307334 दिनांक 23/02/2023 का अवगत करें।

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

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

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

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

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

कृपया सन्वती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((आशेंद्रा सिंह))
(Ashendra Singh)

उप मुख्य विस्फोटक नियंत्रक
Dy. Chief Controller of Explosives
रांची/Ranchi

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

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

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government of India Enterprise)

QUALITY CONTROL LABORATORY

Visakh New Terminal

CONVENT JN.-SHEELANAGAR ROAD, BEHIND AIRPORT,

VISAKHAPATNAM- 530014

TEST REPORT

Product : HP INDUSTRIAL DIESEL OIL

Customer / Supplier : NBOT-BONDED TANKS-PSD
Branch Plant
Source of Sample : TK105
Tank No : TK105
Qty of Sample/ : 1ltr uml / tk70/868.3 b.no.36/2019

Density/Type of Sample

Catg / Evnt / Actvty : Aft Receipt thru Dedicated P/L

Receipt/Despatch Mode

Sample Drawn by : RAMAKRISHNA

Test Report No. : BFT/10835

Date of Sample Drawn : 20/07/19

Date of Sample Receipt : 21/07/19

Date of Sample Testing : 22/07/19

Date of Report : 22/07/19

Date of Printing : 22/07/19

QDE Sample Number : 865213

Batch No :

Test Line Number	Characteristics	Units	Test Method	Specifications		Result Value
				Min	Max	
5	DENSITY @ 15°C	Kg/m ³	IS 1448 (P:16)	-	-	867.8
6	KINEMATIC VISCOSITY @ 40°C	cSt	IS 1448 P:25	2,500	15,000	4,860
7	FLASH POINT - PMCC	°C	IS 1448 P:21	56	-	79
8	WATER CONTENT	% Vol	IS 1448 P:40	-	.250	.100
9	TOTAL SULPHUR	% Mass	ASTM D 4294	-	1.50	.47
10	FOUR POINT SUMMER	°C	IS 1448 P:10	-	21	3

Remarks:

Sample S.No.BFT/271 meets specification as per IS-15770.2008(Reaffirmed 2014) in the above parameters

Appearance : Light Brown

- Notes:
- 1) The sample is drawn by client and results relate to sample tested
 - 2) The test report shall not be reproduced except in full without prior written approval of the Lab Incharge
 - 3) This test report shall not be used in any advertising media or as evidence in the Court of Law without prior written consent of Laboratory
 - 4) Test results reported are valid at the time of testing
 - 5) This is a system generated test report and hence does not require signature

Tested By : 35323320

VELAMURI DATTATREYA

Reviewed and Approved By : 35323320

VELAMURI DATTATREYA

*** END OF TEST REPORT ***

Page No. 1 of 1



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National Accreditation Board for Testing Laboratory (NABL) vide TC-11515
Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	3	8	
Discipline:	Chemical					Group: Water					Sub-Group: Ground Water							
Report Issue Date:	31-03-2023										Test Report No.: RN-230320001GW1							
Sample ID:	230330WA02001										Sample Description: GW (Bore well)							
Challan No./P.O. No.:	3030006457										Challan Date/P.O. Date.: 06-12-2022							
Issued to:	ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																	
Type of Industry:	Power Plant										Customer Representative: Kamlesh Jha							
Sample Drawn by:	IEM Team										Sampling Date: 28-03-2023							
Protocol:	CPCB Guideline & IS Method 3025 Part-01																	
Sampling Location:	SHRIRAMPUR VILLAGE																	
Field Meteorological Information	A. Temp.(°C): 28				R.H. (%): 61				W.C.: Clear				W.D.: NE - SW					
Sample Receiving Date:	29-03-2023					Testing Started: 29-03-2023					Testing Ended: 31-03-2023							

---Test Result---

Sl. No.	Tested Parameter	Unit	Method No.	Limit		Results
				Acceptable	Permissible	
1.	pH value at 25°C	----	IS 3025 (Part-11)	6.5 – 8.5	No Relaxation	6.88
2.	Turbidity	NTU	IS:3025 (Part-10)	1	5	4.18
3.	Colour	Hazen	IS 3025 (Part-04)	5	15	5.0
4.	Odour	----	IS:3025 (Part-05)	Agreeable	Agreeable	Agreeable
5.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	500	2000	372.0
6.	Calcium (as Ca ⁺²)	mg/l	IS 3025 (Part-40)	75	200	134.0
7.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part-23)	200	600	20.0
8.	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	200	600	154.0
9.	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part-34)	0.5	No Relaxation	BDL(MDL-0.1)
10.	Chloride (as Cl ⁻)	mg/l	IS:3025 (Part-32)	250	1000	52.48
11.	Free Residual Chlorine	mg/l	IS:3025 (Part-26)	0.2	1.0	BDL(MDL-2.0)
12.	Sulphate (as SO ₄)	mg/l	IS:3025 (Part-24)	200	400	26.11
13.	Magnesium (as Mg)	mg/l	APHA 3500	30	100	4.86
14.	Sodium (as Na)	mg/l	IS 3025 (Part-45)	-----	-----	741
15.	Potassium (as K)	mg/l	IS 3025 (Part-45)	-----	-----	4.56

