

ADHUNIK POWER & NATURAL RESOURCES LIMITED

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

Ref: MOE&F, RNC/HYC/KKJ/281123/02

Dated: 28.11.2023

To.

Regional Office (ECZ), Ministry of Environment, Forest and Climate Change, 2nd Floor, Jharkhand State Housing Board (HQ) Harmu Chowk, Ranchi, Jharkhand-834002

Sub:- Submission of Half yearly compliance status report (Unit II) for the period - April 2023 to September 2023 -Reg.

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

.Sir,

With reference to the above referred Environmental Clearance, we are pleased to submit herewith the half yearly compliance status report (Unit II) for the period of April 2023 to September 2023.

This is for your reference and record, please.

Thanking you.

For Adhunik Power & Natural resources Limited

(Authorized Signatory)

Encl: As Above

Copy to:

1. Central Pollution Control Board, Kolkata

2. Member Secretary, Jharkhand State Pollution Control Board, Jharkhand

EUZS43ZS8//IN [VR:6974234523877 SP KANDRA SO SERAIKELAKHARSAWAN Counter No:1,30/11/2023.11:25 To: THE REGIONAL DIRECTOR, CPC PIN:700107. Madurdaha SO From: KAMLESH KUMAR, ADHUNIK POWER ¥t:290oms Amt:70.80 (Cash) Tax:10.80 <Track on www.indiapost.gov.in> (Dial 18002666868) (Wear Masks, Stay Safe)



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

: www.adhunikpower.com

Website

REPORT

ENVIRONMENTAL COMPLIANCE STATUS REPORT FOR EXPANSION OF 1X270 MW COAL BASED POWER PLANT

(Unit II)



APRIL 2023 - SEPTEMBER 2023

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

Adhunik Power & Natural Resources Limited Vill: Padampur, Behind PGCIL Substation, Kandra Chouka Road, Saraikela-Kharsawan, Jharkhand Environmental Clearance Letter No: J13012/8/2009-IA .II (T) dtd 9th May 2011. Period Of Compliances: April 2023 to September 2023 SI No **EC Conditions** Status as on 30th September 2023 A. Specific Conditions: Environmental clearance for the proposed Noted expansion shall be applicable only for addition of 1x270 MW out of proposed addition of 3x270. However at a later stage when firm coal linkage for second and third units of 270 MW are also available, the project proponent may request the Ministry for inclusion of second and third units i.e. 2x270 MW, which the Ministry shall consider appropriately. The Ministry had issued a draft Notification As per notification date 29th September 2012 project on 30th September, 2011 vide S.O. 691(E) boundary are beyond the stipulated distance from under the Environment (Protection) Act, the boundary of the protected area of Dalma 1986 notifying the areas upto 5 km from the Wildlife Sanctuary in the State of Jharkhand as the boundary of the protected area of Dalma Eco-sensitive Zone. Notification regarding nearest Wildlife Sanctuary in the State of Jharkhand distance from Dalma wildlife sanctuary enclosed as as the Eco-sensitive Zone. The necessity of Annexure I. Complied obtaining environmental clearance from the National Board for Wild life would arise only if the proposed project area falls within the boundary of the finally notified eco-sensitive zone. Wildlife conservation plan shall The Wild Life Management Plan (WLMP) has be implemented during the development of prepared already been approved by PCCF, Ranchi on project itself and status the of May'10.2010.Complied implementation shall be submitted to the Ministry from time to time. Vision document specifying prospective plan Vision document report has submitted at MoEF on for the site shall be formulated and 30th Dec 2011. Complied submitted to the Ministry within six months. Possibility for harnessing solar power within Installation of solar light system in all vulnerable area are completed. the premises of the plant (particularly at available roof tops) shall be examined and Education of status of implementation shall submitted. Transport of coal shall be by rail only. The As per the Environment (Protection) Amendment project proponent shall accordingly take up Rules, 2020 dated 21 May 2020, Transport of coal by the matter with the Railways. Status of covered trucks, has been permitted. implementation shall be submitted to the Regional Office of the Ministry from time to time. A study shall be undertaken by Water sustainability report has been prepared by IIT

Kharagpur. Report was already submitted to MoEF

BBS dated 11.11.11. Complied

ii.

iii.

iv.

٧.

vi.

vii.

months.

organization of repute such as RIT,

Jamshedpur on source sustainability of

water, based on the data of the source of water (Subarnarekha River) for the last 50 years and a report submitted within six

viii.	Water usage shall be restricted to 30 MCM.	Complied.
ix.	The project proponent shall seriously undertake rain water harvesting measures and shall develop water storage capacity for a larger period not less than 30 days storage before commissioning of the plant. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	The Rain water harvesting report has already been submitted and approved from CGWA, Ranchi. 13 no Rain water harvesting structures has been constructed in accordance with the approved rain water harvesting plan. Complied
х.	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponents expenses in consultation with the state govt.	Degenerated pond has been renovated as per request from local people/Gram Panchayat .
xi.	Hydrogeology of the area shall be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	Hydrogeology study is in process and shall be submitted shortly. Regular monitoring of ground water quality in and around ash pond area including heavy metals is being carried out periodically. Ground water analysis report of upstream & Downstream of Ash pond in compared with baseline data for the month of September 2023 are enclosed as Annexure II.
xii.	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	Lean season data has already submitted To MoEF BBS on 19th aug 2011. Complied
xiii.	No ground water shall be extracted for use in operation of the power plant even in lean season.	Ground water has not extracted for operation of the Power Plant.
xiv.	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.	Natural drainage system has not been disturbed.
xv.	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.	We are regular in touch with State Government, if any suggestion will received from State Government, we shall adhere as per guidelines and same shall be inform to your good office.
xvi.	COC of 5.0 shall be adopted.	COC 5.0 has been considered for cooling tower design.
xvii.	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data	Regular monitoring of ground water in and around ash pond area including heavy metals is being carried out & report submitted to MoEF. Ground water analysis report of upstream & Downstream of Ash pond compared with baseline data for the month of September 2023 are enclosed as Annexure II. Regular monitoring of ground water level are

ê,

xxvi.	Fly ash shall be collected in dry form and	02 No Silos has Constructed to storage of fly ash.
Anvii	storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the	Monitoring of mercury and other heavy metals (As, Hg, Cr, Pd etc.) in the bottom ash and also in the
	ash pond in the form of slurry form. Mercury	effluents emanating from the ash pond is being
	and other heavy metals (As,Hg, Cr, Pb etc.) will be monitored in the bottom ash as also	done periodically. Bottom ash analysis report &
	in the effluents emanating from the existing	effluent analysis report of ash pond For the month of September 2023 are enclosed as Annexure VII &
	ash pond. No ash shall be disposed off in low	Annexure VIII respectively.
	lying area.	2.
xxvii.	Ash pond shall be lined with HDPE/LDPE	Complied.
	lining or any other suitable impermeable	
	media such that no leachate takes place at	
	any point of time. Adequate safety	
	measures shall also be implemented to	
	protect the ash dyke from getting breached.	
xxviii.	For disposal of Bottom Ash in abandoned	Not Applicable.
	mines (if proposed to be undertaken) shall	
	be done after obtaining due permission from DGMS and after ensuring that the	,
	bottom and sides of the mined out areas are	
	adequately lined with clay before Bottom	21
	Ash is filled up. The project proponent shall	d'
	inform the State Pollution Control Board	
	well in advance before undertaking the	
	activity	
xxix.	Sulphur and ash contents in the coal to be	The Sulphur content in used coal conforms the
	used in the project shall not exceed 0.6 %	limits. As per the Environment (Protection)
	and 34 % respectively at any given time. In case of variation of coal quality at any point	Amendment Rules, 2020 dated 21 May 2020, Use of
	of time fresh reference shall be made to	coal by Thermal Power Plants, without stipulations as regards ash content or distance shall be
	MOEF for suitable amendments to	permitted.
	environmental clearance condition	permitted.
	wherever necessary.	
xxx.	Green Belt consisting of 3 tiers of	A thick green belt of adequate width is being
	plantations of native species around plant	developed.68123 nos. (Area covered-30.9 Hac) of
*	and at least 75 m width shall be raised. The	plantation has been completed in and outside along
	density of tree shall not less than 2500 per	the periphery of the power plant to arrest any dust
	ha and survival rate not less than 80 %.	emissions and help in attenuation of noise. Total Survival rate of Plant are 85.6 %. Name of Plant
	3	Species- Neem, Seesam, Mango, Jamun etc.
xxxi.	Over and above the green belt, as carbon	Letter has been submitted to Forest
	sink, social forestry shall be carried out in	Department for guidance on implementation of
	close consultation with the Forests	social forestry.
	Department. The project proponent shall	,
	accordingly identify blocks of land /	
	degraded forests and shall undertake	
	regeneration of degraded forests at a large	
	scale. In pursuance to this the project	
	proponent shall formulate time bound	
	action plan along with financial allocation and shall submit status of implementation to	
	the Ministry within six months.	
	The state of the s	

۷

, T

xxxii.	At least three nearest village shall be	
	adopted and basic amenities like	
	development of roads, drinking water	950
k	supply, primary health centre, primary	
	school etc shall be developed in co-	
	ordination with the district administration.	villages
		d. Pindrabera
		e. Chotahariharpur
		f. Ramjivanpur
		g. Bikanipur etc.
		Details of CSR activity enclosed as Annexure IX.
xxxiii.	The project proponent shall also adequately	Details of CSR activity enclosed as Annexure IX.
	contribute in the development of the	
	neighboring villages. Special package with	
	implementation schedule for providing	
	potable drinking water supply in the nearby	
	villages and schools shall be undertaken in a time bound manner.	
, and in		
xxxiv.	A time bound implementation of the CSR shall be formulated within six months and	
	submitted to the Ministry. CSR schemes	List of local employed youth enclosed as Annexure
	shall be undertaken based on need	X. Complied
	assessment in and around the villages within	
	5 km of the site and in constant consultation	
	with the village Panchayat and the District	
	Administration. As part of CSR, prior	
	identification of local employable youth and	,
	eventual employment in the project after	
	imparting relevant training shall be also	p.
	undertaken.	
xxxv.	For the tribal families (if any) living in the	CSR activities are being carried out in the
	area within 5.0 Km of site, affected directly	surrounding villages keeping in mind the upliftment
	or indirectly by the proposed project,	
	specific schemes for upliftment of their	IX .
*	sustainable livelihood shall be prepared with	
	time bound implementation and in-built	
	monitoring programme. The status of	
	implementation shall be submitted to the	V V 200 200 200 200 200 200 200 200 200
	Regional Office of the Ministry from time to	
	time.	
xxxvi.	An amount of Rs 23.70 Crores shall be	We have submitted copy of capital cost & year wise
	earmarked as one time capital cost for CSR	recurring expenditure on CSR activities to MoEF
	programme as committed by the project	&CC, Ranchi Office on 05.12.2018.
	proponent. Subsequently a recurring	Complied.
	expenditure of Rs 4.74 Crores per annum	
	shall be earmarked as recurring expenditure	
	for CSR activities. Details of the activities to	
	be undertaken shall be submitted within six	
	month along with road map for	
	implementation.	
xxxvii	It shall be ensured that in-built monitoring	All CSR activities are monitored on weekly and
	mechanism for the schemes identified is in	monthly basis.
	place and annual social audit shall be got	We have conducted social audit through renowned
	done from the nearest government institute	organization who are well aware about Social Audit
	of repute in the region. The project	in Jharkhand region.
	proponent shall also submit the status of	Copy of Social audit shall be submitted shortly.
	implementation of the scheme from time to time	William Barrell
	unic	

		The state of the s
	2	
B. G	eneral Conditions:	-
i.	The treated effluents conforming to the prescribed standards only shall be recirculated and reused within the plant. Arrangements shall be made that effluents and storm water do not do not get mixed.	Treated effluent analysis report of ETP from For the month of September 2023 are enclosed as Annexure
	*-	provided to channel storm water generated onsite into rain water harvesting structures constructed in accordance with the approved rain water harvesting plan.
ii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation	STP 60 KI capacity (03 No) has installed within plant premises to treat sewage waste. Photographs enclosed as Annexure XII.
III.	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in 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 the Regional Office of the Ministry.	safety measures viz. fire hydrants, water sprinklers
iv.	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Approval received on dated 24/02/2022. License No. P/HQ/JH/15/1065 (P257355), valid upto 31.12.2026 for LDO storage installation (under Petroleum Class "C") for operations. Copy of Approval are enclosed as Annexure XIII. APNRL is using liquid fuel with sulfur content variation between 0.80 -1.5% which is provided by HPCL. Copy of Test report are enclosed as Annexure XIII(a) Emergency Response Plan (ERP) has prepared as part of the project ESMS to cater to potential
v.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	emergencies/risks identified. Plant is in operational condition however A first aid center comprising with necessary medical facilities is made available onsite to provide emergency medical aid to both contract workers and company staff. Complied.
vi.	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dBA from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs 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 September 2023 are enclosed As Annexure XIV.

	vii.	Regular monitoring of ambient air ground level concentration of SO ₂ , NOx, PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If a any stage these levels are found to exceed the prescribed limits, necessary contromeasures 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 the Regional Office of this Ministry. The data shall also be put on the website of the company.	accredited Laboratory for the month of September 2023 are enclosed As Annexure XV. Review of air quality monitoring results revealed compliance to NAAQS. Realtime data of CAAQMS has been uploaded at CPCB & JSPCB website.
	viii.	Provision shall be made for the housing of construction labor (as applicable) 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 structures to be removed after the completion of the project.	coming from nearby villages. Complied
	ix.	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 environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied
5-000	x.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	A copy of EC has been submitted in Gram Panchayat & DC office and copy of Environment Clearance has been uploaded on company website.
		An Environmental Cell comprising of at least one expert in environmental science / engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization and he shall be held responsible for implementation of environmental regulations and social impact improvement/mitigation measures.	A Environmental Management Cell consist high qualified environmental professionals are being operational onsite to ensure effective implementation of specific EMPs. Organization chart of Environmental Management Cell enclosed as Annexure XVI.

xii. The proponent shall upload the status of The updated compliance status of the stipulated EC compliance of the stipulated environmental conditions along with monitored data has been clearance conditions, including results of uploaded on the company website. The monitoring monitored data on their website and shall data (SPM, RSPM, SO2, NOx) for both ambient air update the same periodically. It shall quality and chimney emissions is being displayed at simultaneously be sent to the Regional the main gate of the company. Office of MOEF, the respective Zonal Office Compliance status of the stipulated EC conditions has of CPCB and the SPCB. The criteria pollutant been uploaded on company website and hard copy of levels namely; SPM, RSPM (PM2.5 & PM10), same has been submitted for the period of April 2022 SO₂, NO_x (ambient levels as well as stack to September 2022 in office of MoEF, Ranchi & CPCB emissions) shall be displayed at a convenient office, Kolkata along with monitored data. location near the main gate of the company in the public domain. xiii. The environment statement for each The last environmental statement for financial year financial year ending 31st September in (2022-23) in Form V has submitted to JSPCB dated 20th Sep 2023. Acknowledgement copy of same Form-V as is mandated to be submitted by the project proponent to the concerned attached as Annexure XVII. State Pollution Control Board as prescribed under the Environment (Protection) Rules, Environment Statement (2022-23) has been uploaded 1986, as amended subsequently, shall also on company website. be put on the website of the company along with the status of compliance environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail. xiv. The project proponent shall submit six Last six monthly reports for the project along with monthly reports on the status of the environmental monitoring data submitted to MoEF implementation of the stipulated Ranchi office vide letter environmental safeguards to the Ministry of MOE&F,RNC/HYC/KKJ/29523/02 ,dated 29TH May Environment and Forests, its Regional Office. 2023. Acknowledgement copy of same attached as Central Pollution Control Board and State Annexure XVIII. Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail the Regional Office, Ministry **Environment and Forests** XV. Regional Office of the Ministry A complete set of documents including Environment & Forests will monitor the Impact Assessment Report and Environmental implementation of the stipulated conditions. Environment Management Plan along with the A complete set of documents including additional information already submitted to the Environmental Impact Assessment Report Board. and Environment Management Plan along The updated compliance status of the stipulated EC with the additional information submitted conditions along with monitored data has been from time to time shall be forwarded to the uploaded on the company website. The monitoring Regional Office for their use during data (SPM, RSPM, SO2, NOx) for both ambient air monitoring. Project proponent will up-load quality and chimney emissions is being displayed at the compliance status in their website and the main gate of the company. up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO_x (from stack & ambient air) shall be displayed at the main gate of the power plant.

