



ADHUNIK POWER & NATURAL RESOURCES LIMITED

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

Ref No APNRL/JSPCB/ES/2022-23/02

Date: 20th Sep 2023

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

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

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

Dear Sir,

In line with compliance of above referred EC letter point No XIII of general condition, Please
find attached herewith Environmental statement (Form V) for the financial year 2022-23.

This is for your kind information & record please.

Thanking You

Your's faithfully

Kamlesh Kumar

Manager (Environment)

Encl: As mentioned above

CC: 1. Integrated Regional Office -Ranchi,

Ministry of Environment, Forest and Climate Change,

2nd Floor, Jharkhand State Housing Board(HQ)

Harmu Chaouk, Ranchi, Jharkhand-834002



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

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

REGD. OFFICE

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

Website

: www.adhunikpower.com

ENVIRONMENTAL STATEMENT

For

1 X 270 MW COAL BASED THERMAL POWER PLANT

(UNIT II)

FINANCIAL YEAR 2022-23



September 2023



Adhunik Power & Natural Resources Ltd
Village-Padampur, District-Saraikela-Kharsawan
Jharkhand-832402

FORM-V

From:

Adhunik Power & Natural Resources Limited

Village: Padampur

Dist: Saraikela-Kharsawan – 832 402

Jharkhand.

To,

Member Secretary

Jharkhand State Pollution Control Board,

HEC Campus, Dhurva,

Ranchi , Jharkhand.

**Environmental Audit Statement for the financial year ending on the 31st March-2023 for
Unit-II (1 x 270 MW)**

PART – A

- | | | | |
|-------|---|---|---|
| (i) | Name & Address of the owner/occupier of the Industry operation or process | : | Sh. G.D. Agarwal
Adhunik Power & Natural Resources Ltd, Vill- Padampur, Adityapur- Kandra Road, Dist- Sariekela- Kharswan, Jharkhand |
| (ii) | Industry Category | : | Red Category |
| (iii) | Production Capacity – (Units-MW) | : | Power
270 MW Per Hour |
| (iv) | Year of Establishment
(COMMERCIAL PRODUCTION DECLARED) | : | 19 th May 2013 |
| (v) | Date of Last Environmental Statement Submitted | : | 20th September 2022 |

PART-B

Water and Raw Material Consumption

(i) Water Consumption KL/Day

Process : 1234.6

Cooling : 10768.3

Domestic : 97.08

Name of product	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
	2021-22	2022-23
Electricity 270 MW Per Hour	0.210 KI	0.223 KI

(ii) Raw Material Consumption

Name of Raw Materials	Name of product	Consumption of raw material per unit of output (Total Production)	
		During the previous financial year 2021-22	During the current financial year 2022-23
Coal	Power	0.693 MT	0.690 MT
LDO		0.00018 KL	0.00027 KL

PART – C

Pollution Discharged to environment / unit of output.

(Parameter as specified in the consent issued)

Pollutants	Qty. Of pollutants discharged (Mass / Day)	Concentration of Pollutants in discharges (Mass / Day)	Percentage of variation from prescribed standards with reasons
(i) Water Unit Limit pH 5.5. to 9.0 SS < 100 mg/l Oil & Grease < 10 mg/l BOD ₅ < 30 mg/l COD < 250 mg/l	1) Effluent generated from Cooling tower, DM plant, IBD tank, CPI separator is being utilized in HCD system. 2) Effluent generated from CBD is being reutilized in quenching & dust suppression system. 3) Effluent generated from STP is being utilized for gardening		Concentration are below the prescribed limits. ETP & STP analysis report are enclosed as Annexure I
(ii) Air(Stack) PM SO ₂ NO _x	805.2 Kg/Day 28107.0 Kg/Day 8739 Kg/Day	36.55 mg/Nm ³ 1275.9 mg/Nm ³ 396.7 mg/Nm ³	Concentration are below the prescribed limits. Stack monitoring report are enclosed as Annexure II

Refer to MoEF notification dated 07.12.2015 and amendment to, FGD system installation are in progress to reduce the concentration of SO₂ in Flue gases.