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	IS 10500 :2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

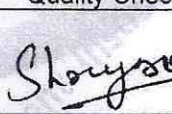
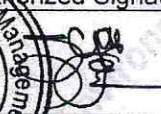
Sample Drawn By: Rahul Kr. Singh & Team

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Quality Checked by _____ Authorized Signatory


(Shreya Sonal)
Dy. Quality Manager

S. C. Jain
Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



Institute for Environmental Management



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ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical		Group: Water		Sub-Group: Ground Water	
Report Issue Date: 31-03-2023			Test Report No.: RN-230320001SW1		
Sample ID: 230330WA02001			Sample Description: GW (Bore well)		
Challan No./P.O. No.: 3030006457			Challan Date/P.O. Date.: 06-12-2022		
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402					
Type of Industry: Power Plant			Customer Representative: Kamlesh Jha		
Sample Drawn by: IEM Team			Sampling Date: 28-03-2023		
Protocol: CPCB Guideline & IS Method 3025 Part-01					
Sampling Location: SHRIRAMPUR VILLAGE					
Field Meteorological Information		A. Temp.(°C): 28		R.H. (%): 61	
		W.C.: Clear		W.D.: NE - SW	
Sample Receiving Date: 29-03-2023		Testing Started: 29-03-2023		Testing Ended: 31-03-2023	

---Test Result---

Sl. No.	Tested Parameter	Unit	Method No.	Limit		Results
				Acceptable	Permissible	
1.	Taste	---	IS:3025 (Part-07)	Agreeable	Agreeable	Agreeable
2.	Nitrate (as NO ₃)	mg/l	IS:3025 (Part-34)	45	No Relaxation	1.26
3.	Fluoride (as F ⁻)	mg/l	APHA 4500	1.0	1.5	0.68
4.	Sulfide	mg/l	IS:3025 (Part-29)	0.05	No Relaxation	BDL(MDL-1.0)

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	IS 10500 :2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

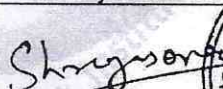
Sample Drawn By: Rahul Kr. Singh & Team

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Quality Checked by Authorized Signatory


(Shreya Sonal)
Dy. Quality Manager

(S. C. Jain)
Director



Institute for Environmental Management

Accredited by Jharkhand State Pollution Control Board, JSPCB
National Accreditation Board for Testing Laboratory (NABL) vide TC-11515
Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	4	0		
Discipline: Chemical	Group: Residues and Contaminants in Water										Sub-Group: Trace Metals elements								
Report Issue Date: 31-03-2023										Test Report No.: RN-230320001GW1									
Sample ID: 230330RC02001										Sample Description: Ground Water									
Challan No./P.O. No.: 3030006457										Challan Date/P.O. Date.: 06-12-2022									
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																			
Type of Industry: Power Plant										Customer Representative: Kamlesh Jha									
Sample Drawn by: IEM Team										Sampling Date: 28-03-2023									
Protocol: IS Method & CPCB Guideline																			
Sampling Location: SHRIRAMPUR VILLAGE																			
Field Meteorological Information				A. Temp.(°C): 28				R.H. (%): 61				W.C.: Clear				W.D.: NE - SW			
Sample Receiving Date: 29-03-2023				Testing Started: 29-03-2023				Testing Ended: 31-03-2023											

----Test Result----

Sl.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Copper	mg/l	APHA 3111 B.2017	0.05 - 1.5	0.06
2.	Chromium	mg/l	APHA 3111 B.2017	0.05 - No Relaxation	BDL (MDL- 0.04)
3.	Lead	mg/l	APHA 3111 B.2017	0.01 - No Relaxation	BDL (MDL- 0.03)
4.	Zinc	mg/l	APHA 3111 B.2017	05 - 15	BDL (MDL- 0.04)
5.	Nickel	mg/l	APHA 3111 B.2017	0.3 - No Relaxation	BDL (MDL- 0.03)
6.	Mercury	mg/l	APHA 3111 C.2017	0.001 - No Relaxation	BDL (MDL - 0.008)
7.	Total Arsenic	mg/l	APHA 3111 C.2017	0.01 - No Relaxation	BDL (MDL - 0.012)
8.	Manganese	mg/l	APHA 3111 B.2017	0.1 - 0.3	BDL (MDL - 0.08)