xvi.	Separate funds shall be allocated for	, promise seem made by the
	implementation of environmental	
	protection measures along with item-wise	
	break-up. These 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.	
xvii.	The project authorities shall inform the	Complied
	Regional Office as well as the Ministry	
	regarding the date of financial closure and	
	final approval of the project by the	
	concerned authorities and the dates of start	
	of land development work and	
	commissioning of plant	
xviii.	Full cooperation shall be extended to the	We ensure.
	Scientists/Officers from the Ministry /	Tre crisure.
	Regional Office of the Ministry at Bangalore	
	/ CPCB/ SPCB who would be monitoring the	
	compliance of environmental status	
	manufacture and an inventor status	

कार्यालय:-प्रधान मुख्य वन संरक्षक झारखण्ड, रॉची।

पत्रांक:-19एम01(5)29/2008 2574 दिनांक:-23.7.09

सचिव,

न एवं पर्यावरण विभाग,

. झारखण्ड सरकार, रॉची ।

मैसर्स आधुनिक थर्मल एनर्जी लिमिटेड के कान्ड्रा पदम्पुर, श्री रामपुर, रामचन्द्रपुर मौजा, जिला—सरायकेला—खरसांवा में स्थापित किये जाने वाले थर्मल पावर प्रोजेक्ट के लिए पर्यावरणीय स्वीकृति के संबंध में।

विभागीय पत्रांक-308, दिनांक-04.02.09

उपर्युक्त विषयक संदर्भ में सूचित करना है कि प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची ने अपने पत्रांक 463, दिनांक-02.07. 2009 (छायाप्रति संलग्न) द्वारा संबंधित विषय पर प्रतिवेदन/मंतव्य समर्पित किया है। उक्त प्रतिवेदन एवं उपलब्ध अभिलेखों के आधार पर प्रस्तावित परियोजना स्थल के संबंध में स्थिति निम्नवत् है :-

- विषयक थर्मल पावर प्रोजेक्ट काण्ड्रा पदमपुर, श्रीरामपुर, रामचन्द्रपुर मौजा की गैर-वन भूमि पर स्थापित किये जाने का प्रस्ताव है।
- 2. उपरोक्त पावर प्रोजेक्ट दलमा वन्यप्राणी आश्रयणी की निकटतम सीमा से लगभग 7.5 कि0मी0 दूर स्थापित होगा। प्रस्तावित क्षेत्र की 10 कि0मी0 त्रिज्या के अंदर अवस्थित वन भूमि सिंहभूम गज आरक्ष्य का भाग है।
- 3. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची के द्वारा पावर प्रोजेक्ट के लिए प्रस्तावित स्थल को प्रस्तावित इको—सेंसिटिव जोन से सटा हुआ बताया गया है, जबिक दलमा वन्यप्राणी आश्रयणी के लिए प्रस्तावित इको—सेंसिटिव जोन से संबंधित जो प्रस्ताव राज्य सरकार को भेजा गया है उसके अनुसार प्रस्तावित स्थल प्रस्तावित इको—सेंसिटिव जोन की निकटतम सीमा से लगभग 2.5 कि०मी० दूर अवस्थित है। इस क्रम में अनुलग्नक— 1 पर दो प्रतियों में नक्शा संलग्न है।
- 4. पावर प्रोजेक्ट के लिए प्रस्तावित स्थल से 8 से 10 कि0मी0 की दूरी पर दलमा—रूगाई गज—कोरीडोर एवं दलमा—चंडिल गज—कोरीडोर अवस्थित है। इस क्षेत्र के पास एक अन्य गज—कोरीडोर चांडिल—माथा कोरीडोर भी है, जो प्रस्तावित स्थल से 10 कि0मी0 से अधिक दूरी वर अवस्थित है। इसके अतिरिक्त कोई अन्य हाथी कोरीडोर प्रस्तावित

Mr.

Q.

समीक्षात्मक टिप्पणी अंकित करते हुए उनकी अनुशंसा से सहमित व्यक्त नहीं की है, जो उपरोक्त कंडिकाओं में उलेखित तथ्यों एवं संलग्नक मानचित्रों पर आधारित है।प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची, वन संरक्षक के उपर्युक्त मंतब्य से सहमत हैं।

प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची द्वारा अग्रलिखित शर्त्त पर संबंधित परियोजना हेतु एन०ओ०सी० निर्गत करने की अनुशंसा की गई है कि EIA के ToR की शर्त्त V के आलोक में प्रयोक्ता अभिकरण को इस आशय की वचनबद्धता देनी होगी कि प्रयोक्ता अभिकरण वन्य प्राणी विशेषज्ञ की मदद से Wildlife Mitigation and Conservation Plan उक्त क्षेत्र विशेष हेतु तैयार करा कर EIA मे शामिल करेंगे और उक्त योजना का कार्यान्वयन वन विभाग के माध्यम से प्रयोक्ता अभिकरण की लागत पर किया जायेगा।

प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची के उपर्युक्त मंतव्य से अद्योहस्ताक्षरी सहमत हैं।

अनुरोध है कि विषयगत पर्यावरणीय स्वीकृति पर अग्रतर कार्यवाई करने की कृपा की जाय।

अनु0-यथोक्त।

विश्वासभाजन,

प्रधान मुख्य वन संरक्षक, झारखण्ड, रांची।

219

ľ





For Environmental Management Jharkhand State Pollution Control Board, JSPCB

Accredited by

Certified By

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



Test Report

ULR No.:	T	C	1	1	5	11	5 :	3	() - 0	10	In	10	1	2	15	10
Discipline: Cl	hemical				,	Group	: Wat			2 10	Su	h-Gro	un: G	round	3 Water	12	9
Report Issue	Date: 3	0-09-2	2023			1			oct	Report							-
Sample ID: 2						W.				ole Desc							
Challan No./				57	-	7 5	V project			an Date							
Issued to:	-			133			TE		- Iuii	an Date	/1.0.	Jate	00-12	2-2022			
	tru Dou	vor Di	ant	JOIL	010,	KANDR	M-097	1	usto	omer Re	prese	ntativ	re: Ka	mlesh	Jha		
									No. in pre-					11110011	ona		0.00
Type of Indus Sample Draw								S	amn	ling Dat	P. 73-1	10-20	72				
Sample Draw	vn by: IE	М Те	am	thod	3025	Part-01		S	amp	ling Dat	e: 23-0	09-20	23				
Sample Draw Protocol: CPC	v n by: IE B Guide	M Te line &	am IS Me			Part-01		S	amp	ling Dat	:e: 23-(09-20:	23				
Sample Draw Protocol: CPC Sampling Loc	vn by: IE B Guide ation: SI	EM Te line & HRIRA	am IS Me MPUR	VILLA	AGE		R							/ D + N	lorth to	South	
Sample Draw	vn by: IE CB Guide ation: SI ological	Ine & Ine & IRIRA Inforn	am IS Me MPUR nation	VILLA	AGE Tem p			н. (%): 6	58	W.C.:	Partly .	Sunny	N.	/. D. : N	orth to	South	1

SI.	Tested Parameter	Unit	Method No.	L	imit		
No.	The second secon		method ivo.	Acceptable	Permissible	Results	
1.	pH value at 25°C		IS 3025 (Part-11)	6.5 - 8.5	No Relaxation	7.08	
2.	Turbidity	NTU	IS:3025 (Part-10)	1	5	4.1	
3.	Colour	Hazen	IS 3025 (Part-04)	5	15	5.0	
4.	Odour		IS:3025 (Part-05)	Agreeable	Agreeable	Unobjectionable	
5.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	500	2000	402.0	
6.	Calcium (as Ca+2)	mg/l	IS 3025 (Part-40)	75	200	56.89	
7.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part-23)	200	600	198.0	
8.	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	200	600	146.0	
9.	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part-34)	0.5	No Relaxation	BDL(MDL-0.1)	
10.	Chloride (as CI-)	mg/l	IS:3025 (Part-32)	250	1000	61.48	
11.	Free Residual Chlorine	mg/l	IS:3025 (Part-26)	0.2	1.0	BDL(MDL-0.03)	
12.	Sulphate (as SO ₄)	mg/l	IS:3025 (Part-24)	200	400	25.67	
13.	Magnesium (as Mg)	mg/l	APHA 3500	30	100	BDL(MDL-1.0)	
14.	Sodium (as Na)	mg/l	IS 3025 (Part-45)	7		24.21	
15.	Potassium (as K)	mg/l	IS 3025 (Part-45)	<u>Balleria de la la</u>		5.36	

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

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Quality Checked by	Authorized Signatory
Shappage	
(Shreya Sonal)	(Dr. S. C. Jain)
Dy. Quality Manager	Director
	Shreya Sonal)





Institute for Environmental Management Accredited by | Tharkhand 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	1	3	3	1
Discipline: Chemical Group: Residues and Contami								minar	ninants in Water Sub-Group: Trace Metals elements									
Report Issue Date: 30-09-2023									Test R	eport			303200					
Sample ID: 2	30923RC	0200	1			_ %	ų ^r						round \					
Challan No./	P.O. No.	: 3030	00064	57	1.1			Maria I	Challa	n Dat	e/P.	O. Dat	e.: 06-1	2-20	22			
	DHUNIA).		in the						
V	LL PAC	MPL	JR, P					3240	2									
VI Type of Indu	LL PAC stry: Pov	Ver Pla	JR, P					3240	2 Custo	mer F			itive: K	amle	sh Jha	a		
Type of Indu Sample Drav	LL PAD stry: Pov vn by: IE	ompu ver Pla M Te	JR, P ant am	GCIL	S/S,			3240	2	mer F				amle	sh Jha	а		
Type of Indus Sample Draw Protocol: IS N	LL PAD stry: Pov vn by: IE Method 8	MPU ver Pla M Te & CPC	JR, P ant am B Guid	GCIL deline	S/S,			3240	2 Custo	mer F				amle	sh Jha	a		
Type of Indu Sample Drav	LL PAD stry: Pov vn by: IE Method 8	MPU ver Pla M Te & CPC	JR, P ant am B Guid	GCIL deline	S/S,			3240	2 Custo	mer F				amle	sh Jha	a		
Type of Indus Sample Draw Protocol: IS N	LL PAD stry: Pow vn by: IE Method & ation: Sh	Ver Plant Pl	JR, Pant ant am B Guid MPUI	GCIL deline	S/S,	KANDI	RA-8	3240	2 Custo	mer F ing Da	ate:	23-09-				a : North	to So	uth

----Test Result----

SI.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Copper	mg/l	APHA 3111 B.2017	0.05 - 1.5	<0.01
2.	Chromium	mg/l	APHA 3111 B.2017	0.05 - No Relaxation	BDL (MDL- 0.005)
3.	Lead	mg/l	APHA 3111 B.2017	0.01 - No Relaxation	<0.01
4.	Zinc	mg/l	APHA 3111 B.2017	05 - 15	0.32
5.	Nickel	mg/l	APHA 3111 B.2017	0.3 - No Relaxation	BDL (MDL- 0.03)
6.	Mercury	mg/l	APHA 3111 C.2017	0.001 - No Relaxation	BDL (MDL - 0.008
7.	Total Arsenic	mg/l	APHA 3111 C.2017	0.01 - No Relaxation	BDL (MDL - 0.002)
8.	Manganese	mg/l	APHA 3111 B.2017	0.1 - 0.3	BDL (MDL - 0.08)

----End Report----

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

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory	,
The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD.	No.	
3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shypertill State of the Shypertill Shypertil	-
6. In case of feedback/ complaints, please send an email at gm.iemeco@gmail.com	(Shreya Sonal) (Dr./S. C. Jain)	
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director	





Institute for Environmental Management

Accredited by Jharkhand State Pollution Control Board, JSPCB

National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



Test Report

ULR No.:	T	C	1	1	5	1	5	2	3	0	0	n	0	10	14	12	Ta	7.
Discipline: Ch	emical		1			Gro	up: W	later		10	10	C		0	11	3	3	0
Report Issue	Date: 30	2-09-2	023			1 0.0	-p. v	deci	To	a4 D						Wate	r	
Sample ID: 23											port N					?		
Challan No./I							بب	-			Descr							
Issued to:	.O. NO.	: 3030	00064	5/			1	5.2	Ch	allan	Date/	P.O. [Date.:	06-12	-2022			
VI	HUNIF	MPL	IR, P	& NA	TUR S/S,	AL RI	ESOI RA-	JRCE 83240	S LTI	D.	Í				*:			
VI	LL PAL	MPL	IR, P	& NA GCIL	TUR S/S,	AL RI	ESOI RA-	JRCE 83240	2		i y							
VI Type of Indus	LL PAE try: Pov	MPL ver Pla	IR, P	& NA GCIL	TUR S/S,	AL RI	ESOI RA-	JRCE 83240	2 Cu	stom	er Rej				mlesh	ı Jha		
VI Type of Indus Sample Draw	LL PAE try: Pov n by: IE	ompu ver Pla M Te	IR, P ant am	GCIL	S/S, I	KAND	RA-	JRCE 83240	2 Cu	stom	er Rej				mlesh) Jha		
VII Type of Indus Sample Draw Protocol: CPC	LL PAE try: Pov n by: IE B Guide	Ver Pla M Te Iine &	IR, Pant ant am IS Me	GCIL:	S/S, 1	KAND	RA-	JRCE 83240	2 Cu	stom					mlesh	ı Jha		
VII Type of Indus Sample Draw Protocol: CPC Sampling Loca	LL PAE try: Pow n by: IE B Guide ation: Pa	ompt ver Pla M Te line & ADAM	IR, P ant am IS Ma PUR Y	ethod	S/S, 3025	Part-0)RA-1	URCE 83240	2 Cu	stom					mlesh	Jha		
VII Type of Indus Sample Draw Protocol: CPC	try: Pov n by: IE B Guide ation: Pological	Ver Plant Pl	IR, Pant ant am IS Ma PUR V	ethod /ILLAG	S/S, 3025	Part-0)RA-1	83240	2 Cu	stom nplin		23-0)9-202	23.		Jha Jorth to	Sout	

 est	Kes	u	t
-	-	-	-

SI.	Tested Parameter	Unit	Method No.	HELL - L	imit	Results	
No.			wethou ivo.	Acceptable	Permissible		
1.	pH value at 25°C		IS 3025 (Part-11)	6.5 - 8.5	No Relaxation	7.11	
2.	Turbidity	NTU	IS:3025 (Part-10)	1	5	430	
3.	Colour	Hazen	IS 3025 (Part-04)	5	15		
4.	Odour	120	IS:3025 (Part-05)	Agreeable	Agreeable	5.0	
5.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	500	2000	Unobjectionable	
6.	Calcium (as Ca+2)	mg/l	IS 3025 (Part-40)	75		326.0	
7.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part-23)	200	200 600	67.33	
8.	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	200	600	216.0	
9.	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part-34)	0.5	No Relaxation	224.0 BDL(MDL-0.1)	
10.	Chloride (as CI-)	mg/l	IS:3025 (Part-32)	250	1000	66.48	
11.	Free Residual Chlorine	mg/l	IS:3025 (Part-26)	0.2	1.0		
12.	Sulphate (as SO ₄)	mg/l	IS:3025 (Part-24)	200	400	BDL(MDL-0.03)	
13.	Magnesium (as Mg)	mg/l	APHA 3500	30	100	27.89	
14.	Sodium (as Na)	mg/l	IS 3025 (Part-45)	35.00		13.61	
15.	Potassium (as K)	mg/l	IS 3025 (Part-45)			24.21 5.36	

Env. Condition of Lab.

Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).

Abbreviation

MDL: Minimum Detection Limit, BDL: Below Detection Limit

Limit is Specified

IS 10500:2021

Remark

Sample Comply with prescribed specification.

