



ADHUNIK POWER & NATURAL RESOURCES LTD.

(Formerly Adhunik Thermal Energy Limited)

Office : Village Padampur, Behind PGCIL Substation, Adityapur, Kandra Road, P.O: Kandra Saraikela-Kharsawan, Jharkhand-832 402 P PHONE : 0657 6628400 P FAX : 0657 6628440
Website : www.adhunikgroup.com

Ref: MOE&F, RNC/HYC/RA/24620/01

Dated: 24.06.2020

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 2019 to March 2020 -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 2019 to March 2020**.

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



REPORT

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



OCTOBER 2019 – MARCH 2020

**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 2019 to March 2020		
Sl No	EC Conditions	Status as on 31 st March 2020
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 and ash content in used coal conforms the limits.
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/Nm ³	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 2020 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	Agreements made with cement plants, brick plants etc to ensure 100% utilization of fly ash from 4th year onwards. Fly Ash generation & Utilization report (Oct 2019-March 2020) 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

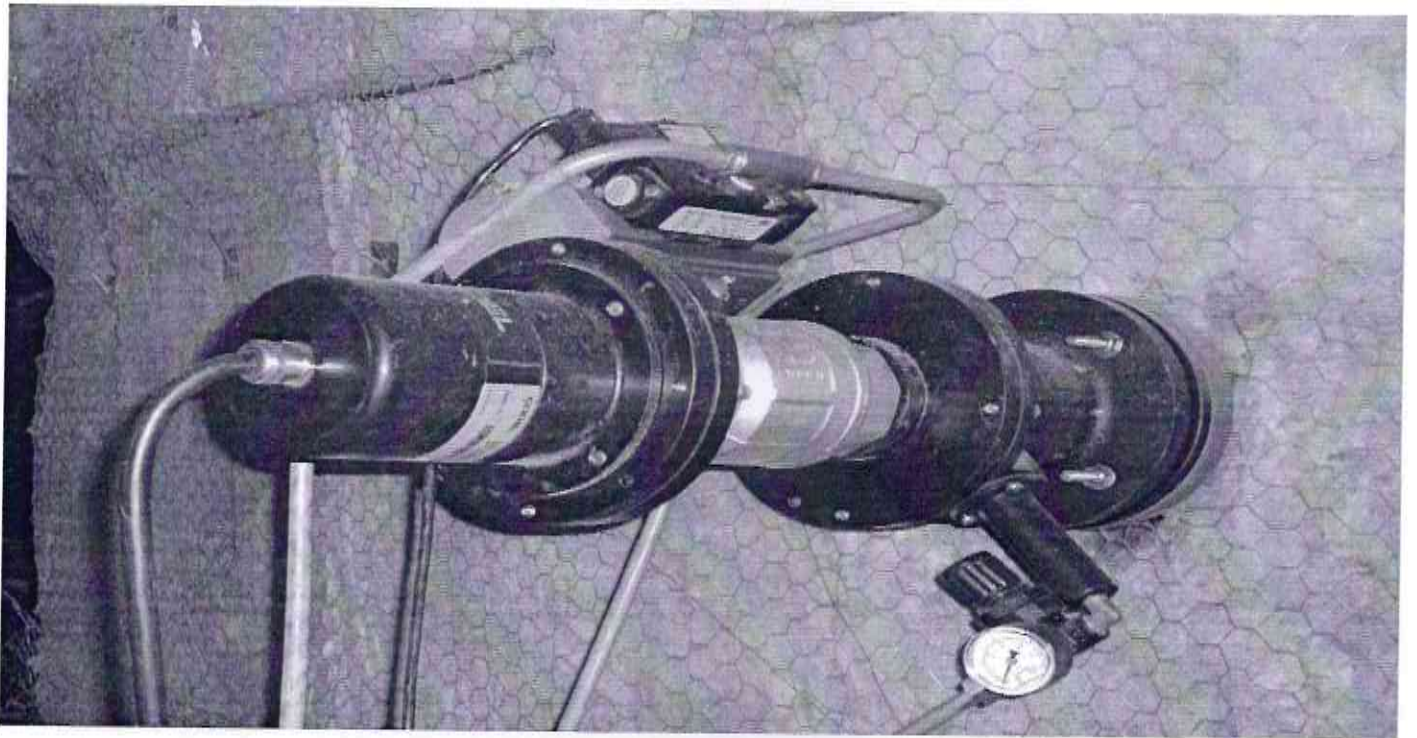
	bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	pond is being done periodically. Bottom ash analysis report & effluent analysis report of ash pond for the month of March 2020 enclosed as Annexure V & Annexure VI respectively.
10	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 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 Guard pond for the month of March 2020 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 Kl capacity (03 No) has installed within plant premises to treat sewage waste. Photographs enclosed as Annexure VIII.
16	Rainwater harvesting should be adopted CGWA shall be consulted for finalization of appropriate rain water technology within a period of three months from the date of clearance and details shall be furnished	The Rain water harvesting report has submitted and approved from CGWA Ranchi. 13 No Rain water harvesting system has been constructed in accordance with the approved rain water harvesting plan.
17	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires of coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to RO of the Ministry at Bhubaneswar.	The design of coal yard along with provision of fire safety measures viz. fire hydrants, water sprinklers has installed and submitted to the Ministry. Complied
18	Storage facilities of auxiliary liquid fuel such as LDO and HFO/LSHS shall be made in the plant area in consultation with dept. Of Explosive, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5 %. DMP shall be prepared to meet any eventuality in case of an accident taking place due to storage oil.	Approval received on dated 15/12/2011. License No. P/HQ/JH/15/1065 (P257355), valid upto 31 st Dec 2022 for LDO storage installation (under Petroleum Class "C") for operations. Copy of Approval are enclosed as Annexure IX. We are using Sulphur content in the liquid fuel within prescribed limit. 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 2020

	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.	enclosed as 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. 67956 nos. (Area covered-30.8 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 till March 2020. Survival rate of sapling is 85.6%. Total Survived plants are 58170. Plantation done Oct 19 to March 20 is 235 samplings. 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 A 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 2020 As Annexure XII.
23	Regular monitoring of ground level concentration of SO2, NOx, RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to RO of ministry. The data shall also be put on the website of the company.	Monitoring of Air quality is being conducted by APNRL on monthly basis. Review of air quality monitoring results revealed compliance to NAAQS. Ambient Air monitoring reports for the month of March 2020 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	Complied.

	are available with the SPCB/committee and may also be seen at Website of the MoEF at http://envfor.nic.in .	
26	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat Zila Praised/Municipal Corporation, urban local body and the local NGO, if 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 2019 to September 2019.
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 2019 to September 2019) for the project along with environmental monitoring data submitted to MoEF RO at Ranchi vide letter No MOE&F,RNC/HYC/RA/251219/01 dated 20 th Dec 2019 . 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 (2018-19) in Form V has submitted vide letter No: APNRL/JSPCB/ES/2018-19/01 dated 20 th Sep 2019. Acknowledgement copy of same enclosed as Annexure XVI. Environment Statement (2018-19) has been uploaded on company website.
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.	Status of compliance of the stipulated EC conditions has been uploaded on company website for the period of April 2019 to September 2020.
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. Year wise (2019-20) expenditure on Environment measures are enclosed as Annexure XVII .
33	The project authorities shall inform the RO as well as the ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work and commissioning of plant.	Complied
34	Full cooperation shall be extended to the Scientists/officers from the ministry / RO of the ministry at Bhubaneswar/the CPCB/the SPCB who would be monitoring the compliance of environmental status.	We ensure.