----End Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As Per IS 10500:2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

Sample Drawn By: Rahul Kr. Singh & Team

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Quality Checked and Authorized Signatory


(Shreya Sonar)

(Dr. S. C. Jain)

Dy. Quality Manager Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
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Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



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Certified by ISO 9001:2015 (Quality Management System)
ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical	Group: Residues and Contaminants in Water	Sub-Group: Trace Metals elements	
Report Issue Date: 31-03-2023	Test Report No.: RN-230320001GW1		
Sample ID: 230330RC02001	Sample Description: Ground Water		
Challan No./P.O. No.: 3030006457	Challan Date/P.O. Date.: 06-12-2022		
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402			
Type of Industry: Power Plant	Customer Representative: Kamlesh Jha		
Sample Drawn by: IEM Team	Sampling Date: 28-03-2023		
Protocol: IS Method & CPCB Guideline			
Sampling Location: SHRIRAMPUR VILLAGE			
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 61	W.C.: Clear
			W.D.: NE - SW
Sample Receiving Date: 29-03-2023	Testing Started: 29-03-2023		Testing Ended: 31-03-2023

----Test Result----

Sl.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Iron	mg/l	APHA 3111 B.2017	1.0 - No Relaxation	0.18

----End Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As Per IS 10500:2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

Sample Drawn By: Rahul Kr. Singh & Team

Specific Contractual Notes: -

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Quality Checked by Environment Authorized Signatory

Shreyas Sonal
(Shreyas Sonal)
Dy. Quality Manager



S. C. Jain
(S. C. Jain)
Director



Institute for Environmental Management

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National Accreditation Board for Testing Laboratory (NABL) vide TC-11515
Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	3	9
Discipline: Chemical						Group: Water						Sub-Group: Ground Water					
Report Issue Date: 31-03-2023									Test Report No.: RN-230320001GW2								
Sample ID: 230330WA02002									Sample Description: GW (Bore well)								
Challan No./P.O. No.: 3030006457									Challan Date/P.O. Date.: 06-12-2022								
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																	
Type of Industry: Power Plant									Customer Representative: Kamlesh Jha								
Sample Drawn by: IEM Team									Sampling Date: 28-03-2023								
Protocol: CPCB Guideline & IS Method 3025 Part-01																	
Sampling Location: KADAMPUR VILLAGE																	
Field Meteorological Information A. Temp.(°C): 28 R.H. (%): 61 W.C.: Clear W.D.: NE - SW																	
Sample Receiving Date: 29-03-2023						Testing Started: 29-03-2023						Testing Ended: 31-03-2023					

---Test Result---

Sl. No.	Tested Parameter	Unit	Method No.	Limit		Results
				Acceptable	Permissible	
1.	pH value at 25°C	----	IS 3025 (Part-11)	6.5 – 8.5	No Relaxation	6.76
2.	Turbidity	NTU	IS:3025 (Part-10)	1	5	4.20
3.	Colour	Hazen	IS 3025 (Part-04)	5	15	5.0
4.	Odour	----	IS:3025 (Part-05)	Agreeable	Agreeable	Agreeable
5.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	500	2000	359.0
6.	Calcium (as Ca ²⁺)	mg/l	IS 3025 (Part-40)	75	200	52.91
7.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part-23)	200	600	15.0
8.	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	200	600	162.0
9.	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part-34)	0.5	No Relaxation	BDL(MDL-0.1)
10.	Chloride (as Cl ⁻)	mg/l	IS:3025 (Part-32)	250	1000	54.98
11.	Free Residual Chlorine	mg/l	IS:3025 (Part-26)	0.2	1.0	BDL(MDL-2.0)
12.	Sulphate (as SO ₄)	mg/l	IS:3025 (Part-24)	200	400	29.33
13.	Magnesium (as Mg)	mg/l	APHA 3500	30	100	7.29
14.	Sodium (as Na)	mg/l	IS 3025 (Part-45)	-----	-----	6.82
15.	Potassium (as K)	mg/l	IS 3025 (Part-45)	-----	-----	3.89

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	IS 10500 :2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

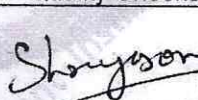
Sample Drawn By: Rahul Kr. Singh & Team

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Quality Checked by _____ Authorized Signatory


(Shreya Sonal)
Dy. Quality Manager
Ranchi


(S. C. Jain)
Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
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Institute for Environmental Management