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report.	Quality Checked by Authorized Signatory
2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only. 6. In case of feedback/ complaints, please send an email at gm lemeco@gmail.com	Shape
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	(Shreya Sonal) (Dr/S. C. Jain) Dy. Quality Manager Director





Institute for Environmental Management

Accredited by Jharkhand State Pollution Control Board, JSPCB
National Accreditation Board for Testing Leberate

National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



Test Report

ULR No.:	Ţ	C	1	1	15	1	5	2	3	0	0	0	0	10	1	13	13	12
Discipline: Ch	emical		Grou	p: Re	sidues	and C	100-010	mina			1-			0	N/atal	3	3	2
Discipline: Chemical Group: Residues and Contamin Report Issue Date: 30-09-2023									Report						s elen	nents		
Sample ID: 23								-		le Des								
Challan No./P				7						an Dat								
Issued to:									Criane	iii Dat	e/ r.C	. Date	e Uo-	12-20	22			
AD	HUNIK	POV	VER 8	NA CILS	TURA	L RE	SOU	RCE	SLT	D.								(4)
AD VIL Type of Indust	ry: Pow	MPU ver Pla	R, PG	R NA	TURA S/S, K	AL RE	SOU RA-8:	3240)2		Repre	senta	tive: ł	Kamle	sh Jh	a		4.
AD VII Type of Indust Sample Draw	L PAC try: Pow n by: IE	MPU ver Pla M Tea	R, PG int am	CILS	TURA S/S, K	AL RE	SOU RA-8:	3240)2 Custo	mer F				Kamle	sh Jha	а		4
AD VIL Type of Indust	L PAC try: Pow n by: IE	MPU ver Pla M Tea	R, PG int am	CILS	TURA S/S, K	AL RE	SOU RA-8:	3240)2 Custo					Kamle	sh Jh	a		141
AD VII Type of Indust Sample Draw	L PAC try: Pow n by: IE ethod &	ver Pla M Tea & CPCB	R, PG int am 3 Guide	eline	S/S, K	AL RE	SOU RA-8:	3240)2 Custo	mer F				Kamle	sh Jha	a		(4)
AD VIL Type of Indust Sample Draw Protocol: IS M	try: Pown by: IE ethod 8	ver Pla M Tea CPCB	R, PG int am Guide PUR VI	eline	S/S, K	AL REANDF	RA-8:	3240)2 Custo	omer R ling Da	ate: 2	3-09-2			- Q		th to S	Outh

----Test Result----

			Test Result		
SI.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Copper	mg/l	APHA 3111 B.2017	0.05 – 1.5	<0.01
2.	Chromium	mg/l	APHA 3111 B.2017	0.05 – No Relaxation	BDL (MDL- 0.005)
3.	Lead	mg/l	APHA 3111 B.2017	0.01 – No Relaxation	<0.01
4.	Zinc	mg/l	APHA 3111 B.2017	05 – 15	0.37
5.	Nickel	mg/l	APHA 3111 B.2017	0.3 - No Relaxation	BDL (MDL- 0.03)
6.	Mercury	mg/l	APHA 3111 C.2017	0.001 - No Relaxation	BDL (MDL - 0.008)
7.	Total Arsenic	mg/l	APHA 3111 C.2017	0.01 - No Relaxation	BDL (MDL - 0.002)
8.	Manganese	mg/l	APHA 3111 B.2017	0.1 - 0.3	BDL (MDL - 0.08)

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

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report.	Quality Checked by	Authorized Signatory
2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invalid appoint only.	Shyport	
In case of feedback/ complaints, please send an email at amiemeco@gmail.com On the basis of Quality Checked and Technical data	(Shreya Sonal)	(Dr./S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager	Director



Piezometer	of	Adhunik Power
, iczonictei	O1	Aununik Power

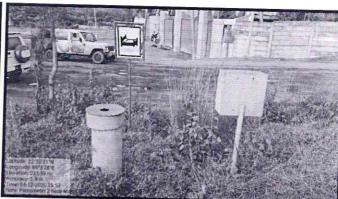
	cordinates.	22 49 50.1	WATER	! Cordinates:	22°50'21.0	86°03'27.5	Cordinates:	22°50'09.4	86°03'48.1"E
80	DATE	TIME	LEVEL (m)	DATE	TIME	WATER LEVEL (m)	DATE	TIME	WATER LEVEL (m)
	30-09-2023	23:00:00	3.65	30-09-2023	23:00:00	1.88	30-09-2023	23:00:00	0.37
	15-09-2023	01:00:00	3.37	15-09-2023	01:00:00	1.92	15-09-2023	01:00:00	0.37
	01-09-2023	00:00:00	3.42	01-09-2023	00:00:00	2.04	01-09-2023	00:00:00	0.37
	31-08-2023	23:00:00	3.44	31-08-2023	23:00:00	1.91	31-08-2023	23:00:00	0.38
	15-08-2023	22:00:00	3.44	15-08-2023	22:00:00	1.96	15-08-2023	22:00:00	0.38
	01-08-2023	21:00:00	3.42	01-08-2023	21:00:00	2.14	01-08-2023	21:00:00	0.4
	31-07-2023	20:00:00	3.41	31-07-2023	20:00:00	2.03	31-07-2023	20:00:00	0.43
	15-07-2023	19:00:00	3.37	15-07-2023	19:00:00	2.07	15-07-2023	19:00:00	0.44
	01-07-2023	18:00:00	3.49	01-07-2023	18:00:00	2.07	01-07-2023	18:00:00	0.44
	30-06-2023	17:00:00	3.31	30-06-2023	17:00:00	2.2	30-06-2023	17:00:00	0.44
	15-06-2023	16:00:00	3.32	15-06-2023	16:00:00	4.97	15-06-2023	16:00:00	0.43
	01-06-2023 31-05-2023	15:00:00	3.38	01-06-2023	15:00:00	2.07	01-06-2023	15:00:00	0.42
	15-05-2023	14:00:00	3.42	31-05-2023	14:00:00	2	31-05-2023	14:00:00	0.4
	01-05-2023	13:00:00	3.4	15-05-2023	13:00:00	2	15-05-2023	13:00:00	0.38
	30-04-2023	12:00:00	3.42	01-05-2023	12:00:00	2.01	01-05-2023	12:00:00	0.37
	15-04-2023	11:00:00	3.34	30-04-2023	11:00:00	2.02	30-04-2023	11:00:00	0.36
	01-04-2023	10:00:00	3.42	15-04-2023	10:00:00	2.24	15-04-2023	10:00:00	0.35
	71-04-2023	09:00:00	3.42	01-04-2023	09:00:00	1.82	01-04-2023	09:00:00	0.35

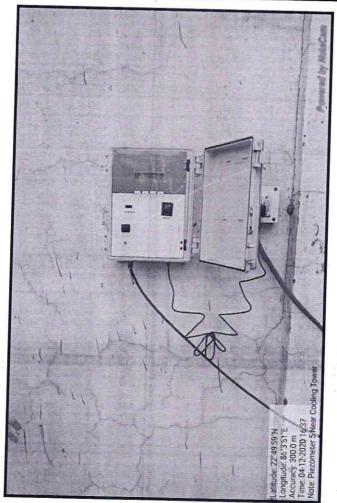
Lange



Piezometer At Plant premises









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	lo	0	0	1	3	7
Discipline: Che	mical		10%			Group:	Water		1-		Su	b-Gro		urface		r
Report Issue D	ate: 30	-09-20)23			J.		Tes	t Ren	ort No					vvale	
Sample ID: 230)923W	40300	1			7.7				escrip				the same of the sa	ivorl	-
Challan No./P.	O. No.:	30300	00645	7		7 55				ate/P					iverj	
Issued to: ADI VII I	HUNIK	POW	VER 8	NAT	UR.	AL RESO	URCE	S LTI	ο,							
ADI VILI	- PAD	MPUF	R, PG	NAT	UR.	AL RESO (ANDRA-	URCE 83240	2		* Dani	.5 		. 16	, , ,		
ADI VILI Type of Indust	- PAD y: Pow	MPUF er Plan	R, PG	NAT CILS	TUR.	AL RESO (ANDRA-	URCE 83240	2 Cus	tome	r Repi				ılesh J	ha	
ADI VILI Type of Indust Sample Drawn	- PAD y: Pow by: IE	MPUF er Plar M Tea	R, PG nt im	CILS	/S, M	KANDRA-	URCE 83240	2 Cus	tome	r Repr Date:				ilesh J	ha	
ADI VILI Type of Indust Sample Drawn Protocol: CPCB	- PAD y: Pow by: IE Guidel	MPUF er Plan M Tea ine & I	R, PG nt im IS Met	hod 3	/ S , K	KANDRA-	URCE 83240	2 Cus	tome					ilesh J	ha	
ADI VILI Type of Indust Sample Drawn	y: Pow by: IE Guidel ion: SH	MPUF er Plar M Tea ine & I IRIRAN	nt im IS Met MPUR	hod 3	025 GE	KANDRA-	83240	2 Cus	tome		23-09	-2023		nlesh J		to Cou

----Test Result----

			t Result	all A silbter	and the same of th
SI. No.	Tested Parameter	Unit	Method No.	Limit	Results
1.	pH value at 25°C		IS 3025 (Part-11)	6.5 - 8.5	7.01
2.	Turbidity	NTU	IS:3025 (Part-10)	Ø	12.3
3.	Colour	Hazen	IS 3025 (Part-04)		10.0
4.	Odour		IS:3025 (Part-05)		Agreeable
5.	Total Dissolved Solid (TDS)	mg/l	IS 3025 (Part-16)	85, 70 No.	255.0
6.	Calcium (as Ca+2)	mg/l	IS 3025 (Part-40)		39.28
_7.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part-23)		110.0
8.	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	PARIS TO CO	144.0
9.	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part-34)		BDL(MDL-0.1)
10.	Chloride	mg/l	IS 3025 (Part-32)		14.0
11.	Free Residual Chlorine	mg/l	IS:3025 (Part-26)		BDL(MDL-0.03)
12.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)		53.38
13.	Magnesium (as Mg)	mg/l	APHA 3500		11.18

----END Report----

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

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report.	Quality Checked by	Authorized Signatory
2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shapot	F
 In case of feedback/ complaints, please send an email at gm.lemeco@gmail.com 	(Shreya Sonal)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager	Director





Institute for Environmental Management Accredited by | Iharkhand 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	1	3	2	5
Discipline: C	hemical		Gro	up: R	esidue	s and C	Conta	mina	nts in	Water		Sub-G	oup: T	race	Metal.	s elem	ents	1 -
Report Issue	Date: 30)-09-2					=1					.: RN-23					101110	-
Sample ID: 2	30923RC	0300	1		- 45	1 4 5	i.	i Proje				tion: Su						
Challan No./	P.O. No.	: 3030	00064	57	a Sili							.O. Date						
	DHUNIK									D.								
V	LL PAC	MPL	JR, P					3240)2								= 1 est y (Ministration -	
V Type of Indu	LL PAC stry: Pov	MPU ver Pla	JR, Po					3240)2 Custo	omer F		resenta		Kamle	sh Jha	a		
V Type of Indu Sample Drav	ILL PAD stry: Pow vn by: IE	MPL ver Pla M Te	JR, Po ant am	GCIL	S/S, I			3240)2 Custo	omer F		resenta 23-09-2		(amle	sh Jha	3		
Type of Indu Sample Drav Protocol: IS N	ILL PAD stry: Pow vn by: IE Method &	MPU ver Pla M Te & CPC	JR, Po ant am B Guid	GCIL Ieline	S/S, I			3240)2 Custo	omer F				Kamle	sh Jha	а		
Type of Indu Sample Drav Protocol: IS N	ILL PAD stry: Pow vn by: IE Method &	MPU ver Pla M Te & CPC	JR, Po ant am B Guid	GCIL Ieline	S/S, I			3240)2 Custo	omer F				Kamle	sh Jha	a	T _i	
V Type of Indu Sample Drav	stry: Pow vn by: IE Method & ration: Sh	Ver Pla M Te & CPCI HRIRA	JR, Po ant am B Guic MPUF	deline	S/S, I		RA-8	33240)2 Custo	omer F ling D	ate:		2023				to So	uth

----Test Result----

SI.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Copper	mg/l	APHA 3111 B.2017		BDL (MDL- 0.02)
2.	Chromium	mg/l	APHA 3111 B.2017		BDL (MDL- 0.005)
3.	Lead	mg/l	APHA 3111 B.2017	Bergester	BDL (MDL- 0.07)
4.	Zinc	mg/l	APHA 3111 B.2017		BDL (MDL- 0.04)
5.	Nickel	mg/l	APHA 3111 B.2017	ARTSAT	BDL (MDL- 0.03)
6.	Mercury	mg/l	APHA 3111 C.2017		BDL (MDL - 0.0008)
7.	Total Arsenic	mg/l	APHA 3111 C.2017		BDL (MDL - 0.002)
8.	Manganese	mg/l	APHA 3111 B.2017		BDL (MDL - 0.08)

----End Report----

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

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement.	
4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only. 6. In case of feedback/ complaints, please send an email at smill:sm	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director





Institute for Environmental Management Accredited by | Jharkhand State Pollution Control Board, JSPCB



Test Report

Discipline: Biological	Group: W	ater	Sub-Group	: Surface Water
Report Issue Date: 30-09-2023	15%	Test R	eport No.: RN-230320	
Sample ID: 230923MB02001			e Description: Surface	
Challan No./P.O. No.: 3030006457	The State of the S		n Date/P.O. Date.: 06	
ADHUNIK POWER & N VILL PADMPUR, PGC	ILS/S, KANDRA-8	32402		
VILL PADMPUR, PGC Type of Industry: Power Plant	ILS/S, KANDRA-8	32402	mer Representative:	Kamlesh Jha
VILL PADMPUR, PGC Type of Industry: Power Plant Sample Drawn by: IEM Team	ILS/S, KANDRA-8	32402 Custor	mer Representative: ng Date: 23-09-2023	Kamlesh Jha
VILL PADMPUR, PGC Type of Industry: Power Plant Sample Drawn by: IEM Team	ILS/S, KANDRA-8	32402 Custor	mer Representative: ng Date: 23-09-2023	Kamlesh Jha
VILL PADMPUR, PGC Type of Industry: Power Plant Sample Drawn by: IEM Team Protocol: CPCB Guideline& IS Metho	od 3025 Part-01	32402 Custor		Kamlesh Jha
VILL PADMPUR, PGC Type of Industry: Power Plant	od 3025 Part-01	32402 Custor		Kamlesh Jha W.D.: North to South

----Test Result----

SI. No.	Tested Parameter	Unit	Method No.	Limit	Results
1.	Total Coliform	MPN/100ml	IS 1622: 1981		1015
2.	Fecal Coliform	MPN/100ml	IS 1622: 1981		200
3.	E. Coli	MPN/100ml	IS 1622: 1981		715 705

----END Report----

Env. Condition of Lab.	Laboratory is maintain area as per IS 196:1966	ing Temperature 27 5(C).	± 2oC and Relative	e Humidity 65±5 % in	all testing
Abbreviation	MDL: Minimum Detecti		w Detection Limit	CONTRACTOR OF THE CONTRACTOR O	and the second s
Limit is Specified	IS 10500 :2022	1, 1	w beteetion cinit		
Remark		7			

Tested By: Khushi

Sample Drawn By: Rajiv Kumar Singh & Team

The laboratory accepts responsibility for content of this report.	Quality Checked by Authorized Signatory
2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shaper
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr./S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director



Cassifia Castrastal III

RO ISO 45001:2018





Institute for Environmental Management Accredited by | Jharkhand State Pollution Control Board, JSPCB

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



BDL(MDL-1.0)

Test Report

Discipline: Chemical	Group: W	ater	Sub-Group: Surface Water		
Report Issue Date: 30-09-2023		Test Report No.: RN-2303200015W2			
Sample ID: 230923WA03002	4 1		ription: Surface Water (River)		
Challan No./P.O. No.: 3030006457			/P.O. Date.: 06-12-2022		
ADHUNIK POWER & VILL PADMPUR, PGC Type of Industry: Power Plant	ILS/S, KANDRA-8	32402	epresentative: Kamlesh Jha		
Sample Drawn by: IEM Team	3.45	Sampling Date: 23-09-2023			
Protocol: CPCB Guideline& IS Meth-	od 3025 Part-01	Sampling Dat	E, 23-U3-2U23		
Sampling Location: PADAMPUR VIL		THE PERSON NAMED IN			
		I by to took on I be a	. Death O		
Field Meteorological Information	A. Temp.(°C): 27	K.H. (%): 68 W.C	Parity Slippy M D : North to Couth		
	A. Temp.(°C): 27 Testing Star	R.H. (%): 68 W.C ted: 23-09-2023	:: Partly Sunny W.D.: North to South Testing Ended: 27-09-2023		