Continuous emission monitoring system



CODEL

REF: DCEM2100/DS/02

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

Ref: GCEM40A0/DS/02

DATA SHEET		
CO, SO₂, NO_x GAS ANALYSER		
GENERAL		
1.	Make	CODEL International Ltd., UK
2.	Model/Article No	GCEM4000 Series Article no GCEM40A0
3.	Type	Infrared Absorption Analyser-In-Situ type
4.	Qty	2 No.
5.	Tag No.	SO _x HNE10CQ004
		NO _x HNE10CQ001
		CO HNE10CQ002
FEATURES		
6.	Range	CO : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ SO ₂ : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ , NO _x : 0 to 1000ppm, 0 to 1000mg/m ³ , 0 to 1000mg/Nm ³ , CO ₂ : 0 to 25% H ₂ O : 0 to 25% Above ranges are site selectable up to 3000 ppm
7.	Min. detectable conc.	1 ppm, 1mg/m ³ , 1mg/Nm ³ for CO,SO ₂ ,NO _x & 0.5% for CO ₂ ,H ₂ O.
8.	Measurement Units	Fully selectable units-ppm or % by volume, mg/m ³ (measured) and mg/Nm ³ (Normalised to temperature, pressure, H ₂ O & CO ₂)
9.	Measurement averaging	Fully selectable in range 10Sec to 1 hour
10.	Response time (T90)	Detector less than 10 seconds, Calibration less than 200 seconds.
11.	Auto & manual calibration	In built and selectable
12.	Function	Continuous function
13.	Accuracy	+/- 2% of measured value for CO,SO ₂ , NO _x ,& 0.5% for CO ₂ & H ₂ O
14.	Zero /span drift(24hrs)	Over all drift less than +/-2% per month
15.	Repeatability	Less than 2% of span
16.	Sensitivity	1 ppm for CO,SO ₂ ,NO _x , 0.5% for CO ₂ ,H ₂ O
17.	Linearity	Less than 2%
18.	LCD Display	LCD with back light
19.	Power supply	240VAC, 50-60Hz, +/-10% 400VA
20.	Outputs	Analog : 5 x 4-20 mA isolated, max. 500 Ohms, full configurable from Keypad for CO,SO ₂ ,NO _x in ppm & CO ₂ ,H ₂ O in % to DCS fully site configurable. Logic: 5 x Volt free contacts, SPCO rated at 50 volt 1A & 1x data invalid output (System fault)
21.	Serial Communications	RS232/RS485 Modbus O/P
22.	Construction material and Enclosures	Electronic Housings (DDU) : Corrosion resistant, epoxy coated Aluminium housing sealed to IP 66 Probe : SS316L.
DESIGN CONDITIONS		
23.	Infrared source	Heater cartridge assembly
24.	Infrared detector	Lead selenid detector
25.	Ambient air temp.	Transceiver unit 0 to 70 °C, Electronic unit (PSU & DDU) 0 to 60 °C
26.	Flue gas temp.	Up to 350 deg.C

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



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

Certificate No. - TC 7813

Atmospheric Pollution Test Report		URL (Unique Lab Report) NO.	TC78132020000090P
Report Release Date	23 rd March 2020	Report ID	YBAEEL-200304-132814-S01
Sample Description	Boiler Stack -01	Job code/ Ref. no.	YBAEEL/WA/LA/Mar-20/08
Type of Industry	Thermal Power Plant	Work Order No./ Date	3030004681 / 18.02.2020
Issue to	M/s - Adhunik Power & Natural Resources Ltd. Vill - Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand		
Sampling Period	13 th March, 2020	Mode of sample collection	Sampling team of YBAEEL
Sampling Protocol	IS: 11255 & CPCB Guideline (Lats/80/2013-14)		
Meteorological Cond.	W.C.- Haze & Drizzling	RH % - 72%	Temp.-22°C
Sample receipt Date	16.03.2020	Analysis Started on	16.03.2020
		Analysis completed on	23.03.2020

General Information

As observed while sampling		As reported by customer	
Location	Sampling port hole	Type of fuel Used	Coal
Platform	Permanent	Quantity of Fuel Used (during sampling)	168 T/Hr
Stack Description (Shape & Material)	Circular / RCC	Total production Capacity	270 MW
Sampling port	Available	Height of Stack from ground level	275 mtr.
Stack Identification	Stack - 01	Inner Diameter of Stack	4.2mtr.
Height of port hole from Ground level	90mtr.	Pollution Controlling Device	ESP

Test Results

Sl	Parameter s	Test Method	Units	Results	Limits
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	387	-
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	25.3	-
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	964096.4	-
3.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	42.8	50
4.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	516.8	600
5.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	187.5	300

Emission Rate

1.	Particulate Matter (PM)	IS 11255 (Part 1)2009	Kg/hr	41.2	-
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	Kg/hr	498.2	-
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	Kg/hr	180.7	-

End of Report

Remarks	Samples comply with the prescribed standard.	
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,	
Note	The parameters marked with * are not accredited by NABL.	
Specific contractual notes	All values are expressed in as unit.	
	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 collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise	
	The liability of the laboratory is limited to the invoiced amount	
	All disputes are subjected to the Ranchi Jurisdiction	
	Tested by Amit Kr. Singh Lab Analyst	Verified by Brij Nandan Kumar Section In-charge
		Issued by Umesh Das Technical Manager



Authorized Laboratory
Atmospheric Pollution
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

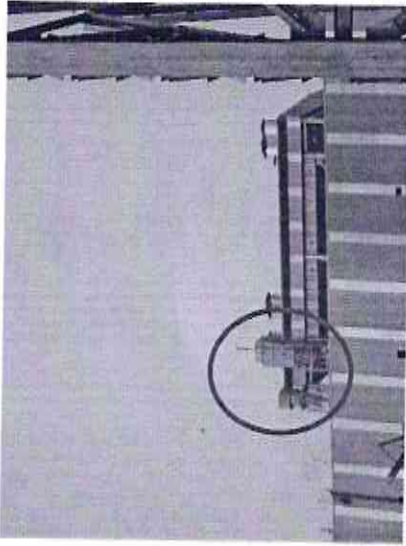
AN ISO 9001:2015 & OHSAS 18001:2007 Certified Laboratory



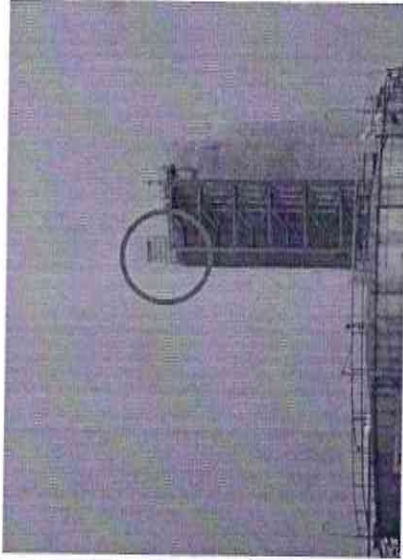
Post Box no. 32 | Namkom Post Office | Sidroul | Ranchi - 834010 (Jharkhand)
Ph. 098351-97960, 9304955304 | Tele Fax : 0651-2260787 | E-mail : ybaeel@gmail.com