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ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical	Group: Water	Sub-Group: Ground Water
Report Issue Date: 31-03-2023	Test Report No.: RN-230320001SW2	
Sample ID: 230330WA02002	Sample Description: GW (Bore well)	
Challan No./P.O. No.: 3030006457	Challan Date/P.O. Date.: 06-12-2022	
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402		
Type of Industry: Power Plant	Customer Representative: Kamlesh Jha	
Sample Drawn by: IEM Team	Sampling Date: 28-03-2023	
Protocol: CPCB Guideline & IS Method 3025 Part-01		
Sampling Location: KADAMPUR VILLAGE		
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 61
	W.C.: Clear	W.D.: NE - SW
Sample Receiving Date: 29-03-2023	Testing Started: 29-03-2023	Testing Ended: 31-03-2023

---Test Result---

Sl. No.	Tested Parameter	Unit	Method No.	Limit		Results
				Acceptable	Permissible	
1.	Taste	---	IS:3025 (Part-07)	Agreeable	Agreeable	Agreeable
2.	Nitrate (as NO ₃)	mg/l	IS:3025 (Part-34)	45	No Relaxation	0.68
3.	Fluoride (as F ⁻)	mg/l	APHA 4500	1.0	1.5	0.50
4.	Sulfide	mg/l	IS:3025 (Part-29)	0.05	No Relaxation	BDL(MDL-1.0)

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	IS 10500 :2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

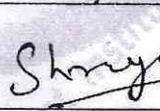
Sample Drawn By: Rahul Kr. Singh & Team

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Quality Checked by Authorized Signatory


(Shreya Soni)
Dy. Quality Manager


S. C. Jain
Director



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National Accreditation Board for Testing Laboratory (NABL) vide TC-11515
Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	4	1		
Discipline: Chemical	Group: Residues and Contaminants in Water										Sub-Group: Trace Metals elements									
Report Issue Date: 31-03-2023										Test Report No.: RN-230320001GW2										
Sample ID: 230330RC02002										Sample Description: Ground Water										
Challan No./P.O. No.: 3030006457										Challan Date/P.O. Date.: 06-12-2022										
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																				
Type of Industry: Power Plant										Customer Representative: Kamlesh Jha										
Sample Drawn by: IEM Team										Sampling Date: 28-03-2023										
Protocol: IS Method & CPCB Guideline																				
Sampling Location: KADAMPUR VILLAGE																				
Field Meteorological Information										A. Temp.(°C): 28				R.H. (%): 61		W.C.: Clear		W.D.: NE - SW		
Sample Receiving Date: 29-03-2023										Testing Started: 29-03-2023					Testing Ended: 31-03-2023					

---Test Result---

Sl.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Copper	mg/l	APHA 3111 B.2017	0.05 - 1.5	0.09
2.	Chromium	mg/l	APHA 3111 B.2017	0.05 - No Relaxation	BDL (MDL - 0.04)
3.	Lead	mg/l	APHA 3111 B.2017	0.01 - No Relaxation	BDL (MDL - 0.03)
4.	Zinc	mg/l	APHA 3111 B.2017	05 - 15	BDL (MDL - 0.04)
5.	Nickel	mg/l	APHA 3111 B.2017	0.3 - No Relaxation	BDL (MDL - 0.03)
6.	Mercury	mg/l	APHA 3111 C.2017	0.001 - No Relaxation	BDL (MDL - 0.008)
7.	Total Arsenic	mg/l	APHA 3111 C.2017	0.01 - No Relaxation	BDL (MDL - 0.012)
8.	Manganese	mg/l	APHA 3111 B.2017	0.1 - 0.3	BDL (MDL - 0.08)

---End Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As Per IS 10500:2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

Sample Drawn By: Rahul Kr. Singh & Team

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Quality Checked by Authorized Signatory

Shreyas Sonal
(Shreyas Sonal)
Dy. Quality Manager

S. C. Jain
(S. C. Jain)
Director

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Institute for Environmental Management



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Certified by	ISO 9001:2015 (Quality Management System) ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical	Group: Residues and Contaminants in Water	Sub-Group: Trace Metals elements	
Report Issue Date: 31-03-2023		Test Report No.: RN-230320001GW2	
Sample ID: 230330RC02002		Sample Description: Ground Water	
Challan No./P.O. No.: 3030006457		Challan Date/P.O. Date.: 06-12-2022	
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402			
Type of Industry: Power Plant		Customer Representative: Kamlesh Jha	
Sample Drawn by: IEM Team		Sampling Date: 28-03-2023	
Protocol: IS Method & CPCB Guideline			
Sampling Location: KADAMPUR VILLAGE			
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 61	W.C.: Clear
			W.D.: NE - SW
Sample Receiving Date: 29-03-2023	Testing Started: 29-03-2023		Testing Ended: 31-03-2023

---Test Result---

Sl.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Iron	mg/l	APHA 3111 B.2017	1.0 - No Relaxation	0.22

---End Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As Per IS 10500:2021
Remark	Sample Comply with prescribed specification.