SI. No.	Tested Parameter	Unit	Method No.	Limit	Results
1.	Nitrate (as NO ₃)	mg/l	IS:3025 (Part-34)		4.17
2.	Fluoride (as F ⁻)	mg/l	APHA 4500		1.32
3.	Sulfide	mg/l	IS:3025 (Part-29)		BDL(MDI -1.0)

-FND 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	N/A

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report. 2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Quality Checked by Authorized Signatory
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr./S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director



ISO 45001:2018





Institute for Environmental Management

Accredited by

Certified By

Jharkhand State Pollution Control Board, JSPCB

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



Test Report

ULR No.:	T	C	1	1	5	1 9	2	3	To	To)	0	10	1	3	7	6
Discipline: Chemical Group: Residues and Contam						ntamir] 0					
Report Issue	Date: 30	0-09-2				1		7	Report							J CICII	701103	
Sample ID: 230923RC03002									le Des									
Challan No./	P.O. No.	: 3030	00645	7			-		an Dat	The second		-			-			
Issued to:	HUNIF	(PO)	VER	& NA	TUR	AL RES	OUR	ES LT	D.									
AI VI	LL PAC	MPU	R, PC	& NA	TUR/ S/S, k	AL RES	OUR(4-832	ES LT	D.									
Al VI Type of Indus	LL PAC stry: Pov	MPU ver Pla	R, PO	& NA	TUR/ S/S, K	AL RES	OUR(A-832	02	D. omer f	Rep	rese	ntat	ive:	Kamle	sh Jh	a		
Al Vi Type of Indus Sample Drav	LL PAD stry: Pov vn by: IE	MPU ver Pla M Te	IR, PO ant am	GCIL	S/S, K	AL RES	OUR(A-832	02 Custo				-		Kamle	sh Jh	а		
Al VI Type of Indus	LL PAD stry: Pov vn by: IE	MPU ver Pla M Te	IR, PO ant am	GCIL	S/S, K	AL RES (ANDR	OUR(A-832	02 Custo	omer F			-		Kamle	sh Jh	а		
Al Vi Type of Indus Sample Drav	LL PAE stry: Pov vn by: IE Method 8	Ver Pla EM Te	I R, PC ant am 3 Guid	eline	S/S, F	AL RES	OUR(A-832	02 Custo	omer F			-		Kamle	sh Jh	а		
Al VI Type of Indus Sample Drav Protocol: IS N	LL PAE stry: Pov vn by: IE Method & ation: Pa	Ver Pla EM Te & CPCE ADAM	IR, PO ant am B Guid PUR V	eline	S/S, M	AL RES (ANDR)	A-832	02 Custo	omer f ling D	ate:	23-0	9-2	023	Kamle			th to S	outh

----Test Result----

			1 = 2 1 1 = 2 1 1 = 2 1 1		
SI.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Copper	mg/l	APHA 3111 B.2017		BDL (MDL- 0.02)
2.	Chromium	mg/l	APHA 3111 B.2017		BDL (MDL- 0.005)
3.	Lead	mg/l	APHA 3111 B.2017	1992 F	BDL (MDL- 0.07)
4.	Zinc	mg/l	APHA 3111 B.2017	****	BDL (MDL- 0.04)
5.	Nickel	mg/l	APHA 3111 B.2017		BDL (MDL- 0.03)
6.	Mercury	mg/l	APHA 3111 C.2017		BDL (MDL - 0.0008)
7.	Total Arsenic	mg/l	APHA 3111 C.2017	14 10 20 20	BDL (MDL - 0.002)
8.	Manganese	mg/l	APHA 3111 B.2017		BDL (MDL - 0.08)

----End Report----

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

Tested By: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

hane.	0.06
J.	
ya Sonal)	(Dr. S. C. Jain)
lity Manager	Director
ıl	ity Manager





Institute for Environmental Management Accredited by | Jharkhand State Pollution Control Board, JSPCB

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



Test Report

Discipline: Chemical	Group:	Residues and Conta	minants in Water	Sub-Group: Trace Metals elements			
Report Issue Date: 30-09			Test Report No.: RN-230320001SW2				
Sample ID: 230923RC030	002	2 5		ription: Surface Wate			
Challan No./P.O. No.: 30	030006457			/P.O. Date.: 06-12-20			
VILL PADMI	PUR, PGCI	NATURAL RESOU ILS/S, KANDRA-8	32402				
The state of the s				epresentative: Kamle	esh Jha		
Type of Industry: Power	Plant		Customer Re	epresentative: Kamle	esh Jha		
Type of Industry: Power Sample Drawn by: IEM	Plant Team		Customer Re	epresentative: Kamle e: 28-03-2023	esh Jha		
Type of Industry: Power Sample Drawn by: IEM Protocol: IS Method & CF Sampling Location: PADA	Plant Team PCB Guidelin	ne	Customer Re		esh Jha		
Type of Industry: Power Sample Drawn by: IEM Protocol: IS Method & CR	Plant Team PCB Guidelin AMPUR VILL	ne	Customer Re	e: 28-03-2023	esh Jha W.D.: North to South		

----Test Result----

SI.No.	Tested Parameter	Unit	Method No.	Limits	Results
1.	Iron	mg/l	APHA 3111 B.2017		0.08

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: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Certified by

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report. 2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue	Quality Checked by Authorized Signatory
Total liability of Institute for Environmental Management will be limited to invoiced amount only. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director



ISO 45001:2018



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	1	3	1	8
Discipline: Ch	nemical					Gro	up: At	mosp	heric	Pollut	ion	1	Sub-G	roup:	Stack	Emiss	ion	
Report Issue	Date: 30	0-09-2	023				3		Te	est Re	port N	lo.: F	RN-2303					
Sample ID: 2	30923AF	0600	2		pr =====	l. 4			Sa	mple	Descr	iptio	n: Stac	k Emi	ssion	100		
Challan No./	P.O. No.	: 3030	0064	57	1						-		Date.:					
	HUNIF									D.								
AI VI	LL PAC	MPU	R, P						2		ar Da		4-6	- · //-		II. a		
AI VI Type of Indu	LL PAC stry: Po	MPU wer Pl	R, P lant						2 Cı	ustor	_		entativ		ımlesh	Jha		
AI VI Type of Indu Sample Drav	LL PAC stry: Po n by: IE	MPU wer Pl M Te	R, P lant am	GCIL	S/S, I	KAND	RA-8	3240	2 Ci	ustom amplii	_		entativ 2-09-20		ımlesh	Jha		
AI VI	LL PAE stry: Po n by: IE CB Guide	wer Pl M Te eline (R, P lant am LATS/	GCIL 80/20	S/S, I	KAND	RA-8	3240 od 11:	2 Ci	ustom amplin	ng Da	te: 2	2-09-20	23		Jha : NW	to SE	languary affici
Al VI Type of Indu Sample Drav Protocol: CP	LL PAE stry: Po n by: IE CB Guide ological	wer Please (Infor	R, P lant am LATS/ matic	80/20	S/S, I 013-14 A. Te	(AND	Metho	3240 od 11:	2 Ci Sa 255 Se H. (%	ustom amplin eries): 61	ng Da	te: 2		23 ny	W.D.	: NW		

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

SI. No.	Parameters	Test Methods	Unit	Result	Limits
1.	Flue Gas Temperature	IS 11255 (Part-3)	°K	404	
2.	Flue Gas Velocity	IS 11255 (Part-3)	m/s	34.8	
3.	Flue Gas Volumetric Flow Rate	IS 11255 (Part-3)	Nm³/hr.	1122865.1	
4.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm ³	42.1	50
5.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	mg/Nm ³	1054.9	600
6.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	mg/Nm³	412.3	450
7.	Carbon Monoxide (CO)	IS 13270:1992	% v/v	BDL(MDL-0.2)	
	1.56 9 TO 10 P 12 F 15 F	End of Repor	t		

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: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by	Authorized Signatory
The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shapara	
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report s Issued by the Director of the Organization.	Dy. Quality Manager	Director

Adhunik Power & Natural Resource Limited

FLY ASH GENERATION & UTILIZATION REPORT (2023-24)

		Ash G	enerat	ion and Utili:				Mode of Ash	7 .	
SI. No.	Months	Coal Consumed	Ash Contents of Coal (%)		Fly Ash Utilization	%age Utilization	In Making of Fly Ash Based bricks /Blocks /Tiles etc	In manufacturing of Portland Pozzolana Cement	RMC	Export of ash to other countries;
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		(10)
1	APRIL	124286	42.29	52557.94	44268.79	84.2%	188.72	37168.00	6868.00	43.86
2	MAY	129117	40.71	52569.24	44766.41	85.2%	1180.23	36464.00	7123.00	43.00
3	JUNE	168814.6	40.37	68155.20	58078.6	85.2%	3103.80	47415.00	7560.00	
4	JULY	260175	40.84	106258.4	74880.2	70.5%	8255.17	59174.71	7450.30	
5	AUG	276754.5	39.56	109489.66	68455.3	62.5%	8126.80		8243.50	
6	SEP	282140.7	42.54	120023.49	76073.7	63.4%			6426.27	
_	Total	1241287.6	41	509053.92	366522.95	75.2%		Carlos Company of the		43.86

Larle .



Institute for Environmental Managemen

Accredited by Jharkhand State Pollution Control Board, JSPCB

ISO 9001:2015 (Quality Management System)

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



Test Report

Discipline: Chemical	Group: Pollution 8	Environment	Sub-Grou	up: Soil & Sediments	
Report Issue Date: 30-09-2023		Test F	Report No.: RN-230320	0001S02	
Sample ID: 230923PE04002		Samp	le Description: Soil an	d Sediment	
Challan No./P.O. No.: 3030006457		Challa	in Date/P.O. Date.: 06	5-12-2022	
ADHUNIK POWER & VILL PADMPUR, PGO Type of Industry: Power Plant		832402	r Representative: Ka	mlash lha	
		Custome	i nepresentative, Na		
				inicon ona	
Sample Drawn by: IEM Team	od 3025 Part-01		Date: 23-09-2023	inicon ona	
Sample Drawn by: IEM Team Protocol: CPCB Guideline& IS Metho Sampling Location: Bottom Ash	od 3025 Part-01			inesii siia	
Sample Drawn by: IEM Team Protocol: CPCB Guideline& IS Metho	od 3025 Part-01 A. Temp.(°C): 27			W.D.: North to South	

----Test Result----

			1 GOC PROGUE		
SI. No.	Tested Parameters	Unit	Method No.	Limits	Results
1.	Zinc	ppm	USEPA 3050 B, APHA: 3111 B.2017	<u> </u>	0.07
2.	Copper	ppm	USEPA 3050 B, APHA: 3111 B.2017		BDL(MDL-0.02)
3.	Lead	ppm	USEPA 3050 B, APHA: 3111 B.2017		BDL(MDL-0.07)
4.	Arsenic	ppm	USEPA 3050 B, APHA: 3111 B.2017	0.2	0.09
5.	Cadmium	ppm	USEPA 3050 B, APHA: 3111 B.2017	J# 1	0.13
6.	Mercury	ppm	USEPA 3050 B, APHA: 3111 B.2017	d -2 1 1	0.08
7.	Chromium	ppm	USEPA 3050 B, APHA: 3111 B.2017		0.24
8.	Nickel	ppm	APHA 3111 B. 2017		BDL(MDL-0.03)
9.	Selenium	ppm	APHA 3111 B. 2017		0.07
10.	Unborn Carb	ppm	APHA 3111 B. 2017		2.5
11.	Iron	ppm	APHA 3111 B. 2017	3.0	9.88

----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	** EXT. 1 - XXXXX - XXXX - XXXXX - XXXX - XXXXX - XXXX - XXX - XXX - XXXX - XXXX - XXXX - XXXX - XXXX - XXX

Tested By: T. Ahmed

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report. 2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue	Quality Checked by	Authorized Signatory
Total liability of Institute for Environmental Management will be limited to involced amount only. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager	Director



RO (SO 45001:2018





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.:	C	1	1	5	1	5	2	3	n	10	0	Λ	0	1	2	1 2
Discipline: Chemical			G	oup:	Pollut	tion 8	Fnvir	onmen	+	1 0	Sul	0 Gro	1100	I I	3	2
Report Issue Date: 30	-09-202	23		Group: Pollution & Enviro					ronment Sub-Group: Waste Water Test Report No.: RN-230320001WW03							
Sample ID: 230923PE0				-	11	*										
Challan No./P.O. No.:		06457	,			77.7	7			Descri						nd)
Issued to:								Cna	iian i	Date/F	.O. Da	ate.: ()6-12-	2022		
ADHUNIK VILL PAD	MPUR	ER &	NAT	TUR/	AL RE	SOL	JRCE	S LTD								
VILL PAD Type of Industry: Pow	MPUR er Plant	, PG	CILS	rur/ 8/S, F	AL RE	SOL RA-8	33240	2		Repres	entati	ve: K	amles	sh Jha	1	
VILL PAD Type of Industry: Pow Sample Drawn by: IEI	MPUR er Plant M Team	t 1	CILS	5/S, F	KAND	RA-8	33240	2 Custon	ner R				amles	sh Jha	1	
VILL PAD Type of Industry: Pow	MPUR er Plant M Team	t 1	CILS	5/S, F	KAND	RA-8	33240	2	ner R				amles	sh Jha	ı	
VILL PAD Type of Industry: Pow Sample Drawn by: IEI Protocol: CPCB Guideli	MPUR er Plant M Team ine& IS	t n Meth	CILS	5/S, F	KAND	RA-8	33240	2 Custon	ner R				amles	sh Jha	ı	
VILL PAD Type of Industry: Pow Sample Drawn by: IEI	MPUR er Plant M Team ine& IS sh Pond	t n Meth	od 3	025 P	KAND	RA-8	33240	2 Custon	ner R		-09-20)23			orth to	

SI. No.	Tested Parameters	Unit	Method No.	Limits	Results
1.	pH value at 25°C		IS 3025 (Part-11)	5.5 to 9.0	7.65
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	65.0
3.	Chromium	mg/l	APHA 3111 B.2017	2.0	BDL (MDL - 0.005)
4.	Lead	mg/l	APHA 3111 B.2017	0.1	BDL (MDL - 0.07)
5.	Mercury	mg/l	APHA 3112 C.2017	0.01	BDL (MDL - 0.0008)
6.	Arsenic	mg/l	APHA 3114 C.2017	0.2	BDL (MDL - 0.002)

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: Amisha Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: - 1. The laboratory accepts responsibility for content of this report.	Quality Checked by	Authorized Signatory
2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to involved amount only	Shapara	
 In case of feedback/ complaints, please send an email at gm.lemeco@gmail.com 	(Shreya Sonal)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report s issued by the Director of the Organization.	Dy. Quality Manager	Director



HELF YEARLY CSR REPORT

April '2023-September'2023







ADHUNIK POWER AND NATURAL RESOURCES LIMITED

Padampur, Kandra, saraikela-Kharsawan

Adhunik Power & Natural Resource Limited (APNRL)

(Village-Padampur Block-Gamharia, District-Saraikela-Kharsawan, Jharkhand)

<u>Social performance report from April'2023 to September'2023</u>

Adhunik Power & Natural Resources Limited (APNRL), Padampur has always been at forefront of CSR. The provisions of the Companies Act, 2013 have made it imperative to institutionalize the CSR activities. The objective of your Company's CSR policy is to lay down the guiding principles for proper functioning of CSR activities to attain sustainable development of the society around the area of operations of the Company. The Company undertook various activities during the year under review in line with its CSR Policy and as prescribed in Schedule VII to the Companies Act, 2013. Apart from long term ongoing projects, the Company has supported and implemented projects under its CSR Policy in the field of Healthcare (including Preventive, Promotive & Curative), Promoting Education, Skill training, Animal Welfare, Environment & Rural development amongst others.

A report on social performance made by Adhunik Power & Natural Resources Limited (APNRL), Padampur, as a part of corporate social responsibility, during the mentioned period is here under. It is worth mentioning that APNRL had executed the community development. The focus area wise developmental activities report is as follows:

HEALTH & SANITATION

1. <u>Health & Sanitation</u>: 24 X 7 ambulance facility has been providing to the villagers of peripheral village for better treatment. Nos. of villagers' availed ambulance facilitates following months.

Status of Referral Patients										
Month	М	-	_	F	Child	dren	Total No.	Village Covered		
	IVI		M	F	TOTAL NO.	village Covered				
April'23	6	12	1	2	21					
May'23	7	22	1	4	34					
June'23	10	11	1	3	25	Badahariharpur, Srirampur, Dumra,				
July'23	8	19	1	5	33	Padampur , Kandra, Gamharia				
Aug'23	9	18	2	3	32					
Sept.'23	11	23	1	6	40					

Medical Facilities: Provide free medical treatment at Dispensary , APNRL, Padampur. Nos. of villagers availed the medical facilities following months.