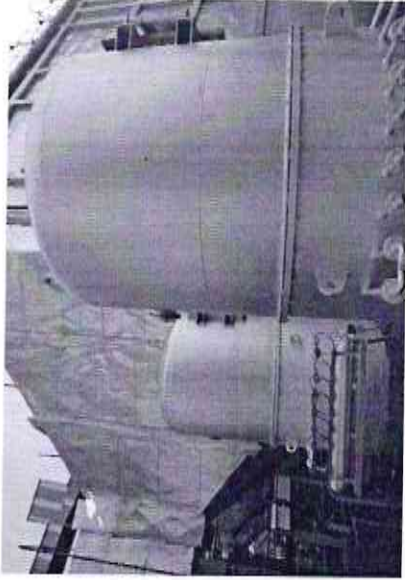
Bag Filter installed at Coal mill building



Bag Filter installed at Ash silo



Bag filter at buffer hopper



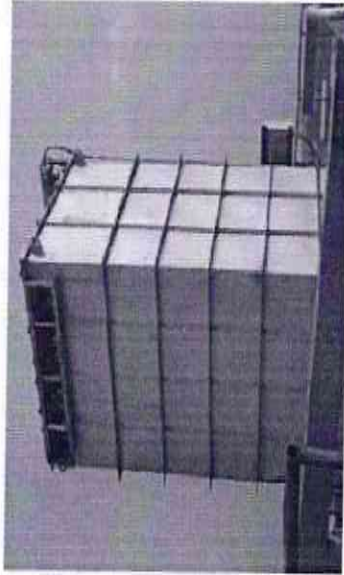
Dust suppression through Tanker



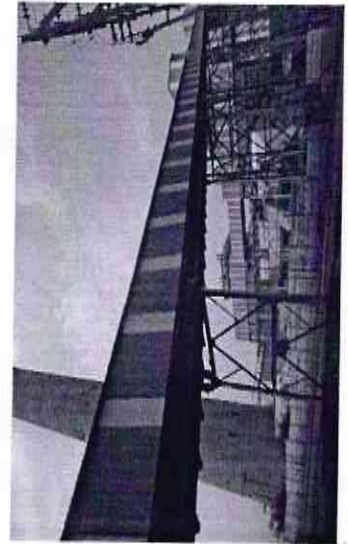
Fixed type DS system for coal Conveyor



DE system at Coal Crusher House



Closed type coal conveying system



Fixed type dust suppression system



Fixed type DS system at Coal Yard



Monthly Abstract of Ash Generation and Utilization
(For the Period from 1st October, 2019 - 31st March, 2020)

Name of Power Utility: Adhunik Power & Natural Resources Ltd
 Installed Capacity (Total): 540 MWH
 Name of Thermal Power Plant: Adhunik Power & Natural Resources Ltd

PERIOD OF REPORT-1st October, 2019 to 31st Mar, 2020

Sl. No.	Months	Ash Generation and Utilization						Mode of Ash Utilization and Utilization In Each Mode										In Mitric Tonne		
		Coal Consumed	Ash Contents of Coal (%)	Fly Ash Generation	Fly Ash Utilization	%age Utilization	In Making of Fly Ash Based bricks/Blocks /Tiles etc	In manufacturing of Portland Pozzolana Cement	In construction of Highways & Road including Flyovers	Part replacement of Cement in Concrete	In Hydro power sector in RCC Dam Construction	In Ash Dyke Raising	In Reclamation of Low Lying Area	In Mine Filling	In Agricultur/Waste Land Development	Others				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)				
1	OCT	160081	42.35	67789	67789	100.0%	6464	27482					33843							
2	NOV	114072	47.24	53889	53889	100.0%	6847	29705					17337							
3	DEC	178892	45.56	81497	81497	100.0%	11872	47089					22536							
4	JAN	178973	52.28	93562	93562	100.0%	13599	63882					16080							
5	FEB	165426	45.28	74902	74902	100.0%	10688	52591					11622							
6	MARCH	177107	45.18	80017	58916	74.0%	6747	42876					9292							

* Fly Ash -18391.5 MT & Bottom Ash -2710.2 MT has been accumulated in ash pond in the month of March 2020 due to non movement of ash containing vehicle during National Lock down.



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

Soil & Sludge Test Report		URL (Unique Lab Report) No.	TC78132030000021P
Issued to : - M/sADHUNIK POWER & NATURAL RESOURCES LIMITED Vill: Padampur, Behind P.G.C.I.L Substation, Jamshedpur-832105, Jharkhandg		Job code - Soil	YBAEEL/WAL/S/Mar-20/01
		Sample Code	200316-S-E01
		Report ID	YBAEEL-200304-132814-S001
		Date of Issue	23 rd March 2020

Sample Particulars		Details of Sampling	
Sample Name/Description	Bottom Ash	Date of sampling	14.03.2020
Sample Quantity	2 kg	Sample Received Date	16.03.2020
Sample pkg. Condition	Sealed in plastic bag	Sampling Protocol	YBAEEL/SP/01/00
Test started on	16.03.2020	Sample collected by	YBAEEL sampling team
Test completed on	23.03.2020	Sample Location	Bottom ash (hopper)

Test Result

Sl. No.	Tested Parameter	Method	Unit	Results
1.	Arsenic	APHA 3114 B	ppm	0.06
2.	Mercury	APHA 3112 B	ppm	0.09
3.	Chromium	APHA 3111 B	ppm	0.55
4.	Lead	APHA 3111 B	ppm	0.94
5.	Cadmium	APHA 3111 B	ppm	0.05
6.	Copper	APHA 3111 B	ppm	0.35
7.	Nickel	APHA 3111 B	ppm	0.62
8.	Selenium	APHA 3111 B	ppm	0.01
9.	Zinc	APHA 3111 B	Ppm	1.01
10.	Unborn carbon *	IS 1350 (Part -2)	%	2.3

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

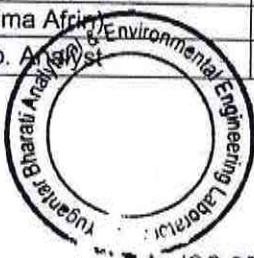
Remarks:-According to tested parameter, the results found as above.

Note : - the Parameter 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 two week of testing.
- ◆ The liability of the laboratory is limited to the invoiced amount.
- ◆ All disputes are subjected to the Ranchi Jurisdiction.