*** The Effluent Treatment facility for Unit I and Unit II is common.**

PART - D
HAZARDOUS WASTES

(As specified under Hazardous Wastes Management and Handling
& Transboundary Movement Rules, 2008)

Hazardous Wastes	Total Quantity (KL).	
	During the previous financial Year 2021-2022	During the current financial Year 2022-2023
1 From Process	Used Oil- 3.135 Kl Waste Oil- 1.672 Kl	Used Oil- 5.016 Kl Waste Oil- 1.671 Kl
2 From Pollution Control Facilities	0 KL	0 KL

- The APNRL has obtained Hazardous Waste Authorization from JSPCB for Collection & Storage of Hazardous waste.
- Waste / Spent Oil is collected at centrally located point in isolated stores area meant for them in sealed M.S. Drums which is further sent to authorized recycler for disposal as per norms of MoEF.

PART -E

Solid Wastes

	Total Quantity (MT)	
	During the previous financial Year 2021-2022	During the current financial Year 2022-2023
(a) From Process • Bottom Ash	95261 MT	72964 MT
(b) From Pollution Control Facility • Fly ash	539810 MT	413461MT
(c) (1) Quantity recycled or re-utilized within the unit		
(2) Sold		
(3) Disposed • Fly Ash • Bottom Ash	539810 MT 50182.8 MT	406473.78 MT 0 MT

PART – F

Please specify the characterization (In terms of composition and quantum) of hazardous as well as solid and indicate disposal practice adopted for both these categories of wastes.

Hazardous Waste:

1) Solid Hazardous Waste:

- Bio medical Waste is generated from OHC is being disposed as per CPCB Guidelines.
- Waste generated from Canteen is used from preparing bio-compost & it is used for plantation.
- For the collection of dry fly ash, silos have been provided with pneumatic system & Bottom ash is led to the Ash dyke through pipeline in wet slurry mode.
- 1.865 Ton E Waste has been disposed through CPCB/JSPCB authorized recyclers.

2) Liquid Hazardous waste:

- In this financial year, 5.016 KL (Used Oil) & 1.671 KL Waste Oil have been generated from process and disposed to authorized recycler as per norms of MoEF.

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the production.

The following practices are adopted for the pollution control & conservation of natural resources:

- We are using effluent water generated from Cooling tower, DM plant, IBD tank for Ash handling system instead of fresh water from River Subarnarekha.
- Extensive tree plantation is under progress as a part of green belt development, which will control the impact of Air pollution and optimize the ambient temperature of surrounding areas.
- Twin flue stack with height of 275 m are provided as per the CPCB guidelines for better dispersion of emissions and keep the concentrations within JSPCB/CPCB specified standards.
- High efficiency Electrostatic precipitators (ESPs) are provided for control of dust emissions into flue gases.
- Dust suppression system is installed at Truck tipping area.
- Dust Extraction system along with bag Filters have been installed at Coal Silo, Coal bunker, Intermediate Silo & Ash Silo to arrest the fugitive emissions.
- Roof sheeting and side cladding in conveyor galleries and TPs are installed to control fugitive dust

- The plant is designed on COC of more than 5 which is helpful in water conservation which further lead to reduction in overall fresh water intake.
- Garland drain connected with coal settling pit are installed in the Coal Stockyards for the reutilize of coal containing water.
- Mist canyons are installed around the coal stock yard for the control of fugitive dust.
- Belt washing system, coal settling pits and waste water recovery system are installed at transfer house for the dust suppression and water recovery.
- Water spraying system is installed in ash pond area for controlling the ash fugitive emissions, if any.
- Effluent Treatment Plant (ETP) and Sewage Treatment Plants (STP) are installed to control water pollution.
- Rain Water harvesting is being practiced in the plant premises, which helps in ground water recharging.
- Good housekeeping is maintained within the plant premises.
Because of the adaptation of aforementioned methods, the quality of emissions and discharges are maintained below the permissible limits prescribed by the MoEF&CC / CPCB / JSPCB.

PART - H

Additional measures / investment proposals for environmental protection including abatement of prevention of pollution.

- APNRL is regularly monitoring ambient air, stack, noise level, water quality and soil quality in and around the plant premises. All the emissions and discharges are meeting the permissible limits prescribed by MoEF / CPCB / JSPCB. It is proposed to further strengthen the monitoring and reporting process.
- Ash Water Recovery System is installed for further reuse of ash water. Green belt development within plant premises is proposed to be accelerated.
- As per New Environment Norms, we are in process to install FGD system & DeNOx system for reducing level of SO₂ and Oxide of Nitrogen in Flue gases.