Tested By: Anshu Gupta

Sample Drawn By: Rahul Kr. Singh & Team

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Quality Checked by _____ Authorized Signatory

Shreyas
(Shreyas Sonal)

Dy. Quality Manager



Dr. S. C. Jain

Director



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Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	4	9	
Discipline: Chemical			Group: Atmospheric Pollution						Sub-Group: Ambient Noise Levels (Excluding Vibration)										
Report Issue Date: 31-03-2023									Test Report No.: RN-230320001N1										
Sample ID: 230330AP02001									Sample Description: Ambient Noise										
Challan No./P.O. No.: 3030006457									Challan Date/P.O. Date.: 06-12-2022										
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																			
Type of Industry: Power Plant									Customer Representative: Kamlesh Jha										
Sample Drawn by: IEM Team									Sampling Date: 27-03-2023 to 28-03-2023										
Protocol: CPCB Guideline & IS Method 9989:1981																			
Sampling Location: Near Sati steel																			
Field Meteorological Information				A. Temp.(°C): 28			R.H. (%): 61			W.C.: Clear				W.D.: NE - SW					
Sample Receiving Date: 30-03-2023						Testing Started: 30-03-2023						Testing Ended: 31-03-2023							

Test Result

Sl. No	Parameter	Method	Unit	Day Time		Night Time		Limits
				1 m	10 m	1 m	10 m	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	54.4	53.8	47.3	46.7	D-75 N-70

End of Reports

Note: -

1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
5. A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
6. Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

Specific Contractual Notes: -

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Quality Checked by Authorized Signatory

Shreyas Sonah
(Shreyas Sonah)
Dy. Quality Manager
Randhi
Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

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Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	5	0
Discipline: Chemical	Group: Atmospheric Pollution								Sub-Group: Ambient Noise Levels (Excluding Vibration)									
Report Issue Date: 31-03-2023									Test Report No.: RN-230320001N2									
Sample ID: 230330AP02002									Sample Description: Ambient Noise									
Challan No./P.O. No.: 3030006457									Challan Date/P.O. Date.: 06-12-2022									
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																		
Type of Industry: Power Plant									Customer Representative: Kamlesh Jha									
Sample Drawn by: IEM Team									Sampling Date: 27-03-2023 to 28-03-2023									
Protocol: CPCB Guideline & IS Method 9989:1981																		
Sampling Location: Near Reservoir																		
Field Meteorological Information			A. Temp.(°C): 28			R.H. (%): 61			W.C.: Clear			W.D.: NE - SW						
Sample Receiving Date: 30-03-2023					Testing Started: 30-03-2023					Testing Ended: 31-03-2023								

---Test Result---

Sl. No	Parameter	Method	Unit	Day Time		Night Time		Limits
				1 m	10 m	1 m	10 m	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	55.6	56.7	47.7	47.3	D-75 N-70

---End of Reports---

Note: -

1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
5. A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
6. Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

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Quality Checked by Environment Authorized Signatory

Shreya Sonali
(Shreya Sonali)
Ranchi

Dy. Quality Manager

Director

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Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	5	1
Discipline: Chemical	Group: Atmospheric Pollution								Sub-Group: Ambient Noise Levels (Excluding Vibration)									
Report Issue Date: 31-03-2023									Test Report No.: RN-230320001N3									
Sample ID: 230330AP02003									Sample Description: Ambient Noise									
Challan No./P.O. No.: 3030006457									Challan Date/P.O. Date.: 06-12-2022									
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																		
Type of Industry: Power Plant									Customer Representative: Kamlesh Jha									
Sample Drawn by: IEM Team									Sampling Date: 27-03-2023 to 28-03-2023									
Protocol: CPCB Guideline & IS Method 9989:1981																		
Sampling Location: Near OHC																		
Field Meteorological Information			A. Temp.(°C): 28			R.H. (%): 61			W.C.: Clear			W.D.: NE - SW						
Sample Receiving Date: 30-03-2023						Testing Started: 30-03-2023						Testing Ended: 31-03-2023						

---Test Result---

Sl. No	Parameter	Method	Unit	Day Time		Night Time		Limits
				1 m	10 m	1 m	10 m	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	59.3	50.8	46.3	44.9	D-75 N-70

---End of Reports---

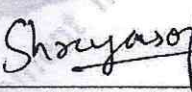
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6. Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

