



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/2020-21/01

Date: 20th Sep 2021

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

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

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

Dear Sir,

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

This is for your kind information & record please.

Thanking You

Your's faithfully

Kamlesh Kumar
Manager (Environment)

Encl: As mentioned above

CC: 1. Regional Office (ECZ),
Ministry of Environment, Forest and Climate Change,
Bungalow No. A-2, Shyamali Colony, Ranchi – 834002
2. Regional Officer
Jharkhand Pollution Control Board
Jamshedpur, Jharkhand

Received
BS
21-9-2021



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

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

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

Website : www.adhunikpower.com

ENVIRONMENTAL STATEMENT

For

1 X 270 MW COAL BASED THERMAL POWER PLANT

(UNIT I)

FINANCIAL YEAR 2020-21



September 2021



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 Statement for the financial year ending on the 31st March-2021
for Unit-I (1 x 270 MW)

PART – A

- | | | |
|---|---|--|
| (i) Name & Address of the owner/occupier of the Industry operation or process | : | Sh. Raghvendra Kumar Singh
Adhunik Power & Natural Resources
Ltd, Vill- Padampur, Adityapur-
Kandra Road, Dist- Sariekela-
Kharswan, Jharkhand |
| (ii) Industry Category
Primary – STC Code
Secondary – STC Code | : | Red Category |
| (iii) Production Capacity – (Units-MT) | : | Power(270 MWH) |
| (iv) Year of Establishment
(COMMERCIAL PRODUCTION DECLARED) | : | 21 st January-2013 |
| (v) Date of Last Environmental Statement
Submitted | : | 25 th September 2020 |

PART-B

Water and Raw Material Consumption

(i) Water Consumption KL/Day

Process	:	1875.8
Cooling	:	10325.3
Domestic	:	59.8

Name of product	Process water consumption KL/ MW	
	During the previous financial year	During the current financial year
	2019-20	2020-21
Electricity	0.363	0.350

(ii) Raw Material Consumption

Name of Raw Materials	Name of product	Consumption of raw material per MW	
		During the previous financial year 2019-20	During the current financial year 2020-21
Coal	Power	0.71088 MT	0.6752 MT
LDO		0.00048 KL	0.00028 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 Ash Handling 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 is below the prescribed limits. ETP & STP analysis report are enclosed as Annexure I
(ii) Air PM SO ₂ NO _x		24 mg/Nm ³ 1058.13 mg/Nm ³ 323.4 mg/Nm ³	Concentration are below the prescribed limits Stack monitoring report are enclosed as Annexure II

***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 2019-2020	During the current financial Year 2020-21
1 From Process	Used Oil-2.553 KL Waste Oil-1.039 KL	Used Oil-3.786 KL Waste Oil-1.756 KL
2 From Pollution Control Facilities		

- 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 2019-2020	During the current financial Year 2020-21
(a) From Process Bottom Ash	73958.93 MT	59398 MT
(b) From Pollution Control Facility Fly Ash	419100.6 MT	336589 MT
(c) (1) Quantity recycled or re-utilized within the unit		
(2) Sold		
(3) Disposed		
Fly Ash	419100.6 MT	336589 MT
Bottom Ash	73958.93 MT	59398 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.
- E waste are disposed through authorized recyclers/reprocessors.

2) Liquid Hazardous waste:

- In this financial year, 3.786 KL (Used Oil) & 1.756 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.
 - Low NOx burners are installed in fuel combustion system for controlling NOx emissions
 - 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.
 - Green belt has been developed in & around the plant periphery to control the dispersal of dust particles and attenuate the noise generated during the process.
- 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.

PART – I

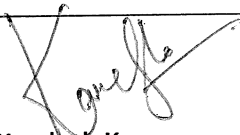
Any other particulars for improving the quality of the environment:

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. Solar light system has been installed in plant premises.