Tested by (Saima Afrin)	Verified by (Bajrang Kumar)	Issued by (Umesh Das)
Lab. Analyst	Section In-Charge	Technical Manager



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

An ISO 9001: 2015 & OHSAS 18001:2007 Certified Laboratory

Post Box no. 32 | Namkom Post Office | Sidroul | Ranchi - 834010 (Jharkhand)
Ph. 098351-97960, 9304955304 | Tele Fax : 0651-2260787 | E-mail : ybaeel@gmail.com



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

Certificate No. - TC 7313

Water Test Report		URL(Unique Lab Report) No.	TC7813293000020P
Issued to : - M/s – Adhunik Power & Natural Resources Ltd. Vill – Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand		Job code – Chemical	YBAEEL/WIL/C/Mar-20/05
		Sample Code	200316-WW-E03
		Report ID	YBAEEL-200304-132814-WW03
		Date of Issue	23 rd March 2020
		Type of Industries (* in case of Industrial Effluent)	Thermal Power Plant
Sample Name/Description	Effluent water	Sampling Protocol	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Date	14 th March 2020
Sample Quantity	4000 ml	Mode of sample Collection	YBAEEL sampling team
Work allotted date	16 th March 2020	Sampling Location	Final Outlet of Ash Pond
Test started on	16 th March 2020	Sampling Source	Ash Pond
Test completed on	23 rd March 2020	Meteorological cond. (RH%, °C)	62 % / 28°C

Test Result

Sl. No.	Tested Parameter	Method	Unit	Results	Permissible Limit (As per IS 2490 Specification)
1.	pH value	IS 3025 (Part-11)	--	6.2	5.5-9.0
2.	Temperature*	IS 3025 (Part 09)	°C	26.8	40
3.	Total Suspended Solids	IS 3025 (Part 17)	mg/l	94.0	100
4.	Arsenic (as As)	APHA 3112 B	mg/l	ND(DL 0.01)	0.2
5.	Oil & grease	IS 3025 (Part 39)	mg/l	4.4	10
6.	Lead as Pb	APHA 3111B	mg/l	ND(DL 0.01)	0.1
7.	Chromium as Cr	APHA 3111B	mg/l	ND(DL 0.01)	0.1
8.	Mercury (as Hg)	APHA 3112 B	mg/l	ND (DL 0.01)	0.01

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

Remarks:- According to the tested parameter, the given samples found to be under the limit of IS 2490,
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.
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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

<i>Saima Afrin</i>	<i>B. Kumar</i>	<i>Umesh Das</i>
Tested by	Checked by	Issued by
Saima Afrin	Bajrang Kumar	Umesh Das
Lab Analyst	Authorized Signatory	Authorized Signatory Technical Manager
An ISO 9001:2015 & OHSAS 18001:2007 Certified Laboratory		
Pollution & Environment		
Page 1 of 1		
Post Box No. 32 Nandigram Post Office Sidrouk, Jharkhand Ph. 098351-9300, 9304955 Tele Fax : 0651-2266 E-mail : ybaeel@gmail.com		



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

Water Test Report		URL (Unique Lab Report) No.	TC78132030000018P
Issued to : - M/s – Adhunik Power & Natural Resources Ltd. Vill – Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand	Job code – Chemical	YBAEEL/WIL/C/Mar-20/03	
	Sample Code	200316-WW-E01	
	Report ID	YBAEEL-200304-132814-WW01	
	Date of Issue	23 rd March 2020	
	Type of Industries (* In case of Industrial Effluent)	Thermal Power Plant	
Sample Name/Description	Effluent water	Sampling Protocol	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Date	14 th March 2020
Sample Quantity	4000 ml	Mode of sample Collection	YBAEEL sampling team
Work allotted date	16 th March 2020	Sampling Location	Final outlet of ETP
Test started on	16 th March 2020	Sampling Source	Effluent Treatment Plant
Test completed on	23 rd March 2020	Meteorological cond. (RH%, °C)	62 % / 28°C

Test Result

Sl. No.	Tested Parameter	Method	Unit	Results	Permissible Limit (As per IS 2490 Specification)
1.	pH value	IS 3025 (Part-11)	--	7.42	5.5-9.0
2.	Temperature*	IS 3025 (Part-09)	°C	26.6	40
3.	Total Suspended Solids	IS 3025 (Part-17)	mg/l	78.0	100
4.	Chloride (as CL ⁻)	IS 3025 (Part-32)	mg/l	15.0	1000
5.	Sulphate (as SO ₄ ²⁻)	IS 3025 (Part-24)	mg/l	11.5	1000
6.	Oil & grease	IS 3025 (Part-39)	mg/l	5.6	10
7.	BOD	IS 3025 (Part-44)	mg/l	12.2	30
8.	COD	IS 3025 (Part-58)	mg/l	72.8	250
9.	Phosphate (as PO ₄ ³⁻)*	IS 3025 (Part-31)	mg/l	0.03	-
10.	Copper (as cu)	APHA 3111 B	mg/l	0.02	3
11.	Iron (as fe)	APHA 3111 B	mg/l	0.32	--
12.	Zinc (as Zn)	APHA 3111 B	mg/l	ND (MDL 0.1)	5

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

Remarks:- According to the tested parameter, the given samples found to be under the limit of IS 2490,