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	(Shreya Sonal)	(S. C. Jain)
	Dy. Quality Manager	Director

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

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Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	5	2
Discipline: Chemical	Group: Atmospheric Pollution								Sub-Group: Ambient Noise Levels (Excluding Vibration)									
Report Issue Date: 31-03-2023									Test Report No.: RN-230320001N4									
Sample ID: 230330AP02004									Sample Description: Ambient Noise									
Challan No./P.O. No.: 3030006457									Challan Date/P.O. Date.: 06-12-2022									
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																		
Type of Industry: Power Plant									Customer Representative: Kamlesh Jha									
Sample Drawn by: IEM Team									Sampling Date: 27-03-2023 to 28-03-2023									
Protocol: CPCB Guideline & IS Method 9989:1981																		
Sampling Location: Near Main Gate																		
Field Meteorological Information			A. Temp.(°C): 28			R.H. (%): 61			W.C.: Clear			W.D.: NE - SW						
Sample Receiving Date: 30-03-2023						Testing Started: 30-03-2023						Testing Ended: 31-03-2023						

---Test Result---

Sl. No	Parameter	Method	Unit	Day Time		Night Time		Limits
				1 m	10 m	1 m	10 m	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	53.7	54.5	48.5	51.7	D-75 N-70

---End of Reports---

Note: -

1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
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6. Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit
Limit is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

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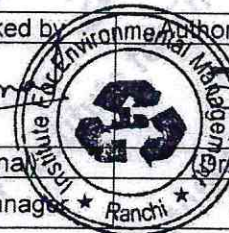
Quality Checked by _____ Authorized Signatory

Shreyas

(Shreyas Sonal)

Dy. Quality Manager

Director



Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

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Institute for Environmental Management

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Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	3	1																	
Discipline:	Chemical				Group:				Atmospheric Pollution				Sub-Group:				Ambient Air																		
Report Issue Date:	31-03-2023									Test Report No.:									RN-230320001A4																
Sample ID:	230330AP01004									Sample Description:									Ambient Air																
Challan No./P.O. No.:	3030006457									Challan Date/P.O. Date.:									06-12-2022																
Issued to:																																			
ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																																			
Type of Industry:									Power Plant									Customer Representative:									Kamlesh Jha								
Sample Drawn by:									IEM Team									Sampling Date:									27-03-2023 to 28-03-2023								
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																																			
Sampling Location: Switch Yard (Core Zone)																																			
Field Meteorological Information					A. Temp.(°C):				28				R.H. (%):				61				W.C.: Clear				W.D.: NE - SW										
Sample Receiving Date:					30-03-2023				Testing Started:					30-03-2023				Testing Ended:					31-03-2023												

---Test Results---

Sl. No.	Parameters	Test Method	Unit	Result	Limits
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006 RA 2017	µg/m ³	74.17	100
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24: 2019	µg/m ³	43.68	60
3.	Sulphure Dioxide (SO ₂)	IS 5182 Part 02: 2001 RA 2017	µg/m ³	34.80	80
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part 06: 2006 RA 2017	µg/m ³	64.91	80
5.	Ammonia	IS 5182 Part 25: 2018	µg/m ³	31.81	400
6.	Ozone (O ₃)	IS 5182 Part 09: 1974	µg/m ³	37.74	100 (1 Hr.)
7.	Arsenic (As)	USEPA IO 3.2: 1999	ng/m ³	BDL (MDL-2)	--
8.	Lead (Pb)	IS 5182 Part 22: 2004	µg/m ³	0.26	1.0
9.	Nickel (Ni)	IS 5182 Part 26: 2020	ng/m ³	BDL (MDL-4)	--
10.	Benzene (C ₆ H ₆)	IS 5182 Part 11: 2006	µg/m ³	BDL (MDL-0.06)	--

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

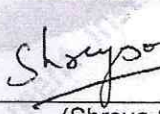
Sample Drawn By: Rahul Kr Singh & Team

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Quality Checked Authorized Signatory


(Shreya Sonalkar)
Dy. Quality Manager


(Dr. S. C. Jain)
Director

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ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 31-03-2023	Test Report No.: RN-230320001A4	
Sample ID: 230330AP01004	Sample Description: Ambient Air	
Challan No./P.O. No.: 3030006457	Challan Date/P.O. Date.: 06-12-2022	
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402		
Type of Industry: Power Plant	Customer Representative: Kamlesh Jha	
Sample Drawn by: IEM Team	Sampling Date: 27-03-2023 to 28-03-2023	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: Switch Yard (Core Zone)		
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 61
	W.C.: Clear	W.D.: NE - SW
Sample Receiving Date: 30-03-2023	Testing Started: 30-03-2023	Testing Ended: 31-03-2023