Date: 20/09/2021

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



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - National Accreditation Board for Testing Laboratory (NABL) & Jharkhand State Pollution Control Board (JSPCB)
Certified by: - An ISO 9001:2015 & BS OHSAS 18001 : 2007



Certificate No. - TC 7813

ANALYTICAL TEST REPORT

Water Test Report		URL (Unique Lab Report) No.	TC78132130000028P
Date of Issue	28 th March 2021	Report ID	YBAEEL-210308 -122658 -WW01
Sample Description	Waste Water	Job code / Ref. no.	YBAEEL/WA/LC/Mar.-21/09
Type of Industries	Thermal Power Plant	Work Order No. / Date	3030005309 - 27/02/2021
Issued to: -	M/s Adhunik Power & Natural Resources Limited Vill.- Padampur, Behind PGCIL Sub-station, Jamshedpur-832402, Jharkhand.		
Sampling date	18/03/2021	Mode of sample Collection	By YBAEEL Team
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003	Sample Code	210318 - WW - E01
Sampling Location	Final Outlet of ETP	Sampling Source	Effluent Water
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity	3000 ml
Meteorological cond.	W.C. - Clear	RH - 39 %	Temp. - 29°C
Work allotted date	18/03/2021	Test started on	18/03/2021
		Test completed on	26/03/2021

Test Result					
Sl	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	7.85	5.5 -9.0
2.	Temperature	IS 3025 (P-09)	°C	27.2	40
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	38.0	100
4.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	11.6	1000
5.	BOD	IS 3025 (P-44):2009	mg/l	18.0	30
6.	COD	IS 3025 (P-58):2006	mg/l	100.0	250
7.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	ND (DL 0.02)	--
8.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	0.03	3
9.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	0.03	0.1
10.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	ND (DL 0.1)	5
11.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	9.4	1000

*****End of Test*****

Remarks :- Samples Comply with the prescribed Specification as per IS:2490:1974
Note :- The parameters marked with * are not accredited by NABL.

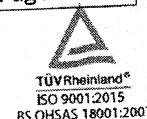
Specific contractual notes: -

- ♦ The results listed refer only to the tested sample and applicable parameter.
- ♦ This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
- ♦ This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge
- ♦ The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing.
- ♦ The liability of the laboratory is limited to the invoiced amount.
- ♦ All disputes are subjected to the Ranchi Jurisdiction.
- ♦ ND - not detected, DL - detectable limit

 Tested by Prem Kumar Lab Analyst	 Checked by Brij Nandan Kumar In-Charge Pollution & Environment	 Issued by Umesh Das Technical Manager
	Authorized Signatory Pollution & Environment Yugantar Bharati Analytical & Environmental Engineering Laboratory	
	Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur	



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



TÜV Rheinland
ISO 9001:2015
BS OHSAS 18001:2007



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Certificate No. - TC 7813

ANALYTICAL TEST REPORT

Water Test Report		URL (Unique Lab Report) No.	TC78132130000029P
Date of Issue	28 th March 2021	Report ID	YBAEEL-210308-122658-WW02
Sample Description	Waste Water	Job code / Ref. no.	YBAEEL/WA/LIC/Mar.-21/10
Type of Industries	Thermal Power Plant	Work Order No. / Date	3030005309 - 27/02/2021
Issued to: -	M/s Adhunik Power & Natural Resources Limited Vill.- Padampur, Behind PGCIL Sub-station, Jamshedpur-832402, Jharkhand.		
Sampling date	18/03/2021	Mode of sample Collection	By YBAEEL Team
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003	Sample Code	210318 - WW - E02
Sampling Location	Final Outlet of STP	Sampling Source	Sewage water
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity	3000 ml
Meteorological cond.	W.C. - Clear	RH - 39 %	Temp. - 29°C
Work allotted date	18/03/2021	Test started on	18/03/2021
		Test completed on	26/03/2021

Test Result

Sl	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	7.59	5.5-9.0
2.	Temperature*	IS 3025 (P-09)	°C	26.9	40
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	48.0	100
4.	BOD	IS 3025 (P-44):2009	mg/l	22.0	30
5.	Oil and grease	IS 3025 (P-39):2003	mg/l	2.4	10
6.	Chloride	IS 3025 (P-32):2003	mg/l	31.8	1000

*****End of Test*****

Remarks :- Samples Comply with the prescribed Specification as per IS:2490:1974.

Note :- The parameters marked with * are not accredited by NABL.