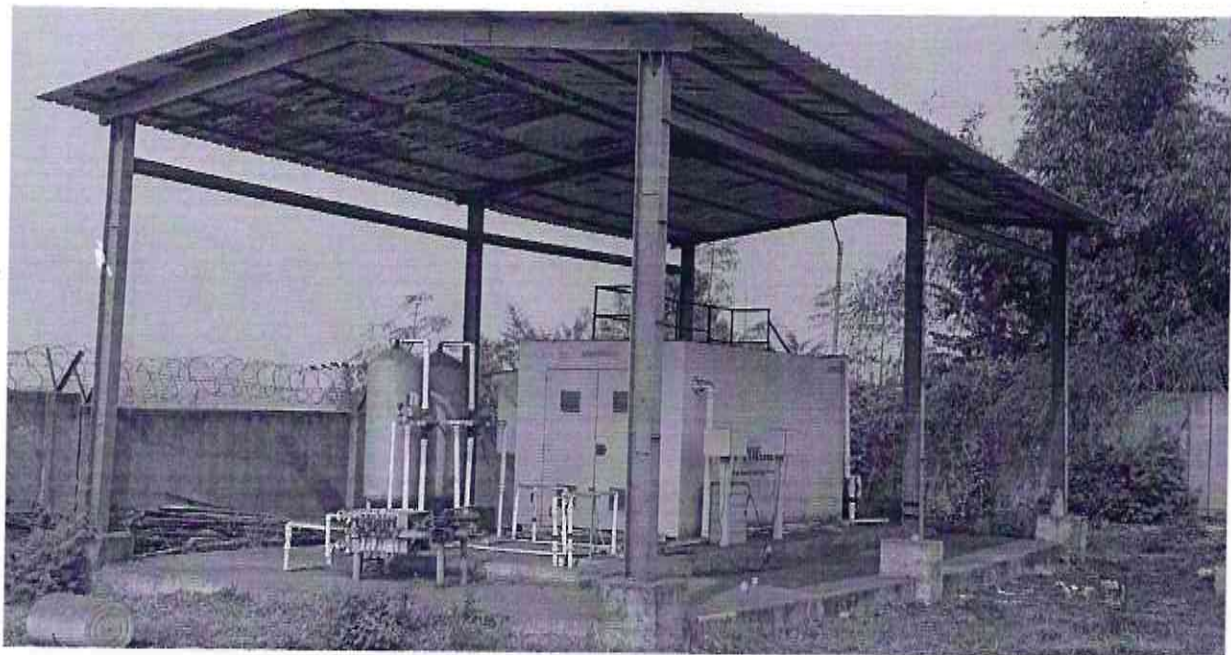
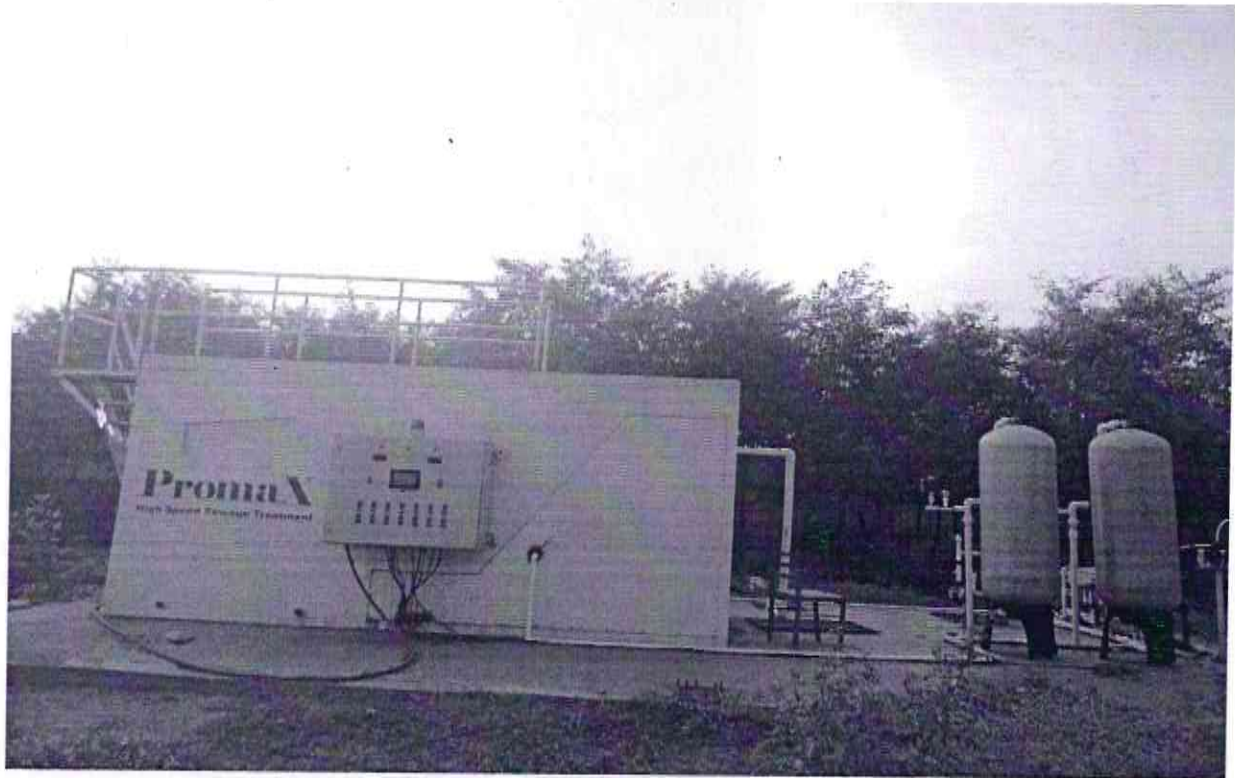
Note: The parameters marked with * are not accredited by NABL.

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- ◆ ND – not detected, DL – detectable limit

<i>Saima Afrin</i>	<i>Bajrang Kumar</i>	<i>Umesh Das</i> 23/3/20
Tested by Saima Afrin Lab Analyst	Checked by Bajrang Kumar Authorized Signatory	Issued by Umesh Das Technical Manager
Post Box No. 32 Namik in Post Office Sidrouli, Jamshedpur (Jharkhand) Ph. 098351-97380 9304955399 Tele Fax : 0651-2260787 E-mail : ybaeel@gmail.com		

Sewage Treatment Plant



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

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

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

फीस रूप (Fee Rs.) 50000/- per year

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

Licence is hereby granted to M/s. Adhunik Power & Natural Resources Ltd., Village-Padampur, Behind PGCIL Substation,, Adityapur-Kandra Road,, Taluka: Adityapur(Gamharla), District: SARAİKELLA KHARSWAN, State: Jharkhand, PIN: 832105 valid only for the importation and storage of 5000.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/JH/15/1065 (P257355) dated 23/12/2011 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

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

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

December 15, 2011

Chief Controller of Explosives

1). Amendment dated - 23/12/2011

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

अनुमत्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टियां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Plot No: Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, District: SARAİKELLA KHARSWAN, State: Jharkhand, PIN: 999999 स्थान पर अवस्थित है तथा उसमें निम्नलिखित Two Petroleum ClassCAboveground storage tanks,togetherwith other connected facilities. सम्मिलित हैं।

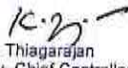
The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, District: SARAİKELLA KHARSWAN, State: Jharkhand, PIN: 999999 and consists of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

पेज सं. 2

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

नवीनीकरण के पृष्ठांकन 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 फूट के दस वर्ष तक नवीभूत की जा सकेगी।
This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
1).		31/12/2013	Sd/- PESO ADMIN
2).	23/09/2013	31/12/2018	Sd/- R.P.Singh Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Ranchi
3).	18/02/2019	31/12/2022	 K. Thiagarajan Dy. Chief Controller of Explosives Ranchi

उप मुख्य विस्फोटक नियंत्रक, राँची
Dy. Chief Controller of Explosives, Ranchi

यदि अनुमति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुमति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुमति रद्द की जा सकती है और अनुमतिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक परचालवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।
This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government of India Enterprise)

QUALITY CONTROL LABORATORY

Visakha New Terminal

CONVENT JN.-SHEELANAGAR ROAD, BEHIND AIRPORT,

VISAKHAPATNAM- 530014

TEST REPORT

Product : HP INDUSTRIAL DIESEL OIL

Customer / Supplier /	: NBOT-BONDED TANKS-PSD	Test Report No.	: BFT/10835
Branch Plant		Date of Sample Drawn	: 20/07/19
Source of Sample	: TK105	Date of Sample Receipt	: 21/07/19
Tank No	: TK105	Date of Sample Testing	: 22/07/19
Qty of Sample/	: 1ltr uml / tk70/868.3 b.no.36/2019		
Density/Type of Sample		Date of Report	: 22/07/19
Catg / Evnt / Actvty	: Aft Receipt thru Dedicated P/L	Date of Printing	: 22/07/19
Receipt/Despatch Mode	:	JDE Sample Number	: 865213
Sample Drawn by	: RAMAKRISHNA	Batch No	:

Test Line Number	Characteristics	Units	Test Method	Specifications		Result Value
				Min	Max	
5	DENSITY@ 15°C	Kg/m3	IS 1448 (P:16)	-	-	867.8
6	KINEMATIC VISCOSITY @ 40°C	cSt	IS 1448 P:25	2,500	15,000	4.860
7	FLASH POINT - PMCC	°C	IS 1448 P:21	66	-	79
8	WATER CONTENT	% Vol	IS 1448 P:40	-	.250	.100
9	TOTAL SULPHUR	% Mass	ASTM D 4294	-	1.50	.47
10	POUR POINT SUMMER	°C	IS 1448 P:10	-	21	3

Remarks:

Sample S.No.BFT/271 meets specification as per IS-15770:2008(Reaffirmed2014) in the above parameters

Appearance : Light Brown

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

Tested By : 35323320
VELAMURI DATTATREYA

Reviewed and Approved By : 35323320
VELAMURI DATTATREYA

*** END OF TEST REPORT ***

Page No. : 1 of 1



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

Baseline Ground Water Quality report

Issued to : - M/s – Adhunik Power & Natural Resources Ltd. Vill – Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand	URL (reference)	TC78132010000019P, TC78132040000014F
	Date of Issue	23 rd March 2020
	Type of Industries (* in case of Industrial Effluent)	Thermal Power Plant

Sample Name/Description	Ground Water	Sampling Protocol	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Date	14 th March 2020
Sample Quantity	4000 ml for each Sample	Mode of sample Collection	YBAEEL sampling team
Work allotted date	16 th March 2020	Sampling Location	Down stream of Ash pond
Test started on	16 th March 2020	Sampling Source	Ground water (Hand pump & Bore well)
Test completed on	23 rd March 2020	Meteorological cond. (RH%, °C)	62 % / 28°C

Sl. No.	Tested Parameter	Method	Unit	Result	Baseline ground Water quality *	Permissible Limit (As per IS 10500 Specification)
1.	pH value	IS 3025 (Part-11)	-	7.3	6.9-7.4	6.5 to 8.5
2.	Total Dissolved Solid	IS 3025 (Part-16)	mg/l	324	251-538	500 - 2000
4.	Colour	IS:3025 (Part-04)	cu	< 5	<5	< 25
5.	Odour*	IS:3025 (Part-05)	-	Agreeable	Unobjectionable	Agreeable
6.	Alkalinity (as CaCO ₃)	IS:3025 (Part-23)	mg/l	208	147-269	200 to 600
7.	Hardness (as CaCO ₃)	IS 3025 (Part-21)	mg/l	172	128-308	200 to 600
8.	Nitrate (as NO ₃)	APHA 4500 NO ₃ - B	mg/l	17.9	03-24	45 to no relaxation
9.	Arsenic (as As)	APHA 3112 B	mg/l	ND (MDL 0.01)	<0.01	0.01 to 0.05
10.	Calcium (as Ca ⁺)	IS 3025 (Part-40)	mg/l	60.0	41-99	75 to 200
12.	Iron (as Fe)	APHA 3111 B	mg/l	0.25	0.13-0.90	0.3 to no relaxation
13.	Zinc (as Zn)	APHA 3111 B	mg/l	0.42	0.31-0.47	5 to 15
14.	Turbidity	IS 3025 (Part 10)	NTU	4	<5	1-5
15.	Taste	IS 3025 (Part 07)	-	Agreeable	Agreeable	Agreeable
16.	Chlorine Residual	IS 3025 (Part 26)	mg/l	ND (MDL 0.07)	<0.05	-
17.	Chloride as Cl	IS 3025 (Part 32)	mg/l	64	42-74	250-1000
18.	Fluoride as F	APHA 4500 FC	mg/l	0.4	0.31-0.50	1-1.5
19.	Lead as Pb	APHA 3111B	mg/l	ND (MDL 0.01)	<0.01	0.01-no relaxation
20.	Chromium as Cr	APHA 3111B	mg/l	ND (MDL 0.01)	<0.01	0.05-no relaxation
21.	Copper as cu	APHA 3111B	mg/l	ND (MDL 0.01)	<0.01	0.05-1.5
25.	Cadmium as Cd	APHA 3111 B	mg/l	ND (MDL 0.01)	<0.01	0.003-no relaxation
26.	Sulphate as SO ₄	IS 3025 (Part 24)	mg/l	18.5	06-28	200-400
30.	Mercury (as Hg)	APHA 3112 B	mg/l	ND (MDL 0.01)	<0.001	-
31.	Total Coliform	APHA 9221 B	MPN/100 ml	ND (MDL 1.1)	ND	Shall not be present in any 100 ml sample
32.	E. Coli	APHA 9221 F	MPN/100 ml	ND (MDL 1.1)	--	

* provided by customer

Tested by Salma Afrin Lab Analyst	Checked by Bajrang Kumar Authorized Signatory	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
---	---	--	---



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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY:

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

Certificate No.- TC 7813

Baseline Ground Water Quality report

Issued to : - M/s – Adhunik Power & Natural Resources Ltd. Vill – Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand	URL (reference)	TC78132010000020P, TC78132040000015F,
	Date of Issue	23 rd March 2020
	Type of Industries (* in case of Industrial Effluent)	Thermal Power Plant

Sample Name/Description	Ground Water	Sampling Protocol	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Date	14 th March 2020
Sample Quantity	4000 ml for each Sample	Mode of sample Collection	YBAEEL sampling team
Work allotted date	16 th March 2020	Sampling Location	Up stream of Ash pond
Test started on	16 th March 2020	Sampling Source	Ground water (Hand pump & Bore well)
Test completed on	23 rd March 2020	Meteorological cond. (RH%, °C)	62 % / 28°C

Sl. No.	Tested Parameter	Method	Unit	Result	Baseline ground Water quality *	Permissible Limit (As per IS 10500 Specification)
1.	pH value	IS 3025 (Part-11)	--	7.1	6.9-7.4	6.5 to 8.5
2.	Total Dissolved Solid	IS 3025 (Part-16)	mg/l	238	251-538	500 - 2000
4.	Colour	IS:3025 (Part-04)	cu	< 5	<5	< 25
5.	Odour*	IS:3025 (Part-05)	-	Agreeable	Unobjectionable	Agreeable
6.	Alkalinity (as CaCO ₃)	IS:3025 (Part-23)	mg/l	180	147-269	200 to 600
7.	Hardness (as CaCO ₃)	IS 3025 (Part-21)	mg/l	156	128-308	200 to 600
8.	Nitrate (as NO ₃)	APHA 4500 NO ₃ - B	mg/l	10.8	03-24	45 to no relaxation
9.	Arsenic (as As)	APHA 3112 B	mg/l	ND (MDL 0.01)	<0.01	0.01 to 0.05
10.	Calcium (as Ca ⁺)	IS 3025 (Part-40)	mg/l	48	41-99	75 to 200
12.	Iron (as Fe)	APHA 3111 B	mg/l	0.21	0.13-0.90	0.3 to no relaxation
13.	Zinc (as Zn)	APHA 3111 B	mg/l	0.38	0.31-0.47	5 to 15
14.	Turbidity	IS 3025 (Part 10)	NTU	3	<5	1-5
15.	Taste	IS 3025 (Part 07)	-	Agreeable	Agreeable	Agreeable
16.	Chlorine Residual	IS 3025 (Part 26)	mg/l	ND (MDL 0.07)	<0.05	-
17.	Chloride as Cl	IS 3025 (Part 32)	mg/l	56	42-74	250-1000
18.	Fluoride as F	APHA 4500 FC	mg/l	0.3	0.31-0.50	1-1.5
19.	Lead as Pb	APHA 3111B	mg/l	ND (MDL 0.01)	<0.01	0.01-no relaxation
20.	Chromium as Cr	APHA 3111B	mg/l	ND (MDL 0.01)	<0.01	0.05-no relaxation
21.	Copper as cu	APHA 3111B	mg/l	ND (MDL 0.01)	<0.01	0.05-1.5
25.	Cadmium as Cd	APHA 3111 B	mg/l	ND (MDL 0.01)	<0.01	0.003-no relaxation
26.	Sulphate as SO ₄	IS 3025 (Part 24)	mg/l	12.2	06-28	200-400
30.	Mercury (as Hg)	APHA 3112 B	mg/l	ND (MDL 0.01)	<0.001	-
31.	Total Coliform	APHA 9221 B	MPN/100 ml	ND (MDL 1.1)	ND	Shall not be present in any 100 ml sample
32.	E. Coll	APHA 9221 F	MPN/100 ml	ND (MDL 1.1)	ND	