PART – I

Any other particulars for improving the quality of the environment:

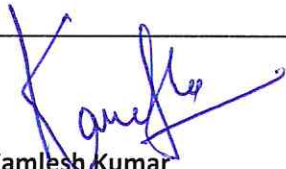
The part – I of any Environmental Statement report is perhaps the best scale to measure various parameters of the plans, target, achievements and ultimate impact. APNRL has made sincere efforts to visualize the general environmental scenario and implemented plan for the associated improvements. Some highlights are mentioned below:

1. Received certification for ISO 9001:2008, ISO 14001: 2004 & ISO 18001:2007 from BSI.
2. Training on EMS to all employees and contract labors to create Environment awareness.

3. Green Belt development is under progress.
4. Only PUC certified vehicles are engaged.
5. Monitoring of Ambient air quality, Surface and ground water quality, stack monitoring, soil, Noise level is being done through MoEF & NABL accredited laboratory.
6. Full-fledged Environmental laboratory has been installed.
7. Installation of Online Effluent monitoring system has been completed.
8. Webhosting of online environment data on CPCB/SPCB website have been completed.
9. Electronics Display board is provided at the main gate for public data display.
10. Audit by recognized organization i.e. ERM has been conducted to improve Environmental & Social Management system (EMS).
11. Celebration of Environmental promotional activities (Environment day, Earth Day, Water day, Ozone day).
12. Remote calibration facility of CEMS has been completed.
13. 200 no Solar light system has been installed in plant premises.

Date: 19/09/2023



Signature : 
Name : Kamlesh Kumar
Designation : Sr. Manager- Environment
Address : Adhunik Power & Natural Resources
Limited, Village : Padampur
Dist: Saraikela-Kharsawan –
832 402. Jharkhand



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	6	
Discipline:	Chemical			Group: Pollution & Environment										Sub-Group: Waste Water					
Report Issue Date:	31-03-2023										Test Report No.: RN-230320001WW01								
Sample ID:	230330PE01001										Sample Description: Waste Water (STP)								
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:	STP 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	6.96
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	11.0
3.	Biochemical Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	5.4
4.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	8.0

---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

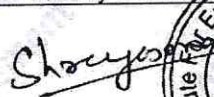
Sample Drawn By: Rahul Kumar Singh & Team

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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 Environmental Authorized Signatory


(Shreya Saha)

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,
Ranchi-834002, Jharkhand, India

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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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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

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



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: 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

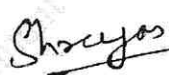
Sample Drawn By: Rahul Kumar Singh & Team

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Quality Checked by _____ Authorized Signatory


(Shreya Soni)

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



ISO 45001:2018



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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	4	3	
Discipline:	Chemical					Group: Atmospheric Pollution					Sub-Group: Stack Emission							
Report Issue Date:	31-03-2023										Test Report No.: RN-230320001S2							
Sample ID:	230330AP05002										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: 12-03-2023								
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series																		
Field Meteorological Information					A. Temp.(°C): 27			R.H. (%): 64			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 - 2	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	387	---
2.	Flue Gas Velocity	IS 11255 (Part-3)	m/s	24.2	---
3.	Flue Gas Volumetric Flow Rate	IS 11255 (Part-3)	Nm ³ /hr.	917882.8	---
4.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm ³	36.55	50
5.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	mg/Nm ³	1275.1	600
6.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	mg/Nm ³	697.59	450
7.	Carbon Monoxide (CO)	IS 13270:1992	%	BDL(MDL-0.2)	---

Dust	Kg/hr	33.55
Sulphur Dioxide	Kg/hr	1170.39
Oxide of Nitrogen	Kg/hr	640.31

---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

Shreyas
(Shreyas Sonar)
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 - 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-230320001S2		
Sample ID: 230330AP05002			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: 12-03-2023		
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series					
Field Meteorological Information		A. Temp.(°C): 27	R.H. (%): 64	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 - 2	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	387	---
2.	Flue Gas Velocity	IS 11255 (Part-3)	m/s	24.2	---
3.	Flue Gas Volumetric Flow Rate	IS 11255 (Part-3)	Nm ³ /hr.	917882.8	---
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

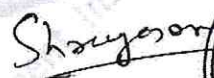
Sample Drawn By: Rahul Kr. Singh & team

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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 Sonal)
Dy. Quality Manager

S. C. Jain
Director



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