Specific contractual notes: -

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- ♦ The liability of the laboratory is limited to the invoiced amount.
- ♦ All disputes are subjected to the Ranchi Jurisdiction.
- ♦ ND - not detected, DL - detectable limit

Tested by	Checked by	Issued by
Prem Kumar	Brij Nandan Kumar	Umesh Das
Lab Analyst	In-Charge Pollution & Environment	Authorized Signatory
		Technical Manager



Branch Office: - Jamshedpur

Dhanbad

Hazaribag

Pakur

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

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

Page 1 of 1



TÜV Rheinland
ISO 9001:2015
BS OHSAS 18001:2007

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : JE20-000336.001

JOE No : JE20-000336

ULR No : TC672120000002990P

Report Control No : JER0000020547

Sample Described by Customer as : FLUE_GAS

Client Name : ADHUNIK POWER AND NATURAL RESOURCES LIMITED
Client Address : VILL-PADAMPUR, BEHIND PGCIL
 : ARAIKELA-KHARSWAN
Postal Code : 832402
State : Jharkhand
Country : INDIA
Sample Type : FLUE_GAS
Received : 18/09/2020
Marks on Sample : Stack Boiler - 1
Sample : 15.09.2020, time- 12.00 pm to 01.25 pm
Collection Date :
Emission Due to : Burning of Coal
Height of Stack : 275.0 mt.
from Ground :
Level :
Height of : 90.0 mt
Sampling Point :
from GL :
Diameter of Stack : 4.2 mt
at Sampling Point :
Type of Stack : Circular
Platform & : Yes
Ladder at Stack :
Capacity : 270 M.W/hr.
Running Load : 190 M.W/hr.
Fuel : 136 TPH
Consumption :
Fuel Used : Coal
Pollution Control : ESP
Device :
Construction : RCC
Material of Stack :
Sampling Method : SO-IN-MUL-TE-176
Test Start/End Date : 18/09/2020 - 22/09/2020

NABL Accredited Tests

Analysis	Method	Result	Unit
NABL Group :	Atmospheric Pollution	Stack emission	
Oxygen (O2)	USEPA 3A	9.0	%
Sulphur Dioxide (SO2)	IS:11255 (Part-2):1985 (Reaff:2014)	1058.15	mg/Nm3

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Print Date : 22/09/2020

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : JE20-000336.001

JOE No : JE20-000336

ULR No : TC672120000002990P

Report Control No : JER0000020547

NABL Accredited Tests

Analysis	Method	Result	Unit
NABL Group : Atmospheric Pollution Stack emission			
Oxides of Nitrogen as NO2	IS 11255 (Part 07) : 2014	323.4	mg/Nm3
DISCIPLINE: CHEMICAL			
Particulate Matter (PM)	IS 11255 (Part 1) -1995 Reaff-2014	24	mg/Nm3

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Test Report

Print Date : 22/09/2020

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Report No : JE20-000336.001

JOE No : JE20-000336

ULR No : TC672120000002990P

Report Control No : JER0000020547

Non-Accredited tests

Analysis	Method	Result	Unit
NABL Group : Atmospheric Pollution Stack emission			
Moisture	IS 11255 Part 3:1985 (Reaff.2003)	9.6	%
Temperature	IS 11255 Part 3:1985 (Reaff.2003)	108	°C
Barometric Pressure	IS 11255 Part 3:1985 (Reaff.2003)	731	mm Hg
Velocity	IS 11255 Part 3:1985 (Reaff.2003)	20.94	m/s
Quantity of Gas Flow	IS 11255 Part 3:1985 (Reaff.2003)	706641	Nm3/Hrs
Carbon Monoxide (CO)	USEPA 10B	3	mg/Nm3
Carbon Dioxide (CO2)	USEPA 3A	10.4	%

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Test Report

Print Date : 22/09/2020

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Report No : JE20-000336.001

JOE No : JE20-000336

ULR No : TC672120000002990P

Report Control No : JER0000020547

Remark : Instrument No- 02A17

Per pro SGS India Private Ltd

Manish Kumar

Chemist

Authorized Signatory

****End of Report****

Page 4 of 4

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SGS India Pvt. Ltd. 152, New Baradwan Layout Extension, Sakchi, Jamshedpur - 831 001, Jharkhand Contact no : 6572422919 www.sgs.com

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