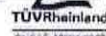
* provided by customer

<i>Saima Afrin</i>	<i>BKumar</i>	<i>Umesh Das</i>
Tested by Saima Afrin Lab Analyst	Checked by Bajrang Kumar Authorized Signatory	Issued by Umesh Das Technical Manager



An ISO 9001:2015 & OHSAS 18001:2007 Certified Laboratory
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Page 1 of 1





YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

Atmospheric Pollution Test Report		URL(Unique Lab Report) No.	TC78132020000088F
Report Release Date	23 rd March 2020	Report ID	YBAEEL-200304-132814-N01
Sample Description	Ambient Noise	Job code/ Ref. no.	YBAEEL/WA/LJA/Mar-20/08
Type of Industry	Thermal Power Plant	Work Order No./ Date	3030004681 / 18.02.2020
Issue to	M/s – Adhunik Power & Natural Resources Ltd. Vill – Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand		
Sampling Period	12 th to 13 th March, 2020	Mode of sample collection	YBAEEL sampling team
Sampling Protocol	IS:9876:1981, (RA 2007), CPCB method (S.O.50(E) dated 11.01.2010		
Meteorological Cond.	Temp. – 22° C	RH % - 75	W.C. - Drizzling & haze
Sample receipt Date	16.03.2020	Analysis Started on	16.03.2020
		Analysis completed on	23.03.2020

****Test Results****

Sl.NO.	Locations	Parameters	Units	Day Time	Night Time
1.	Main Gate Area	Leq	dB(A)	68.1	51.8
2.	Occupational Health Centre	Leq	dB(A)	47.4	36.5
3.	Sati Steel (CHP Area)	Leq	dB(A)	56.5	50.5
4.	Pindraber Gate	Leq	dB(A)	52.6	41.5

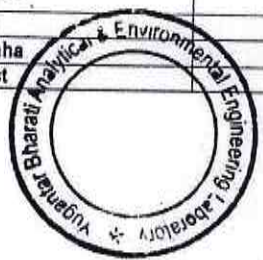
****End of Report****

Sl.No	Category of area	Day (dB(A) Leq)	Night (dB(A) Leq)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

- Day time shall mean from 6.00 a.m. to 10.00 p.m.
- Night time shall mean from 10.00 p.m. to 6.00 a.m.
- Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
- Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.

Remarks	Samples Comply With Prescribe Standards.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Note	The parameters marked with * are not accredited by NABL.
Specific contractual notes	All values are expressed in as unit. 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 collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount All disputes are subjected to the Ranchi Jurisdiction

 Tested by Amit Kr. Sinha Lab Analyst	 Verified by Brij Nandan Kumar Section In-Charge	 Issued by Umesh Das Technical Manager
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Authorized Signatory
Atmospheric Pollution
Yugantar Bharati Analytical &
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Certificate No. - TC 7813

Atmospheric Pollution Test Report		URL(Unique Lab Report) No.	TC78132020000089F	
Report Release Date	23 rd March 2020	Report ID	YBAEEL-200304-132814-N02	
Sample Description	Ambient Noise – Work Zone	Job code/ Ref. no.	YBAEEL/WA/LA/Mar-20/08	
Type of Industry	Thermal Power Plant	Work Order No./ Date	3030004681 / 18.02.2020	
Issue to	M/s – Adhunik Power & Natural Resources Ltd. Vill – Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand			
Sampling Period	13 th to 14 th March, 2020	Mode of sample collection	YBAEEL sampling team	
Sampling Protocol	IS:9876:1981, (RA 2007), CPCB method (S.O.50(E) dated 11.01.2010			
Meteorological Cond.	Temp. -28° C	RH % - 62	W.C. – Partially Cloudy	
Sample receipt Date	16.03.2020	Analysis Started on	16.03.2020	Analysis completed on 23.03.2020

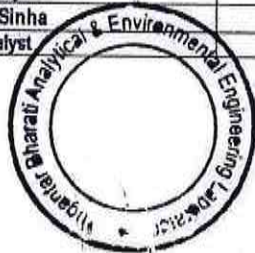
****Test Results ****

SI.NO.	Locations	Parameters	Units	Day Time	Night Time	Limits
1.	Turbine Floor	Leq	dB(A)	81.3	83.1	85 dB
2.	Admin Building	Leq	dB(A)	56.1	48.5	
3.	CHP Area	Leq	dB(A)	78.6	62.3	
4.	Compressor House	Leq	dB(A)	84.3	82.3	
5.	Switch Yard	Leq	dB(A)	55.4	52.5	

****End of Report****

- Day time shall mean from 6.00 a.m. to 10.00 p.m.
- Night time shall mean from 10.00 p.m. to 6.00 a.m.
- Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
- Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.

Remarks	Sample Complies With Prescribe Standards.	
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All disputes are subjected to the Ranchi Jurisdiction		
Tested by Amit Kr. Sinha Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager



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Certificate No. - TC 7813

Atmospheric Pollution Test Report		URL (Unique Lab Report) No.	TC78132020000087P
Report Release Date	23 rd March 2020	Report ID	YBAEEL-200304-132814-A02
Sample Description	Ambient Air Quality - Buffer zone	Job code/ Ref. no.	YBAEEL/WA/L/A/Mar-20/08
Type of Industry	Thermal Power Plant	Work Order No./ Date	3030004681 / 18.02.2020
Issue to	M/s - Adhunik Power & Natural Resources Ltd. Vill - Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand		
Sampling Period	13 th to 14 th March, 2020	Mode of sample collection	YBAEEL sampling team
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-1 (NAAQM/36/2012-13)		
Sampling Locations	A. Padampur village	B. Srirampur village	C. Pindrabera village
Meteorological Cond.	W.C. - Partially cloudy	RH % - 62	Temp. - 28°C
Sample receipt Date	16.03.2020	Analysis Started on	16.03.2020
		Analysis completed on	23.03.2020