Status of Patients-

Month	М	F	Childr	en	Total No.	Village Covered
		•	M F	F	TOLAI NO.	village Covered
April'23	103	86	20	27	236	
May'23	96	73	18	17	204	
June'23	90	58	29	29	206	
July'23	123	117	56	36	332	

Aug'23	167	116	47	38	368	Balidih, Badahariharpur, Srirampur,	
Sept.'23	122	90	28	31	271	Dhatkidih, Padampur ,Pindrabera, Kandra, Gamharia	

3. Village health camp: A health check-up camp was organized at village Badahariharpur on 12.4.2023

and 26.4.2023 under the CSR department of Adhunik Power. A total of 14 villagers including children were examined in the camp as well as medicines were distributed among the patients as per the requirement. Medical Officer Dr. GP Murmu gave health related information to the people during the camp. These camps ensure that people get timely health care and see a doctor even before a minor health problem becomes serious.



- **4. Drinking Water Supply:** The drinking water provided to villagers through water tanker towards meeting the need of drinking water and other related water use during their social functions. The **objectives** of supply of drinking water to the villagers were as follows:
 - i. To meet the drinking need of villagers
 - ii. To meet the needs of water related other use(s) during water scarcity situation in villages.

The detailed status of drinking water supply is as below:

S. No.	Months	Villages Covered	Gram Panch ayat/ Block	No. of Drinking Water Supply Services Provided through Water Tanker	Quantity of Supplied Water (in Liter)	Average Populatio n Covered	Purpose
1	April'23	7	4	8	40000	2000	Meeting
2	May'23	7	4	12	60000	3000	the need
3	June'23	5	2	6	30000	1500	of
4	July'23	2	1	4	20000	1000	drinking water
5	Aug'23	2	1	4	20000	1000	during
6	Sept.'23	3	3	4	20000	1000	for the villagers.

5. Planning and convergence meeting for TB free panchayat: A planning and convergence meeting

has been conducted on 27.4.2023 at Adhunik Power and Natural Resources Limited premises with various stakeholder's officers of The Union, Ranchi, MOIC & officers of Health dept., CDPO-ICDS, RRI members, Village Leaders towards TB Free Panchayat. The APNRL has taken the initiative to facilitate and support this Government of



India initiate, which has been recently quoted by Hon PM of India on World TB Day at One world summit.

6. Food distribution program: Adhunik Power is providing nutritious food basket is being given





every month to the deprived and poor residents of Gamharia block suffering from TB, due to which their diet is improving with support of Community Health Center (CHC), Gamharia, through which patients were given Moong, Jaggery, Chana, Arhar Dal, Soybean, Oatmeal, Oats, Oil, Chura. In

this program, Nirmal Das-DPM, Dr. B. K. Chaudhary-DTO and Dr. Pratima Kumari, MOIC, Potel Hansda-STS, CHC, Gamaharia were facilitated and distributed food pack. CEO Mr. Arun Kumar Mishra, Mr. Rajesh Sharma-VP-Finance Head, Mr. Amal Baidya, GM (Operation), Mr. Biraj Kumar -GM-Finance, Mr. Sanjeet Sinha-AGM-CSR provided nutritious food to the patients on behalf of Adhunik Power.



7. <u>Training cum awareness program on TB:</u> On 15.06.2023, a training cum awareness program on prevention and treatment of tuberculosis was organized at Srirampur of Dugdha Gram Panchayat.

About 50 women participated. During training Ms. Bimola Tirkey-Ex.-LEO/BWO, Gamharia said that the chances of tuberculosis increase when one's body is weak as well as does heavy/hard physical work, takes drugs/alcohol, lives in an unhygienic environment. If we pay a little attention to ourselves, then we can eliminate the possibility of getting TB disease.





Mr. Sanjeet Kumar Sinha said that APNRL is working closely with the TB eradication program to reduce the cases in our catchment area. He appealed that the person who has cough and fever for more than two weeks should get himself examined in the nearest CHC/hospital. If the case is confirmed, then get yourself registered online immediately so that you can get the benefits given by the government like

financial suppot, medicines etc. If it is not treated in the early stages, it proves fatal. Vote of thanks was given by Ms. Baruna Nayak.

8. First AID Box: When someone has a physical accident, then it is most important to give first aid to the victim so that the damage caused by the physical accident can be reduced. A first aid box is a kit that

accident can be reduced. A first aid box is a kit that contains medicines, equipment, and self-defense items to use in an emergency. With the help of this kit, first aid can be given to the injured person. Keeping this in mind, first aid box has been provided to Anganwadi center Badhriharpur, Govt. School-Padampur & badahariharpur in the



presence of Panchayat Samiti members Ms. Lakshmi Murmu, Mr. Anil Sardar and Mr. Sanjeet Sinha under CSR.

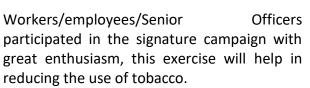
<u>World Anti-Tobacco Day 2023:</u> World Anti-Tobacco Day is observed every year on 31 May across the world. The day aims to draw global attention to the wide spread and negative health effects of tobacco, which currently leads to deaths worldwide. The theme of the world No Tobacco day 2023 is 'We need food, not tobacco'.

Various activities like signature campaign, essay competition, speech competition were organized by APNRL. Signature campaign at plant level as well as speech and essay competition at village level was organized.

Signature campaign organized in plant premises on 31st May 2023 at 8.30AM to raise



awareness amongst the workers/employees against bad effect of tobacco in human body. More than 100





1. Eye check-up camp: Eye problem is an issue in area. CSR, department coordinated with Purnima Netralaya, Jamshedpur and the Eye check-up camp were organized on 24.5.2023





and 5.9.2023 at the OHC, Padampur and APNRL colony . Total 148 persons from the various villages including APNRL employees availed the check-up Our CEO Sri Arun Kumar Mishra has inspected eye check-up camp along with Sri Rajesh Sharma-VP, Sri. S.K.Parvez-DGM, Sri Amal Baidya-GM etc.

2. Health Awareness Program: The Company has always been empowering the village women



program was also organized for children of six months, in which children were fed complementary food with complete customs, women were given special information about this subject.

Godh bharai program: The

through various training events to lead their life with sustainable social recognition. Every month We organized Health Awareness program in association with Anganwadi worker on nutrition & breast feeding at Anganwadi Center, Badahariharpur, Padampur. Women were participated in it. Along with this, **Annaprashan**



Company has always been empowering the village women through various training events to lead their life with sustainable social recognition. CSR-Department APNRL organized *Godh bharai* celebration at AWC for pregnant women to encourage the good health and healthy living through the nutrition education as the malnutrition is the main obstruction to the National Development. Through this event pregnant women were given information on the



woman.

subject of diet, hygiene, vaccination, health check-up etc. Also it is prayed for good health and safe delivery of mother and child during pregnancy. A group of women came together to bless the pregnant woman and gave some items like thali, apple, banana, bangle, bindi, etc. to the pregnant

6. Seminar, Godbharai and Baby show: Malnutrition is a global problem & our area is also suffering from this problem due to unbalanced diet and lack of knowledge Form 13 - 28 Sept'2023 different activities





like a Seminar, Godbharai and Baby show organized in different villages Srirampur, Bikanipur, Padampur villages on the occasion of "**Poshan Maha**" Approximately 200 women including pregnant, lactating women with their child and CSR team-APNRL were participated in the programme.

Anganwadi workers related items on the importance of mixed well before and essential for the unborn child. She and lactating extra/



displayed nutrition floor and told about the food. She said that eating during pregnancy is safety and health of the said that pregnant women mothers should take supplementary food for

their unborn child and infant every day. After that we organized *a Godh bharai* function for pregnant women to encourage the good health and healthy living through the nutrition education as the malnutrition

7. International Yoga Day 2023: International Yoga Day is observed every year on June 21 to

raise awareness about ancient practice and to celebrate the physical and spiritual prowess that yoga has brought to the world. Yoga is a practice which plays an important role in relaxing the mind and body and boosting people's immune system. The 9th edition of International Day of Yoga was celebrated on



21st June 2023 with the employees and villagers at Sankalp Bhawan, APNRL.



The Yoga Class inaugurated by Mr. M. N. Singh Head O & M with lighting of candles who emphasized the importance of Yoga and physical exercises in daily life. About 70 employees including contract employees participated in Yoga Class. Mr. Rajesh Sharma, Mr. Sanjiv Chaudhary, Mr. NSP Rao, Mr. Amit Singh, Mr. Shrish Waghmare, Mr. Arjun Singh,

Mr. D. K. Ghoshal and others senior officers also participated with great enthusiasm. The sessions started at 7.00 am and carried out under the guidance of the yoga instructor Mr. Ashish Ranjan. Employees got the chance to know how yoga embodies unity of mind and body. This event had a very positive impact on creating awareness about the benefits of yoga

in human life. Ranjit Singh, Anil Sardar & Diwakar Upadhyay gave their important support to make this event a success. The class ended with a vote of thanks by Sanjeet Kumar Sinha-CSR.

8. Spraying and distribution of bleaching powder:

During rainy session the health of the people in the villages around the plant is a major



concern as most of the diarrhea cases were found in the previous year only during the rainy season. The main reason for diarrhea is polluted water and unhygienic conditions around the village as well as lack of information among the people about prevention of diarrhoea.

Keeping this in mind, the CSR department of APNRL showed its solidarity by running a health awareness campaign in Badahariharpur from 02.08.2023, which continued in the villages of Padampur, Srirampur, Chhotahariharpur and Bikanipur.

In continuation, bleaching powder was sprayed in drains, wells and waterlogged areas with the help of village volunteers as well as bleaching powder was also provided to the villagers to avoid various diseases caused by dirt and mosquitoes etc. This program is being run with the aim of controlling diarrhoea, malaria and water borne diseases.

EDUCATION

1. Project CYBER VILLAGE: In order to make the village youths/students of Barahariharpur

and nearby areas computer literate under the Project CYBER VILLAGE.

The **objectives** of the **Project CYBER VILLAGE** were as under:

 To make village youths/students computer literate for their pursuit of better career in future.



ii. To make villagers aware of the importance of information revolution through internet.

The detailed status of the **Computer Literacy Centre**:

S. No.	Center		Wise Enrollmore The Youths	ent Status	Subjects Taught
		Male	Female	Total	raugiit

1	Badahariharpur	12	9	21	MS Interr	Office/ net	Tally/
	Total	8	10	18			

Youth are taking internet facility; this study will develop youth.

<u>Teaching learning materials to AWCs:</u> Under CSR, APNRL provided teaching learning materials like Carpet, Alpha Word Chat, Flower Chat, Animal Chat, Fruit Chat etc. to Anganwadi Centers ____ near the plant area for preschool children



to improve education during the month of Sept,23.

- 3. <u>Bus facilities:</u> Bus facility has been providing to girl students of peripheral village for higher education at Jamshedpur. About 40 villages girl students are availing the bus facilities.
- 4. <u>Drawing Competition 1st to 3rd June 2023:</u> Skill development among the local children is the





prime objective of our CSR programme. To implement this objective, we had organized drawing competition in Srirampur, Padampur, Badahariharpur and Dhatkidih on the occasion of World Environment day 2023. More than 25 children from the mentined village participated and were awarded. The children were very happy. A total of 95 children participated.

WOMEN EMPOWERMENT & LIVELIHOOD

1. <u>Self Help Group (SHG) Meeting:</u> - Every Month the SHG members meeting were organized in Chotahariharpur; Srirampur; Padampur attended meeting. Members participated and discussed regarding repayment of loan and also discussed in personal hygiene.

The **objectives** of Self Help group meeting were as under:

- i) To explore the functional aspects of SHGs in promoting micro saving and inter loaning activities.
- ii) To increase social cohesiveness among the members of women Self-Help-Group.
- 2. <u>Agarbatti Making by Swarsati Mahila Samiti, Kandra</u>: The members of Swarsati Mahila Samiti, Chotahariharpur engaged in Agarbatti making as their livelihood. CSR team is facilitating the group in marketing to achieve their aim.
- 3. <u>Nil Production by Johar Jaher Ayo Mahila Samiti:</u> 15 members of <u>Johar Jaher Ayo Mahila Samiti</u> of Padampur engaged in Nil Production & selling. This has helped them in increasing corpus fund for their group. They have made this activity as their livelihood.

Sports & Culture:

1. Volley ball and net to UM School, Padampur: Sports play great role in improving and



maintaining the health and fitness, improving mental skills and concentration level. We provided volleyball & net to the Principal, UM School, Padampur for the students on 29.7.2023. The students were very happy. We also provided volleyball & net to youth club, Pindrabera, Badahariharpur, Bikanipur for the Youths on 5.8.2023. The Youths were very happy.

2. <u>Inter Village Chess Competition:</u> We organized an Inter village chess competition on 20.7.2023 at Community Centre, Bikanipur with the youth of peripheral villages - Hariharpur, Shrirampur, Bikanipur







& Padampur on the occasion of World Chess Day 2023. Around 30 youth from different villages participated including girls out of which 3 boys and 3 girls selected for awards. Two youths were identified for consolation prizes. The winners of this match were Mr. Singrai Mardi in the boy category and Sangeeta Sardar in the girl category. Mr.

Paga Sardar gave the welcome speech. Mr. Sanjeet Kumar Sinha- APNRL said that chess is a game which helps us to improve cognitive skills like memory, planning and problem-solving and also helps the youth to become better problem solvers in their everyday life. A lot of enthusiasm was seen in the youth, the game started with great enthusiasm. At the end of the match, the youth said that this type of competition should continue in the future as well. Vote of thanks was given to Mr. Anil Sardar.

ENVIRONMENT

Earth day 2023: Earth Day is an important reminder of the interconnectedness of all living things and the urgent need to take action to protect our planet. Earth Day, observed every April 22, is a worldwide annual event that serves to increase environmental awareness and inspire individuals to take action in protecting our planet.the global organizer of Earth Day and the largest recruiter of environmental movements worldwide, announced today the theme for Earth Day 2023 – "Invest in Our Planet." Adhunik Power & Natural Resources Limited is always concerned about the nature, environment and earth. Showing its deep concern about the earth APNRL have celebrated Earth Day by plantation of saplings.

The CEO of the company Mr. Arun Kumar Mishra with other senior officials namely Mr. M N Singh, Mr. Rajesh Kumar Sharma, Mr. Ajay Manohar Bangde, Mr. Amal Baidya, Mr. Biraj Kumar, Mr. Sanjeet Sinha and Mr. Kam-lesh Kumar planted saplings to show their nature caring gesture.

2. World Environment Day 2023: Our Plant Celebrated World Environment Day on 5th June, 2023. First a cycle rally was flagged off by CEO sir, Shri Arun Kumar Mishra in which around



300 employees including villagers participated, they were moving from plant premises to Pindrabeda Vs Kandra bus stand and raising loud slogans during rally. Being a busy road, security and supervision personnel took care of the cyclists. Then he also initiated the plantation of tree inside the premises of the company. Officers and village children also participated in plantation of tree. He addressed the audience with an enlightening speech mentioning how small endeavors could make a big difference. He urged everyone to save the environment as well as spread awareness among the people. He also said that "Each one can do his bit by stopping the use of plastic bags; stop wasting food, start using public conveyance to save fuel. For a greener tomorrow, each one needs to do his or her bit". About 300 sapling distributed among the villagers also. The vote of thanks was given by Sr. Manager-Kamlesh Kumar-Environment Department.

3. Tree plantation programme: Trees give us fresh air to breathe by taking in carbon dioxide and



releasing oxygen. It provides home and food to many animals, insects and birds. Trees help keep the



climate cool and prevent global warming. It helps prevent soil erosion by attaching itself to the soil with its roots. In view of this,

we organized a tree plantation program on the occasion of Teacher's Day at UM School, Padampur on 5.9.2023. All the students and teachers participated in this program. Also, some officers of APNRL including CEO have participated in program. They guided to children on how to plant a sapling properly. We planted saplings near boundary wall of the school. The CEO of APNRL gave a speech on importance of tree plantation. He said that Tree plantation is important because it provides fresh fruits, vegetables, nuts, and other foods for the survival of life on Earth. The program ended with the vote of thanks given by school principal Ms. Joba Mandal.