----Test Results----

Sl. No.	Parameters	Test Method	Unit	Result	Limits
1.	Benzo (a) Pyrene (Bap) Particulate Phase Only	IS 5182 Part 12: 2004	ng/m ³	BDL (MDL-0.18)	--
2	Carbon Monoxide	IEM/SOP/Air-01:2022	mg/m ³	BDL(MDL-1.8)	--

----End of Report----

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL:Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

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Quality Checked by _____ Authorized Signatory

Shreya Sonal 

(Shreya Sonal) (S. C. Jain)

Dy. Quality Manager ★ ★ ★ Director



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ISO 45001:2018



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Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	3	2	
Discipline:	Chemical					Group: Atmospheric Pollution					Sub-Group: Ambient Air								
Report Issue Date:	31-03-2023										Test Report No.: RN-230320001A5								
Sample ID:	230330AP01005										Sample Description: Ambient Air								
Challan No./P.O. No.:	3030006457										Challan Date/P.O. Date.: 06-12-2022								
Issued to:	ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																		
Type of Industry:	Power Plant										Customer Representative: Kamlesh Jha								
Sample Drawn by:	IEM Team										Sampling Date: 27-03-2023 to 28-03-2023								
Protocol:	CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																		
Sampling Location:	Sati Steel (CHP Area)																		
Field Meteorological Information	A. Temp.(°C): 28					R.H. (%): 61					W.C.: Clear					W.D.: NE - SW			
Sample Receiving Date:	30-03-2023					Testing Started: 30-03-2023					Testing Ended: 31-03-2023								

---Test Results---

Sl. No.	Parameters	Test Method	Unit	Result	Limits
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006 RA 2017	µg/m ³	94.95	100
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24: 2019	µg/m ³	54.60	60
3.	Sulphure Dioxide (SO ₂)	IS 5182 Part 02: 2001 RA 2017	µg/m ³	41.42	80
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part 06: 2006 RA 2017	µg/m ³	76.16	80
5.	Ammonia	IS 5182 Part 25: 2018	µg/m ³	47.72	400
6.	Ozone (O ₃)	IS 5182 Part 09: 1974	µg/m ³	31.78	100 (1 Hr.)
7.	Arsenic (As)	USEPA IO 3.2: 1999	ng/m ³	BDL (MDL-2)	--
8.	Lead (Pb)	IS 5182 Part 22: 2004	µg/m ³	0.35	1.0
9.	Nickel (Ni)	IS 5182 Part 26: 2020	ng/m ³	BDL (MDL-4)	--
10.	Benzene (C ₆ H ₆)	IS 5182 Part 11: 2006	µg/m ³	BDL (MDL-0.06)	--

---End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL:Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

Specific Contractual Notes: -

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Quality Checked by Authorized Signatory

Shreya Sonab
(Shreya Sonab S. C. Jain)
Dy. Quality Manager Director

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ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Ambient Air	
Report Issue Date: 31-03-2023			Test Report No.: RN-230320001A5		
Sample ID: 230330AP01005			Sample Description: Ambient Air		
Challan No./P.O. No.: 3030006457			Challan Date/P.O. Date.: 06-12-2022		
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402					
Type of Industry: Power Plant			Customer Representative: Kamlesh Jha		
Sample Drawn by: IEM Team			Sampling Date: 27-03-2023 to 28-03-2023		
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series					
Sampling Location: Sati Steel (CHP Area)					
Field Meteorological Information		A. Temp.(°C): 28	R.H. (%): 61	W.C.: Clear	W.D.: NE - SW
Sample Receiving Date: 30-03-2023		Testing Started: 30-03-2023		Testing Ended: 31-03-2023	

---Test Results---

Sl. No.	Parameters	Test Method	Unit	Result	Limits
1.	Benzo (a) Pyrene (Bap) Particulate Phase Only	IS 5182 Part 12: 2004	ng/m ³	BDL (MDL-0.18)	--
2	Carbon Monoxide	IEM/SOP/Air-01:2022	mg/m ³	BDL(MDL-1.8)	--

---End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL:Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

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Quality Checked by Authorized Signatory

Shreya Sonavane
(Shreya Sonavane) S. C. Jain

Dy. Quality Manager * Ranchi * Director



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Certified By ISO 9001:2015 (QMS) & ISO 45001:2018