Test Results

Parameters	Test Method	Units	Sampling Location			NAAQS (2009)
			Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006 RA 2017	µg/m ³	83.0	88.1	94.0	100
Particulate matter (PM _{2.5})	USEPA -40 CFR (PART 50) (50.7)	µg/m ³	49.7	53.8	58.0	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001-RA 2017	µg/m ³	19.6	22.8	25.6	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	48.3	49.7	53.5	80
Ammonia (NH ₃)	SOP No. YBAEEL/SOP/AIR/01	µg/m ³	35.6	41.1	38.3	400
Ozone (O ₃)*	IS:5182 (P-09) 2006 RA 2016	µg/m ³	23.1	26.0	29.0	180
Carbon Monoxide (CO)*	IS:5182 (P-10) 2006 RA 2014	mg/m ³	1.3	1.4	1.6	04
Lead (Pb)	IS:5182 (P-22) 2004 RA 2014	µg/m ³	ND (DL 0.02)	ND (DL 0.02)	ND (DL 0.02)	01
Nickel (Ni)*	SOP No. YBAEEL/SOP/AIR/01	ng/m ³	ND (DL 8.3)	ND (DL 8.3)	ND (DL 8.3)	20
Arsenic (As)*	SOP No. YBAEEL/SOP/AIR/01	ng/m ³	ND (DL 1.0)	ND (DL 1.0)	ND (DL 1.0)	06
Benzene (C ₆ H ₆)*	IS:5182 (P-11) 2006 RA 2017	µg/m ³	ND (DL 0.06)	ND (DL 1.0)	ND (DL 1.0)	05
Benzo (a)pyrene (BaP)* Particulate Phase Only	IS:5182 (P-12) 2004 RA 2017	ng/m ³	ND (DL 0.2)	ND (DL 0.2)	ND (DL 0.2)	01

End of Report

Remarks	Samples Comply With Prescribed Standard.		
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit		
Note	The parameters marked with * are not accredited by NABL.		
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Tested by	Verified by		Issued by
Amit Kr. Sinha	Brij Nandan Kumar		Umesh Das
Lab Analyst	Section In-Charge		Technical Manager



Yugantar Bharati Analytical & Environmental Engineering Laboratory



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Jharkhand State Pollution Control Board (JSPCB)

Certificate No. - TC 7813

Atmospheric Pollution Test Report		URL(Unique Lab Report) No.	TC78132020000086P
Report Release Date	23 rd March 2020	Report ID	YBAEEL-200304-132814-A01
Sample Description	Ambient Air Quality - Core Zone	Job code/ Ref. no.	YBAEEL/WA/L/A/Mar-20/08
Type of Industry	Thermal Power Plant	Work Order No./ Date	3030004681 / 18.02.2020
Issue to	M/s - Adhunik Power & Natural Resources Ltd. Vill - Padampur, Behind PGCIL substation, Jamshedpur-832402, Jharkhand		
Sampling Period	12 th to 13 th March, 2020	Mode of sample collection	YBAEEL sampling team
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)		
Sampling Locations	A. ADM Building	B. Switch Yard	C. CHP Area
Meteorological Cond.	W.C. - Drizzling & haze	RH % - 75	Temp. - 22 W.D. - north to south
Sample receipt Date	16.03.2020	Analysis Started on	16.03.2020
		Analysis completed on	23.03.2020

****Test Results****

Parameters	Test Method	Units	Sampling Location			NAAQS (2009)
			Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006 RA 2017	µg/m ³	67.1	71.0	84.1	100
Particulate matter (PM _{2.5})	USEPA -40 CFR (PART 50) (50.7)	µg/m ³	41.4	45.6	49.7	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m ³	13.7	18.1	21.8	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	37.5	43.1	45.9	80
Ammonia (NH ₃)	SOP No. YBAEEL/SOP/AIR/01	µg/m ³	28.2	30.1	33.7	400
Ozone (O ₃)*	IS:5182 (P-09) 2006 RA 2016	µg/m ³	17.0	19.1	22.3	180
Carbon Monoxide (CO)*	IS:5182 (P-10) 2006 RA 2014	mg/m ³	0.9	1.2	1.4	04
Lead (Pb)	IS:5182 (P-22) 2004 RA 2014	µg/m ³	ND (DL 0.02)	ND (DL 0.02)	ND (DL 0.02)	01
Nickel (Ni)*	SOP No. YBAEEL/SOP/AIR/01	ng/m ³	ND (DL 8.3)	ND (DL 8.3)	ND (DL 8.3)	20
Arsenic (As)*	SOP No. YBAEEL/SOP/AIR/01	ng/m ³	ND (DL 1.0)	ND (DL 1.0)	ND (DL 1.0)	06
Benzene (C ₆ H ₆)*	IS:5182 (P-11) 2006 RA 2017	µg/m ³	ND (DL 0.06)	ND (DL 1.0)	ND (DL 1.0)	05
Benzo (a) pyrene (BaP)* Particulate Phase Only	IS:5182 (P-12) 2004 RA 2017	ng/m ³	ND (DL 0.2)	ND (DL 0.2)	ND (DL 0.2)	01

****End of Report****

Remarks	Sample Complies With Prescribe Standards.	
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,	
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Adhunik
GROUP OF INDUSTRIES

ADHUNIK POWER & NATURAL RESOURCES LIMITED

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Adityapur - Kandra Road, Saraikela - Kharsawan, PIN - 832402 Jharkhand
Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440

CIN - U40101WB2005PLC102935

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

Office Order

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

Roles & Responsibility of Environment Cell

Following the broad scope of the Cell

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

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

Annexure I:

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

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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,
Adiyapur - Kandra Road, Saraikela - Kharsawan, PIN - 832402 Jharkhand
Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC102935

05.08.2016

Annexure I

Responsibilities of the members of the environment management cell

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

Sr. Manager (HR)

CORPORATE OFFICE : "LANSDOWNE TOWER", 2nd Floor, 2/1A, Sarat Bose Road, Kolkata - 700 020
Ph : +91 - 33 - 30517100 / 7200 / 7300 • Fax : +91 - 33 - 22890285

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



ADHUNIK POWER & NATURAL RESOURCES LTD.

(Formerly Adhunik Thermal Energy Limited)

Office : Village Padampur, Behind PGCIL Substation, Adityapur, Kandra Road, P.O: Kandra
Seraikela-Kharsawan, Jharkhand-832 402 P PHONE : 0657 6628400 P FAX : 0657 6628440
Website : www.adhunikgroup.com

Ref: MOE&F, RNC/HYC/RA/251219/01

Dated: 20.12.2019

To,

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

Sub:- Submission of Half yearly compliance status report (Unit I) for the period - April 2019 to September 2019,-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 2019 to September 2019.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

(Authorized Signatory)

Encl: As Above

Copy to:

- 4) Central Pollution Control Board, Kolkata
- 5) Member Secretary, Jharkhand State Pollution Control Board, Jharkhand
- 6) Regional Officer, JSPCB, Jamshedpur

Received
28-12-19

RP
Bachin
27/12/19

Received
Myadan
27/12/19

Regd. Office : 14, Netaji Subhas Road, II-Floor, Kolkata - 700 001, Phone : 2243-4355, 2242-8651

Works: Padampur, Seraikela, Kharswan, Jharkhand
CIN U40101WB2005PLC102935



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Website : www.adhunikgroup.com

Ref No APNRL/JSPCB/ES/2018-19/01

Date: 20th Sep 2019

The Member Secretary
Jharkhand Pollution Control Board
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 2018-19.

This is for your kind information & record please.

Thanking You

Your's faithfully

Ravinder Aggarwal
(Head-Environment)

Encl: As mentioned above

CC: 1. The Regional Office(ECZ)

Ministry of Environment & Forest & Climate Change,
Bungalow No. A-2, Shyamali Colony, Ranchi-834002

2. The Regional Officer

Jharkhand Pollution Control Board
Jamshedpur, Jharkhand