OTHER

25-Plastic chair: During the public meeting in the Kandra police station, people used to find it difficult to sit, keeping this in mind, 25 new chairs were provided by the company to the Kandra police station under CSR. This chair will

be of great help to the Kandra police station.



<u>Repairing of Village Road:</u> Adhunik Power & Natural Resources Limited, Padampur has been instrumental in improving socio-eco conditions of local communities around which the company is operative.

Due to the rain, there were potholes on the road of Virdhwajpur village, due to which the villagers





were facing a lot of trouble in the movement. We took note and provided soil, slag (plant waste material) and JCB on 6.7.2023 for fill the potholes/trenches and repairing the road. Now the road has been repaired and the villagers are happy with the work.

Village road repairing from Choto hariharpur to saraikela road: During our meeting with the





residents of Chhotahariharpur, the villagers appealed to us to provide JCB from company for laying slag on the road so that the road can be repaired. The villagers told that the condition of village road is so bad that an accident may occur any time due to the ditches it has i.e. there is a high risk of accident. They said that our children, elders and others are getting hurt every day, the road has been almost impassable. We are continuously facing that oppression. The villagers said that they would themselves arrange for slag for road repairs.

In view of the above, under CSR, JCB was made available to the villagers through the company (APNRL) on 6.9.2023 and 15.9.2023. The villagers got the road repaired under their supervision. Now the road has been repaired and the villagers are happy with the work.

<u>Awards/ letter of appreciation:</u> On 12.7.2023 Adhunik Power received a letter of appreciation from the Government of Jharkhand, which was jointly given by Jharkhand's





Health Minister Mr. Banna Gupta and Labor Minister Mr. Satyanand Bhokta under the Nikshay-Mitra Yojana in the presence of state level officers in Ranchi.

<u>Financial Assistance to Old age home Ashram "Aashirwad Bhawna" New Baradwari,</u> Jamshedpur:



We visited Old Age Home, Baradwari on 14.7.2023 which is maintained by Brahma Kumaris and observed that all basic amenities like accommodation, foods,

cloths, medicines and other facilities are provided free of cost



to the old peoples of above 60 years till their death.

Health cheek-up and necessary medical facilities are also provided. The ashram is running in

the government building. Sri Arun Kumar Mishra-CEO handed over a check of Rs.39000.00 on behalf of Adhunik Power for a week's food to the old people living in the ashram.

Sri Arun Kumar Mishra & Director of the Adhunik Group Sri Nirmal Agarwal





spent more time with old people and served food during lunch time and took lunch with together as a blessing. Sri Nirmal Agarwal said that service to old people is the biggest service. We should always serve the old people by being ahead. We express our gratitude and respect to the caring staff

who are taking care of the elderly with a sense of service.

Media









LIST OF LOCAL EMPLOYEES OF APNRL

	LIO1 01 L	OCAL EMPLOTEES OF AP	1411/12
SI.No.	Employee_Co de	Employee_Name	Cadre
1	00302223	Arun Kumar Mahato	High Skilled
2	00302236	Rajen Kumar Tudu	High Skilled
3	00302386	Budhram Baskey	High Skilled
4	00302387	Ajit Mahato	High Skilled
5	00302393	Bijay Baskey	High Skilled
6	00302436	Rajaram Baskey	High Skilled
7	00302462	Rajesh Kumar Mahato	High Skilled
8	00302503	Raju Tudu	High Skilled
9	00302506	Ruhi Ram Majhi	High Skilled
10	00302510	Santosh Mardi	High Skilled
11	00302516	Rajesh Mahato	High Skilled
12	00302517	Mohan Lal Mahato	High Skilled
13	00302518	Sumit Kumar Mahato	High Skilled
14	00302519	Tapan Kumar Mahato	High Skilled
15	00302520	Bibhishan Mahato	High Skilled
16	00302521	Suku Murmu	High Skilled
17	00302522	Bimal Kumar Mandal	High Skilled
18	00302524	Vikram Baskey	High Skilled
19	00302525	Mangal Besra	High Skilled
20	00302526	Bir Singh Hembram	High Skilled
21	00302527	Gopal Hembrom	High Skilled
22	00302529	Durga Hembrom	High Skilled
23	00302530	Suren Baskey	High Skilled
24	00302532	Budheswar Baskey	High Skilled
25	00302533	Karan Hembrom	High Skilled
26	00302534	Umesh Tudu	High Skilled
27	00302550	Birdhan Baskey	High Skilled
28	00302574	Anil Sardar	High Skilled
29	00302604	Sohan Kisku	High Skilled
30	00302605	Dilip Kisku	High Skilled
31	00302606	Rabindra Nath Majhi	High Skilled
32	00302607	Mokra Murmu	High Skilled
33	00302608	Lakhiram Tudu	High Skilled
34	00302384	Lal Mohan Mahato	High Skilled
35	00302610	Jiten Hansda	High Skilled
36	00302611	Jiten Sardar	High Skilled
37	00302612	Ashok Kumar Mahato	High Skilled
38	00302613	Mangal Majhi	High Skilled
39	00302614	Sagram Tudu	High Skilled
40	00302615	Sunil Kumar Tudu	High Skilled
41	00302616	Ganesh Mahato	High Skilled
42	00302617	Sachin Kumar Tudu	High Skilled
43	00302618	Alok Mahato	High Skilled
44	00302619	Rakesh Kumar Mahato	High Skilled
45	00302620	Chhotray Majhi	High Skilled
46	00302622	Govind Majhi	High Skilled
47	00302495	Anita Mahato	High Skilled
48	00302602	Sarla Majhi	High Skilled
49	00302237	Bangal Majhi	Skilled
50	00302430	Laxman Baskey	Skilled
51	00302493	Surajmani Baskey	Skilled
52	00302507	Dilip Kumar Mahato	Skilled
J_	20002001	=p rtamai manato	

SI.No.	Employee_Co de	Employee_Name	Cadre
53	00302508	Dulal Mahato	Skilled
54	00302509	Raju Mahato	Skilled
55	00302528	Chhatamuni Baskey	Skilled
56	00302540	Birendranath Baskey	Skilled
57	00302541	Shailendra Tudu	Skilled
58	00302621	Devi Lal Majhi	Skilled
59	00302609	Durga Baskey	Skilled
60	00302645	Manik Singh Sardar	Skilled
61	00302659	Krishna Manjhi	Skilled
62	00302660	Sakla Hembrom	Skilled
63	00302661	Uttam Kumar Mahato	Skilled
64	00302662	Shikar Hembrom	Skilled
65	00302669	Som Murmu	Skilled
66	00302670	Khirod Chandra Mahato	Skilled
67	00302671	Sona Ram Hembrom	Skilled
68	00302673	Rajesh Mahato	Skilled
69	00302674	Nimay Mahato	Skilled
70	00302676	Peeton Baskey	Skilled
71	00302679	Baijnath Mardi	Skilled
72	00302680	Nitai Sardar	Skilled
73	00302681	Baliram Murmu	Skilled
74	00302682	Karu Tilka Majhi	Skilled
75	00302684	Jitu Hembrom	Skilled
76	00302687	Soken Tudu	Skilled
77	00302694	Akash Tudu	Skilled
78	00302696	Mahendra Tantubai	Skilled
79	00302698	Karu Besra	Skilled
80	00302700	Ravindra Nath Tudu	Skilled
81	00302708	Jeevan Manjhi	Skilled
82	00302709	Birsa Hansda	Skilled
83	00302711	Sanjay Mandal	Skilled
84	00302712	Budhadev Mahato	Skilled
85	00302713	Narayan Mahato	Skilled
86	00302714	Jai Chand Mahato	Skilled
87	00302715	Mithun Majhi	Skilled
88	00302716	Sumit Kumar Mahato	Skilled
89	00302717	Mantu Mahato	Skilled
90	00302719	Ranjit Singh Sardar	Skilled
91	00302523	Bablu Besra	Skilled
92	00302531	Dasmath Hembrom	Skilled
93	00302453	Paneshwari Kumari	Semi-Skilled
94	00302454	Sunil Baskey	Semi-Skilled
95	00302458	Nuna Baskey	Semi-Skilled
96	00302463	Sonia Baskey	Semi-Skilled
97	00302494	Saraswati Devi	Semi-Skilled
98	00302501	Bangi Baskey	Semi-Skilled
99	00302628	Kalipada Singh Sardar	Semi-Skilled
100	00302644	Vikram Singh Sardar	Semi-Skilled
101	00302646	Jagnath Singh Sardar	Semi-Skilled
102	00302647	Budheshwar Mahato	Semi-Skilled
103	00302663	Ranjit Besra	Semi-Skilled
104	00302664	Hopna Baskey	Semi-Skilled
105	00302665	Sona Ram Baskey	Semi-Skilled
100	00002000	Cona Ram Daskey	Com Onneu

SI.No.	Employee_Co de	Employee_Name	Cadre
106	00302666	Suku Majhi	Semi-Skilled
107	00302667	Gopal Majhi	Semi-Skilled
108	00302668	Ramdas Kisku	Semi-Skilled
109	00302672	Ram Hembrom	Semi-Skilled
110	00302677	Raju Baskey	Semi-Skilled
111	00302678	Bablu Baskey	Semi-Skilled
112	00302683	Rajendra Hembrom	Semi-Skilled
113	00302688	Umesh Baskey	Semi-Skilled
114	00302690	Anil Tudu	Semi-Skilled
115	00302695	Sushil Kumar Tudu	Semi-Skilled
116	00302697	Prakash Tudu	Semi-Skilled
117	00302701	Som Majhi	Semi-Skilled
118	00302702	Salku Tudu	Semi-Skilled
119	00302707	Sukram Tudu	Semi-Skilled
120	00302710	Surja Hansda	Semi-Skilled
121	00302718	Santosh Sardar	Semi-Skilled
122	00302720	Lal Mohan Mahato	Semi-Skilled
123	00302721	Sohan Sardar	Semi-Skilled
124	00302722	Paga Sardar	Semi-Skilled
125	00302773	Shibnath Singh Sardar	Semi-Skilled
126	00302774	Basanti Singh Sardar	Semi-Skilled
127	00302775	Kali Pado Sardar	Semi-Skilled
128	00302956	Ms. Pano Devi	Semi-Skilled

Sewage Treatment Plant







Government of India

Ministry of Commerce & Industry Petroleum & Explosives Safety Organisation (PESO) श्री मोहन, तीसरा माला, सीता परिसर, मेन रोड, सुशीला ऑटोमोबाइल के पीछे राची- 834001

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

E-mail: dycceranchi@explosives.gov.in

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

दिनांक /Dated : 24/02/2023

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

सेवा में /To.

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

State: Jharkhand PIN: 832105

2 4 FEB 2023

विषय/Sub : Plot No, Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur (Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 में स्वित विचमान पेट्रीलियम वर्ग C अधिष्ठापन में अनुवीस से P/HQ/JH/15/1065 (P257355)

Existing Petroleum Class C Installation at Plot No, Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur(Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 - Licence No. P/HQ/JH/15/1065 (P257355) - Renewal regarding.

महोदय /Sir (s),

कृतया आपके पत्र क्रमांक OIN1307334 दिनांक 23/02/2023 का अवदोकन करें।

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

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

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

कृतवा पेट्रोलिक्स नियम 2002 के अधीन बनाए गए निवम 148 में दी गई प्रक्रिया का कहाई से पालन करें । अनुक्रप्ति के नवीकरण हेतु समस्त करनावेजों को अनुक्रप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेपित करें ।

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

Please acknowledge the receipt.

भवदीय /Yours faithfully,

(Ashendra Singh)) पखंप विस्फोटक नि Dy. Chief Controller of Explosives रांची/Ranchi

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

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

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

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

नवीनीकरण के पृष्ठांकन के लिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपनन्यों या उनके अधीन बनाए गए नियमों या इस अनुज्ञारि की रातों का उस्तंपन न होने की दशा में यह अनुज्ञारि फिस में बिना किसी कुट के दस वर्ष तक नवीकृत की जा सकेगी This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	নরীক্ষণে কী নাগীভ Date of Renewal	समाप्ति की तारीर Date of Expiry of lice	Signature and office stamp of the licencing
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	Sd/- K. Thiagarajan Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Ranchi
4).	24/02/2023	31/12/2026	Ashendra Singh Dy. Chief Controller of Explosives Ranchi

यदि अनुइासि परिसर इसमें उपाबद वितरण और सर्तों के अनुरूप नहीं पाए जाते है और जिन नियमों और सर्तों के अधीन यह अनुइासि पह्न की गई है उनमें से किसी का उल्लंधन होने की दशा में यह अनुइासि रह्न की जा सकती है और अनुइासियारी प्रधम अपराय के लिए साखारण 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 पश्चाववर्ती अपराय के लिए साखारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, इण्डनीय 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.

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



Government of India

Ministry of Commerce & Industry Petroleum & Explosives Safety Organisation (PESO) श्री मोहन, तीसरा माला, सीता परिसर, मेन रोड, सुशीला ऑटोमोबाइल के पीछे राची- 834001

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

E-mail: dycceranchi@explosives.gov.in

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

दिनांक /Dated : 24/02/2023

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

सेवा में /To.

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

State: Jharkhand PIN: 832105

2 4 FEB 2023

विषय/Sub : Plot No, Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur (Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 में स्वित विचमान पेट्रीलियम वर्ग C अधिष्ठापन में अनुवीस से P/HQ/JH/15/1065 (P257355)

Existing Petroleum Class C Installation at Plot No, Plot No. 161,, Behind PGCIL.Substation adityapur, Kandra Road, Village- Padampur, Adityapur(Gamharia), Taluka: Adityapur(Gamharia), District: SARAIKELLA KHARSWAN, State: Jharkhand, PIN: 832402 - Licence No. P/HQ/JH/15/1065 (P257355) - Renewal regarding.

महोदय /Sir (s),

कृतया आपके पत्र क्रमांक OIN1307334 दिनांक 23/02/2023 का अवदोकन करें।

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

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

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

कृतवा पेट्रोलिक्स नियम 2002 के अधीन बनाए गए निवम 148 में दी गई प्रक्रिया का कहाई से पालन करें । अनुक्रप्ति के नवीकरण हेतु समस्त करनावेजों को अनुक्रप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेपित करें ।

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

Please acknowledge the receipt.

भवदीय /Yours faithfully,

(Ashendra Singh)) पखंप विस्फोटक नि Dy. Chief Controller of Explosives रांची/Ranchi

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

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

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

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

: TK105

Date of Sample Drawn

20/07/19

Source of Sample Tank No

: TK105 .

Date of Sample Receipt

21/07/19

Qty of Sample/

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

Date of Sample Testing 22/07/19

Density/Type of Sample

Catg / Evnt / Actvty

Date of Report

: 22/07/19

: 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.