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	0	3	3	
Discipline:	Chemical					Group: Atmospheric Pollution					Sub-Group: Ambient Air								
Report Issue Date:	31-03-2023										Test Report No.: RN-230320001A6								
Sample ID:	230330AP01006										Sample Description: Ambient Air								
Challan No./P.O. No.:	3030006457										Challan Date/P.O. Date.: 06-12-2022								
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402																			
Type of Industry: Power Plant										Customer Representative: Kamlesh Jha									
Sample Drawn by: IEM Team										Sampling Date: 27-03-2023 to 28-03-2023									
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																			
Sampling Location: Bachelor Hostel (Core Zone)																			
Field Meteorological Information					A. Temp.(°C): 28				R.H. (%): 61				W.C.: Clear				W.D.: NE - SW		
Sample Receiving Date: 30-03-2023					Testing Started: 30-03-2023					Testing Ended: 31-03-2023									

---Test Results---

Sl. No.	Parameters	Test Method	Unit	Result	Limits
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006 RA 2017	µg/m ³	74.71	100
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24: 2019	µg/m ³	52.50	60
3.	Sulphure Dioxide (SO ₂)	IS 5182 Part 02: 2001 RA 2017	µg/m ³	43.91	80
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part 06: 2006 RA 2017	µg/m ³	78.76	80
5.	Ammonia	IS 5182 Part 25: 2018	µg/m ³	23.86	400
6.	Ozone (O ₃)	IS 5182 Part 09: 1974	µg/m ³	32.35	100 (1 Hr.)
7.	Arsenic (As)	USEPA IO 3.2: 1999	ng/m ³	BDL (MDL-2)	--
8.	Lead (Pb)	IS 5182 Part 22: 2004	µg/m ³	0.28	1.0
9.	Nickel (Ni)	IS 5182 Part 26: 2020	ng/m ³	BDL (MDL-4)	--
10.	Benzene (C ₆ H ₆)	IS 5182 Part 11: 2006	µg/m ³	BDL (MDL-0.06)	--

---End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL:Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

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Quality Checked and Authorized Signatory

Shreyas

(Shreyas Soni) (Dr. S. C. Jain)

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ISO 45001:2018 (Occupational Health & Safety Management System)

Test Report

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 31-03-2023	Test Report No.: RN-230320001A6	
Sample ID: 230330AP01006	Sample Description: Ambient Air	
Challan No./P.O. No.: 3030006457	Challan Date/P.O. Date.: 06-12-2022	
Issued to: ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402		
Type of Industry: Power Plant	Customer Representative: Kamlesh Jha	
Sample Drawn by: IEM Team	Sampling Date: 27-03-2023 to 28-03-2023	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: Bachelor Hostel (Core Zone)		
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 61
	W.C.: Clear	W.D.: NE - SW
Sample Receiving Date: 30-03-2023	Testing Started: 30-03-2023	Testing Ended: 31-03-2023

---Test Results---

Sl. No.	Parameters	Test Method	Unit	Result	Limits
1.	Benzo (a) Pyrene (Bap) Particulate Phase Only	IS 5182 Part 12: 2004	ng/m ³	BDL (MDL-0.18)	--
2	Carbon Monoxide	IEM/SOP/Air-01:2022	mg/m ³	BDL(MDL-1.8)	--

---End of Report---

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL:Below Detection Limit
Limit is Specified	As per the Environmental (Protection) Rule - 1986
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr Singh & Team

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Quality Checked by

Authorized Signatory

Shreyasom

(Shreyas Sonal)

Dy. Quality Manager

C. Jain

(C. Jain)

Director



ISO 9001:2015

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ISO 45001:2018



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CIN - U40101WB2005PLC102935

01.12.2022

Office Order

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

Roles & Responsibility of Environment Cell

Following the broad scope of the Cell

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

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

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

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

REGD. OFFICE

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

Website

: www.adhunikgroup.com



ADHUNIK POWER & NATURAL RESOURCES LIMITED

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

01.12.2022

Annexure I

Responsibilities of the members of the environment management cell

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

[Signature]
11/12/2022
DGM(HR)

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

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

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

Website : www.adhunikgroup.com



ADHUNIK POWER & NATURAL RESOURCES LIMITED

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

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,

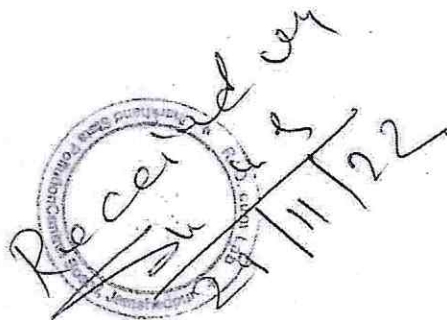
For Adhunik Power & Natural resources Limited

(Authorized Signatory)

Encl: As Above

Copy to:

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



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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 faithfully

Kamlesh Kumar

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



Ry
Booked
22/9/2022

सर्जना जी
2/11/22



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