Specifications

Test Line Number	Characteristics	Units	Test Method	Min	Max	Result Value
5	DENSITY@ 15°C	Kg/m3	IS 1448 [P :16]			867.8
6	KINEMATIC VISCOSITY @ 40° C	oSt	IS 1448 P :25	2.500	15.000	4.860
7	FLASH POINT - PMCC	*c	IS 1448 P :21	66	15.555	
8	WATER CONTENT	% Vol	IS 1448 P:40		.250	79 100
9 -	TOTAL SULPHUR	% Mass	ASTM D 4294	Ž.	1.50	
10	POUR POINT SUMMER	•c	IS 1448 P : 10		21	,47 3

Remarks:

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



Jharkhand State Pollution Control Board, JSPCB Accredited by National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



Certified By

Test Report

ULR No.:	C	1	1	5	1	5	2	3	0	0	0	0	0	1	3	0	8
Discipline: Chemic	al	Gro	up: A	tmos	oheric	Pollu	tion	Sub-	Grou	ı p: Am	bient	Noise	Level	s (Exc	luding	Vibra	tion)
Report Issue Date	30-09-	2023				N. C.		Test	Repo	ort No	.: RN-	23032	0001	N1			
Sample ID: 230923	AP0300)1			572			Sam	ple D	escrip	tion:	Ambie	ent No	oise			
Challan No./P.O.	o.: 303	000645	7	Ų.				Chal	lan D	ate/P	.O. Da	te.: 0	6-12-2	2022			
ADHU									D.								
									D.								
VILL P Type of Industry:	ADMPI ower P	JR, PO						02		r Rep	resent	tative	: Kam	nlesh	Jha		
VILL P	ADMPI ower P	JR, PO						02 Cust	tome		resent						
VILL P Type of Industry:	OWER P	JR, PC lant eam	CIL	S/S, I	KAND			02 Cust	tome								
VILL P Type of Industry: I Sample Drawn by	ower P IEM To deline	JR, PO lant eam & IS Me	thod	S/S, I	KAND			02 Cust	tome								
VILL P Type of Industry: I Sample Drawn by Protocol: CPCB Gu	ower Post IEM Todeline &	JR, PC lant eam & IS Me ati stee	thod	9989	KAND	RA-8	83240	02 Cust	tome	Date		-2023	to 23	3-09-2		o SE	

----Test Result----

SI. No Parameter		Method	Unit	Day	Time	Night	Time	Limits
				1 m	10 m	1 m	10 m	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	55.2	54.6	52.5	52.1	D-75 N-70

----End of Reports--

Note: -

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

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

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by	Authorized Signatory
The laboratory accepts responsibility for content of this report.	1	a constitute recording
This report shall not be reproduced except in full, without written approval of the MD.	and fine	nmental
This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue	Chryson	1 2 -
Total liability of Institute for Environmental Management will be limited to invoiced amount only.	5 1 1/5/ 1	
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report	Dy. Quality Manager	Director
is issued by the Director of the Organization.	by. Quality Manager	Pilectol



Jharkhand State Pollution Control Board, JSPCB Accredited by

National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



Test Report

ULR No.: T C 1 1	L 5	1 5	2 3	0	0	0 0	0	1	3	0	9
Discipline: Chemical Group	: Atmo	spheric Pollut	tion Sub -	Group	o: Am	bient No	ise Lev	els (Exc	cluding	g Vibra	ation)
Report Issue Date: 30-09-2023			Test	Repo	rt No	.: RN-230	03200	01N2			
Sample ID: 230923AP03002			Sam	ple De	escrip	tion: Am	bient	Noise			
Challan No./P.O. No.: 3030006457		Late being	Chal	lan Da	ate/P	.O. Date.	.: 06-1	2-2022			
VILL PADMPUR, PGC Type of Industry: Power Plant	JILO/O	, INAINDINA-C		tomer	Rep	resentat	ive: K	amlesh	Jha		
Type of Industry: Power Plant	110,0	, , , , , , , , , , , , , , , , , , , ,		tomer	Rep	resentat	ive: K	amlesh	Jha		
Sample Drawn by: IEM Team			Sam	pling	Date:	22-09-2	023 to	23-09-2	2023		
Protocol: CPCB Guideline & IS Meti	nod 998	39:1981					i i				
Sampling Location: Near Reservoir									Tellia II		
Field Meteorological Information	A. Te	emp.(°C): 27	R.H. (%):	51 \	W.C.:	Partly St	unny	W.D.	: NW t	to SE	
Sample Receiving Date: 23-09-202	3	Testing Starte	ed: 23-09-20	23		Testing	Ended	: 27-09-	2023		
		7	Test Result								

Day Time Night Time Limits Unit

Method SI. No **Parameter** 1 m 10 m 10 m 1 m D-75 1. Equivalent Sound Level (Leq) IS 9989:1981 dB(A) 57.2 56.8 49.3 48.6 N-70

----End of Reports---

Note: -

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

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

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by	Authorized Signatory
The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD.	Vision Vision	-C84
3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shapara	
In case of feedback/ complaints, please send an email at gm.iemeco@gmail.com	(Shreya Sonal)	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager	Director



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

												The second second					
ULR No.:	T	С	1 1	. 5	1	5	2	3	0	0	0	0	0	1	3	1	0
Discipline: Che	mical		Group	: Atm	ospher	ic Pollu	ition	Sub-Group: Ambient Noise Levels (Excluding Vibration)									ation)
Report Issue Da	ate: 30)-09-2	023		24	4		Test Report No.: RN-230320001N3									
Sample ID: 230923AP03003								Sam	ple D	escrip	otion:	Ambi	ent No	oise			
Challan No./P.	O. No.	: 3030	0006457	4.12				Chal	lan D	ate/P	.O. Da	ite.: 0	6-12-	2022			
			R, PGC	ILS/S	s, KAN	IDRA-	8324										
Type of Industr								Customer Representative: Kamlesh Jha									
Sample Drawn	by: IE	IN TE	am					Sampling Date: 22-09-2023 to 23-09-2023									
Protocol: CPCB	Guide	line &	IS Meth	od 99	89:198	1											
Sampling Locat	ion: N	ear Ol	НС														
Field Meteorol	ogical	Inform	nation	A. T	emp.(°	C): 27	R.H	R.H. (%): 61 W.C.: Partly Sunny W.D.: NW to SE									
Sample Receiving Date: 23-09-2023 Testing Started: 23									Testi	_			Carried Street				

----Test Result----

SI. No	Parameter	Method	Unit	Day	Time	Night	Time	Limits
	/			1 m	10 m	1 m	10 m	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	54.7	54.1	52.9	52.2	D-75 N-70

----End of Reports----

Note: -

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

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

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

Tested By: Neema Kumari

Specific Contractual Notes: -

Sample Drawn By: Rajiv Kumar Singh & Team

The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shaporte
In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director

Quality Checked by Authorized Signatory



Certified By

Institute for Environmental Management

Accredited by Jharkhand State Pollution Control Board, JSPCB
National Accreditation Board for Testing Laboratory (NABL) vide TC-11515

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



Test Report

ULR No.:	Т	С	1	1	5	1	5	2	3	0	0	0	0	0	1	3	1	1
Discipline: Chem	ical		Grou	p: At	mos	pheric I	Pollu	tion	Sub-Group: Ambient Noise Levels (Excluding Vibration)									
Report Issue Dat	e: 30	-09-2	023						Test Report No.: RN-230320001N4									
Sample ID: 230923AP03004									Sam	ple [)escri	ption:	Ambi	ent N	oise			
Challan No./P.O.	No.:	3030	00645	7		T. A		es mi	Cha	llan [Date/	P.O. D	ate.: 0	6-12-	2022			
Type of Industry:	-	-				34			Customer Representative: Kamlesh Jha									
Sample Drawn b	y: IE	МТе	am		N. FF				Sampling Date: 22-09-2023 to 23-09-2023									
Protocol: CPCB G	iuide	line &	IS Me	thod !	9989):1981												47
Sampling Location	n: N	ear M	ain Ga	te											15.7			
Field Meteorolog	leteorological Information A. Temp.(°C): 27						R.H	H. (%): 61 W.C.: Partly Sunny				ny	W.D.: NW to SE					
Sample Receiving	g Dat	te: 23	-09-202	23	T	esting S	Start	ed: 23	3-09-2	023		Test	ing En	ded: 2	7-09-	2023		
								est R	sult									

SI. No	Parameter	Method	Unit	Day	Time	Night	Time	Limits
				1 m 10 m	1 m	10 m		
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	60.1	59.4	59.4	58.8	D-75 N-70

----End of Reports----

Note: -

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

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

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

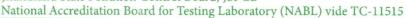
Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
 The laboratory accepts responsibility for content of this report. 	- nh
This report shall not be reproduced except in full, without written approval of the MI	
This report is intended for only guidance and not for legal purpose or for advertisen	
4. Any complaint about this report should be communicated in writing within 7 days of	its issue
5. Total liability of Institute for Environmental Management will be limited to invoiced a	amount only.
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr./S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory	the report Dy. Quality Manager Director
is issued by the Director of the Organization.	Dy. Quality Manager



Accredited by | Jharkhand State Pollution Control Board, JSPCB



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



Test Report

							and the same of th				-					
ULR No.: T C 1 1	. 5	1 5	2 3	0	0	0	0 0	1	3	0	2					
Discipline: Chemical		Group: Atm	ospheric	spheric Pollution Sub-Group: Ambient Air												
Report Issue Date: 30-09-2023	Report Issue Date: 30-09-2023							Test Report No.: RN-230320001A1								
Sample ID: 230923AP01001	Sa	mple D	escrip	tion: Am	nbient A	ir										
Challan No./P.O. No.: 3030006457			Cł	allan D	ate/P	O. Date.	: 06-12	-2022		1						
VILL PADMPUR, PGC Type of Industry: Power Plant	, iLO/O,	IVAINDIVA		Customer Representative: Kamlesh Jha												
Sample Drawn by: IEM Team				Sampling Date: 21-09-2023 to 22-09-2023												
						21-09-20	023 10 2	2-09-2	023							
Protocol: CPCB Guideline(NAAQMS,	/36/201	12-13) & IS N	Nethod 51	82 Seri	es											
Sampling Location: Village Padamp	ur (Buff	er Zone)						-8								
Field Meteorological Information	A. Tei	mp.(°C): 28	R.H. (%	R.H. (%): 65 W.C.: Partly Sunny W.D.: NW to SE												
Sample Receiving Date: 23-09-2023	3	Testing Sta	arted: 23-	9-2023	3	Testin	ng Ende	d: 27-09	9-2023							

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m³	100	94.2
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m³	60	39.5
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	18.7
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	μg/m ³	80	31.0
5.	Ammonia (NH ₃)	IS 5182 Part 25	μg/m ³	400	28.8
6.	OZONE (O ₃)	IS 5182 Part 09	μg/m ³	100	5.4
7.	ARSENIC (as As)	USEPA I.O. 3.2	ng/m ³		BDL (MDL-02)
8.	LEAD (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.17
9.	NICKEL (Ni)	IS 5182 Part 26	ng/m ³		BDL (MDL-4)

----End of Report----

	Interest to the post
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: Neema Kumari

Specific Contractual Notes: -

Sample Drawn By: Rajiv Kumar Singh & Team

opcomo contractada rectos.	additity officerity
The laboratory accepts responsibility for content of this report.	nmed of the
2. This report shall not be reproduced except in full, without written approval of the MD.	
3. This report is intended for only guidance and not for legal purpose or for advertisement.	C) words
4. Any complaint about this report should be communicated in writing within 7 days of its issue	ST A ME AND
5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	0 20 10 10 10
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report	Dy. Quality Manager Director
is issued by the Director of the Organization	Dy. Quality Manager

Quality Checked by

Authorized Signatory



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: Atmo	ospheric Pollutic	n Sub-Group	: Ambient Air		
Report Issue Date: 30-09-2023		Test Repo	ort No.: RN-23032000	IA1		
Sample ID: 230923AP01001		Sample D	escription: Ambient A	ir		
Challan No./P.O. No.: 3030006457		Challan D	Date/P.O. Date.: 06-12-	-2022		
ADHUNIK POWER & N. VILL PADMPUR, PGCIL Type of Industry: Power Plant		332402	er Representative: Kai	mlesh Jha		
Sample Drawn by: IEM Team		Sampling Date: 21-09-2023 to 22-09-2023				
Protocol: CPCB Guideline(NAAQMS/3	6/2012-13) & IS IV					
Sampling Location: Village Padampur	(Buffer Zone)					
	A Tame (9C), 20	D 11 /0/\. CF	M.C. Dorthy Suppy			
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 65	W.C.: Partly Sunny	W.D.: NW to SE		

----Test Results---

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³		BDL (MDL-0.18)
2.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m ³		BDL(MDL-1.8)
3.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	μg/m ³		BDL (MDL- 0.06)

----End of Report----

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by	Authorized Signatory
 The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue Total liability of Institute for Environmental Management will be limited to invoiced amount only. 	Shrynon	
In case of feedback/ complaints, please send an email at <u>qm.iemeco@gmail.com</u>	(Shreya Sonal) 💉 🤼	(Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager	Director







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	1	3	0	3
Discipline: Chemical Group: Atmosp								osphe	eric Po	llution	1	S	ub-Gr	oup:	Ambi	ent A	r		
Report Issue I	Pate: 30	-09-2	2023					4		Test	Repo	rt No.	: RN-2	30320	0001A	2			
Sample ID: 23	0923AF	0100	2			4				Sam	ple De	escrip	tion: A	mbie	nt Air	-97			
Challan No./P	.O. No.	3030	0006	457	11-11				-11	Chal	lan Da	ate/P.	O. Dat	e.: 06	-12-2	022			
	HUNIK										D.								
VIL	L PAC	MPL	JR,							02		Ponr	ocont	ativo:	Kam	osh I	ha	7	
VII Type of Indus	L PAC	MPL ver Pl	JR, ant							02 Cust	tomer		esent	-		-			2
VIL	L PAC try: Pov n by: IE	ver Pl	JR, ant eam	PG	CILS	6/S,	KAND	RA-	8324	02 Cust	tomer	Date:	esent 21-09	-		-			
VII Type of Indus Sample Draw	ry: Pov n by: IE Guide	MPU ver Pl EM Te line(N	JR, ant eam	PG(CILS 6/36/	201	KAND	RA-	8324	02 Cust	tomer	Date:		-		-			
Type of Indus Sample Draw Protocol: CPC	ry: Pov n by: IE Guide tion: V	ver Pl M Te line(N illage	JR, ant eam NAAC Srira	PG(QMS	6/36/ ur(B	/201 (2)	KAND	RA-	8324 1etho	02 Cust	tomer pling I Serie	Date:		-2023	to 22	-09-20	023	to SE	

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m³	100	.80.4
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m³	60	29.7
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	10.6
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	μg/m³	80	22.9
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m³	400	22.5
6.	OZONE (O ₃)	IS 5182 Part 09	μg/m ³	100	7.2
7.	ARSENIC (as As)	USEPA I.O. 3.2	ng/m³		BDL (MDL-02)
8.	LEAD (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.2
9.	NICKEL (Ni)	IS 5182 Part 26	ng/m ³		BDL (MDL-4)

----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: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Quality Checked by Authorized Signatory
= CP
Shappage
(Shreya Sonal) (Dr. S. C. Jain)
Dy. Quality Manager Director



Institute for Environmental Management Accredited by Jharkhand State Pollution Control Board, JSPCB

Accredited by Jharkhand State Pollution Control Board, JSPCB

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



Test Report

Discipline: Chemical	Group: Atmo	ospheric Pollutio	n Sub-Group	: Ambient Air		
Report Issue Date: 30-09-2023	377	Test Repo	ort No.: RN-230320001	1A2		
Sample ID: 230923AP01002		Sample D	escription: Ambient A	ir		
Challan No./P.O. No.: 3030006457		Challan D	ate/P.O. Date.: 06-12-	-2022		
ADHUNIK POWER & N VILL PADMPUR, PGC Type of Industry: Power Plant		832402	r Representative: Kar	mlesh Jha		
Sample Drawn by: IEM Team			Sampling Date: 21-09-2023 to 22-09-2023			
Protocol: CPCB Guideline(NAAQMS/	36/2012-13) & IS N	lethod 5182 Seri	es			
Sampling Location: Village Srirampu	r(BZ)					
Field Meteorological Information	A. Temp.(°C): 28	R.H. (%): 65	W.C.: Partly Sunny	W.D.: NW to SE		

----Test Results---

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³		BDL (MDL-0.18)
2.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m ³		BDL(MDL-1.8)
3.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	µg/m³	0	BDL (MDL- 0.06)

----End of Report----

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
1. The laboratory accepts responsibility for content of this report. 2. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only. 6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Rand Director







Accredited by | Jharkhand State Pollution Control Board, JSPCB



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	1	3	0	4
Discipline: Chemical		Group:	Atmo	spheric	Pollutio	n	St	ub-Gro	oup:	Ambi	ent Ai	r	
Report Issue Date: 30-09-2023				Te	st Rep	ort No	.: RN-23	30320	001A	.3			
Sample ID: 230923AP01003				Sa	mple D	escrip	tion: A	mbien	t Air				35
Challan No./P.O. No.: 3030006457				C	nallan D	ate/P	O. Date	e.: 06-	12-20	022			
ADHUNIK POWER & I					LTD.								
VILL PADMPUR, PGC				332402		r Pon	roconta	tivo:	Kaml	esh l	ha		
VILL PADMPUR, PGC Type of Industry: Power Plant				332402 C	ustome		resenta						- 5%
VILL PADMPUR, PGC Type of Industry: Power Plant Sample Drawn by: IEM Team Protocol: CPCB Guideline(NAAQMS/	/36/20	12-13) &	RA-8	332402 C Sa	ustome mpling	Date:	resenta 21-09-2						
VILL PADMPUR, PGC Type of Industry: Power Plant Sample Drawn by: IEM Team	/36/20	12-13) &	RA-8	332402 C Sa	ustome mpling	Date:	21-09-2	2023 t	0 22-	-09-20	023		
VILL PADMPUR, PGC Type of Industry: Power Plant Sample Drawn by: IEM Team Protocol: CPCB Guideline(NAAQMS/	/36/20 G (CZ)	12-13) &	RA-8	332402 C Sa	u stome impling .82 Seri	Date:		2023 t	0 22-	-09-20		to SE	

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m³	100	86.2
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	34.6
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	14.6
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m³	80	28.4
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m³	400	25.3
6.	OZONE (O ₃)	IS 5182 Part 09	µg/m³	100	7.7
7.	ARSENIC (as As)	USEPA I.O. 3.2	ng/m ³		BDL (MDL-02)
8.	LEAD (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.21
9.	NICKEL (Ni)	IS 5182 Part 26	ng/m ³		BDL (MDL-4)

----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: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Quality Checked by Authorized Signatory
Shaper Sh
(Shreya Sonal) (Dr. S. C. Jain)
Dy. Quality Manager Director



Accredited by Jharkhand State Pollution Control Board, JSPCB

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



Test Report

Discipline: Chemical	Group: Atmospheric Pollu	cion Sub-Group: Ambient Air
Report Issue Date: 30-09-2023	Test Re	port No.: RN-230320001A3
Sample ID: 230923AP01003	Sample	Description: Ambient Air
Challan No./P.O. No.: 3030006457	Challar	Date/P.O. Date.: 06-12-2022
ADHUNIK POWER & NA VILL PADMPUR, PGCILS	TURAL RESOURCES LTD. 5/S, KANDRA-832402	
Type of Industry: Power Plant	Custor	ner Representative: Kamlesh Jha

Sampling Date: 21-09-2023 to 22-09-2023

Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series

Sampling Location: ADMIN BUILDING (CZ)

Sample Drawn by: IEM Team

Field Meteorological Information A. Temp.(°C): 28 R.H. (%): 65 W.C.: Partly Sunny W.D.: NW to SE

Sample Receiving Date: 23-09-2023 Testing Started: 23-09-2023 Testing Ended: 27-09-2023

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³		BDL (MDL-0.18)
2.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m ³		BDL(MDL-1.8)
3.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	µg/m³		BDL (MDL- 0.06)

----End of Report----

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue Total liability of Institute for Environmental Management will be limited to invoiced amount only.	Shrynof
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director







Jharkhand State Pollution Control Board, JSPCB Accredited by



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	1	3	0	5
Discipline: Che	mical					Group	: Atm	osphe	eric Po	llution	 1	<u> </u>	Sub-G	oup:	Ambi	ent Air	•	
Report Issue D)-09-2	2023										-230320			97		
Sample ID: 230		-			- 25		100		Sam	ple De	escrip	tion:	Ambie	nt Air	-67			
Challan No./P.	O. No.	: 3030	00064	57					Chal	lan Da	ate/P.	O. Da	ate.: 06	-12-2	022			
VIL	L PAL	MPL	JR, P						ES LT 02									
						KAN			02		Pon	rocon	tative:	Kam	lesh I	ha		
Type of Indust	ry: Pov	ver Pl	ant						02 Cus	tomeı			itative:					_
Type of Industr Sample Drawn	ry: Pov ı by: IE	ver Pl EM Te	ant eam	GCIL	_S/S,	KAN	DRA-	8324	02 Cust	tome:	Date:		i tative: 9-2023					
Type of Industr Sample Drawn Protocol: CPCB	ry: Pov 1 by: IE 3 Guide	ver Pl EM Te line(N	ant eam NAAQI	GCIL MS/3	.S/S ,	12-13)	DRA - & IS N	8324	02 Cust	tome:	Date:							
	ry: Pov h by: IE Guide tion: V	ver Pl EM Te line(N ILLAG	ant eam NAAQI GE PINI	MS/3 DRAB	6/20:	12-13)	& IS N	8324 Metho	02 Cust	tomei pling 2 Serie	Date:	22-09		to 23	-09-20		to SE	

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m³	100	92.5
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	μg/m ³	60	38.4
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	16.2
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m³	80	29.7
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	26.5
6.	OZONE (O ₃)	IS 5182 Part 09	µg/m³	100	6.3
7.	ARSENIC (as As)	USEPA I.O. 3.2	ng/m ³		BDL (MDL-02)
8.	LEAD (as Pb)	IS 5182 Part 22	µg/m ³	1.0	0.23
9.	NICKEL (Ni)	IS 5182 Part 26	ng/m ³		BDL (MDL-4)

----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: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
 The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue Total liability of Institute for Environmental Management will be limited to invoiced amount only. 	Shrysond &
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S/C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager



Accredited by Jharkhand State Pollution Control Board, JSPCB

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



Test Report

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 30-09-2023	Test Report N	o.: RN-230320001A4
Sample ID: 230923AP02001	Sample Description: Ambient Air	
Challan No./P.O. No.: 3030006457	Challan Date/	P.O. Date.: 06-12-2022

Issued to:

ADHUNIK POWER & NATURAL RESOURCES LTD. VILL PADMPUR, PGCILS/S, KANDRA-832402

Type of Industry: Power Plant	Customer Representative: Kamlesh Jha
Sample Drawn by: IEM Team	Sampling Date: 22-09-2023 to 23-09-2023
Protocol: CPCB Guideline(NAAOMS/36/2012-1	3) & IS Method 5182 Series

Sampling Location: VILLAGE PINDRABARA GATE (BZ)

Field Meteorological Information A. Temp.(°C): 27 R.H. (%): 61 W.C.: Partly Sunny W.D.: NW to SE

Sample Receiving Date: 23-09-2023 Testing Started: 23-09-2023 Testing Ended: 27-09-2023

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³		BDL (MDL-0.18)
2.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m ³		BDL(MDL-1.8)
3.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	µg/m³		BDL (MDL- 0.06)

----End of Report----

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Quality Checked by Authorized Signatory
Character of the charac
Shi A Tolland
(Shreya Sonal) (Dr. S. C. Jain)
Dy. Quality Manager Director







Jharkhand State Pollution Control Board, JSPCB Accredited by National Accreditation Board for Testing Laboratory (NABL) vide TC-11515 Certified By

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



Test Report

ULR No.:	Т		1	1	5	1	5	2	3	0	0	0	0	0	1	3	0	6
			1 1	1		1		12							A I-:			
Discipline: Chemical Group: Atmosphe													Sub-G			ent All		
Report Issue Date: 30-09-2023									Test	Repo	rt No.	:RN	-23032	0001A	15			
Sample ID: 2309	23AP	0200	2						Samp	ole De	escrip	tion:	Ambie	nt Air				
Challan No./P.O.	. No.:	3030	000645	57			1-2		Chall	an Da	ate/P.	0. D	ate.: 06	5-12-2	022			
						RAL RE				D.								
VILL	PAD	MPU	JR, PC			RAL RE KANDI			02					14	l l 1			
VILL Type of Industry	PAD : Pow	MPU er Pla	JR, PO						02 Cust	ome			itative:					
VILL Type of Industry Sample Drawn b	PAD : Pow by: IE	er Pla M Te	JR, PC ant am	GCIL	.S/S,	KANDI	RA-8	33240	02 Cust Samp	omer oling	Date:		i tative: 9-2023					
VILL Type of Industry	PAD : Pow by: IE	er Pla M Te	JR, PC ant am	GCIL	.S/S,	KANDI	RA-8	33240	02 Cust Samp	omer oling	Date:							
VILL Type of Industry Sample Drawn b	PAD: Pow by: IE Guidel	MPU er Pla M Te ine(N	JR, PC ant am NAAQN	AS/36	. S/S ,	KANDI	RA-8	33240	02 Cust Samp	omer oling	Date:							
VILL Type of Industry Sample Drawn b Protocol: CPCB G	PAD : Pow by: IE Guidel on: Ch	er Pla M Te Ine(N	JR, PC ant eam JAAQN ea (Co	AS/36	. S/S , 6/201	KANDI	RA-8	ethod	02 Cust Samp	omer oling Serie	Date:	22-0		to 23	-09-20		to SE	

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	μg/m ³	100	78.1
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m³	60	28.0
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	8.9
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m³	80	24.2
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m³	400	22.2
6.	OZONE (O ₃)	IS 5182 Part 09	μg/m ³	100	6.6
7.	ARSENIC (as As)	USEPA I.O. 3.2	ng/m ³		BDL (MDL-02)
8.	LEAD (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.26
9.	NICKEL (Ni)	IS 5182 Part 26	ng/m ³		BDL (MDL-4)

----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: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD.	No.
3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue	Chapter 18/
Total liability of Institute for Environmental Management will be limited to invoiced amount only.	3
In case of feedback/ complaints, please send an email at <u>qm.iemeco@gmail.com</u>	(Shreya Sonal) (Dr. S/C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director



Accredited by Jharkhand State Pollution Control Board, JSPCB

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



Test Report

Group: Atmospheric Pollution	Sub-Group: Ambient Air	
Test Report No	.: RN-230320001A5	
Sample Descri	Sample Description: Ambient Air	
Challan Date/F	P.O. Date.: 06-12-2022	
	Test Report No Sample Descri	

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: 22-09-2023 to 23-09-2023

Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series

Sampling Location: CHP Area (Core Zone)

Field Meteorological Information A. Temp.(°C): 27 R.H. (%): 61 W.C.: Partly Sunny W.D.: NW to SE

Sample Receiving Date: 23-09-2023 Testing Started: 23-09-2023 Testing Ended: 27-09-2023

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³	<u> </u>	BDL (MDL-0.18)
2.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m³		BDL(MDL-1.8)
3.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	µg/m³		BDL (MDL- 0.06)

----End of Report----

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
 The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. Any complaint about this report should be communicated in writing within 7 days of its issue Total liability of Institute for Environmental Management will be limited to invoiced amount only. 	Shappan Sh
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director







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	1	3	0	7
Discipline: Chemical Group: Atmosphe						heric Pollution Sub-Group: Ambient Air								
Report Issue Date: 30-09-2023						Test Report No.: RN-230320001A6								
Sample ID: 230923AP02003		100			Samp	ole D	escrip	tion:	Ambie	nt Air				
Challan No./P.O. No.: 30300064	57		100		Chall	an D	ate/P	O. Da	te.: 06	5-12-2	022		1, 20	
ADHUNIK POWER VILL PADMPUR, P						D.								
ADHUNIK POWER VILL PADMPUR, P					102							. S		
ADHUNIK POWER VILL PADMPUR, P Type of Industry: Power Plant					02 Cust	omei			tative					
ADHUNIK POWER VILL PADMPUR, P Type of Industry: Power Plant Sample Drawn by: IEM Team	GCILS	S/S,	KANDRA	\-83 2 4	Cust	ome	Date:		tative:					
ADHUNIK POWER VILL PADMPUR, P Type of Industry: Power Plant Sample Drawn by: IEM Team	GCILS	S/S,	KANDRA	\-83 2 4	Cust	ome	Date:							
ADHUNIK POWER VILL PADMPUR, P Type of Industry: Power Plant Sample Drawn by: IEM Team Protocol: CPCB Guideline(NAAQ	GCILS MS/36/	/201	KANDRA	\-83 2 4	Cust	ome	Date:							
ADHUNIK POWER VILL PADMPUR, P Type of Industry: Power Plant	MS/36/	/201 /201	KANDRA	Metho	Cust	omei oling Serie	Date:	22-09		to 23	-09-20		o SE	

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	μg/m ³	100	82.3
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m³	60	31.8
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m³	80	13.0
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	μg/m³	80	25.9
5.	Ammonia (NH ₃)	IS 5182 Part 25	μg/m ³	400	23.2
6.	OZONE (O ₃)	IS 5182 Part 09	μg/m ³	100	6.9
7.	ARSENIC (as As)	USEPA I.O. 3.2	ng/m ³		BDL (MDL-02)
8.	LEAD (as Pb)	IS 5182 Part 22	µg/m³	1.0	0.27
9.	NICKEL (Ni)	IS 5182 Part 26	ng/m ³		BDL (MDL-4)

----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: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
The laboratory accepts responsibility for content of this report.	V 3(00) (00) (0)
This report shall not be reproduced except in full, without written approval of the MD.	
This report is intended for only guidance and not for legal purpose or for advertisement.	C) worth
4. Any complaint about this report should be communicated in writing within 7 days of its issue	Shara
5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr/S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report	Dy. Quality Manager Director
is issued by the Director of the Organization.	Dy. Quality Manager
	1.810



Accredited by Jharkhand State Pollution Control Board, JSPCB

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



Test Report

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air		
Report Issue Date: 30-09-2023	Test Report	Test Report No.: RN-230320001A6		
Sample ID: 230923AP02003	Sample Des	cription: Ambient Air		
Challan No./P.O. No.: 3030006457	Challan Dat	e/P.O. Date.: 06-12-2022		
loound to:				

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: 22-09-2023 to 23-09-2023
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series

Sampling Location: Near DM PLANT (CZ)

Field Meteorological Information A. Temp.(°C): 27 R.H. (%): 61 W.C.: Partly Sunny W.D.: NW to SE

Sample Receiving Date: 23-09-2023 Testing Started: 23-09-2023 Testing Ended: 27-09-2023

----Test Results----

SI. No.	Parameters	Test Method No.	Unit	Norms as per NAAQS - 2009	Results
1.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m³		BDL (MDL-0.18)
2.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m ³		BDL(MDL-1.8)
3.	BENZENE (C ₆ H ₆₎	IS 5182 Part 11	μg/m ³		BDL (MDL- 0.06)

----End of Report----

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

Tested By: Neema Kumari

Sample Drawn By: Rajiv Kumar Singh & Team

Specific Contractual Notes: -	Quality Checked by Authorized Signatory
 The laboratory accepts responsibility for content of this report. 	
This report shall not be reproduced except in full, without written approval of the MD.	
This report is intended for only guidance and not for legal purpose or for advertisement.	C word
4. Any complaint about this report should be communicated in writing within 7 days of its issue	Shirt I g
5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	
6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com	(Shreya Sonal) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Dy. Quality Manager Director
is issued by the Bhotter of the Organization.	- Catalogue - Cata







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

01.12.2022

Office Order

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

Roles & Responsibility of Environment Cell

Following the broad scope of the Cell

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

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

CORPORATE OFFICE: "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.adhunikgroup.com



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

01.12.2022

Annexure I

Responsibilities of the members of the environment management cell

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

DGM(HR)

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.adhunikgroup.com



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

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

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

REGD. OFFICE

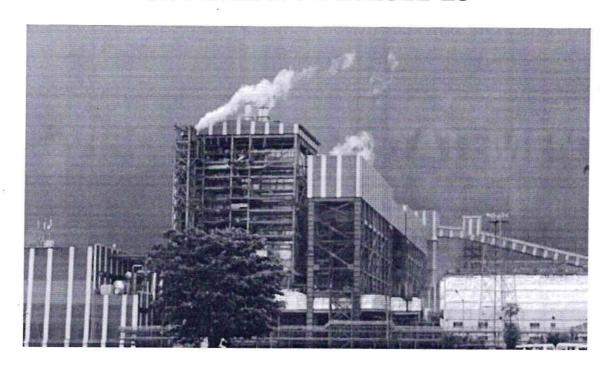
: 14, N. S. Road, 2nd Floor, Kolkata - 700 001, Phone No. +91 - 33 - 22428551, 22428553

Website : www.adhunikpower.com

ENVIRONMENTAL STATEMENT

For
1 X 270 MW COAL BASED THERMAL POWER PLANT
(UNIT 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

Sh. G.D. Agarwal

Industry operation or process

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)

19th 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 2021-22	During the current financial year 2022-23					
Electricity 270 MW Per Hour	0.210 KI	0.223 KI					

(ii) Raw Material Consumption

Name of Raw Materials	Name of product		material per unit of Il 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 BOD₅ < 30 mg/l COD < 250 mg/l	plant, IBD tank, CF utilized in HCDC sy 2) Effluent generated	d from CBD is being ching & dust suppression	Concentration are below the prescribed limits. ETP & STP analysis report are enclosed as Annexure I
(ii) Air(Stack) PM SO2 NOx	805.2 Kg/Day 28107.0 Kg/Day 8739 Kg/Day	36.55 mg/Nm3 1275.9 mg/Nm3 396.7 mg/Nm3	Concentration are below the prescribed limits. Stack monitoring report are enclosed as Annexure II

Refer to MoEF notification dated 07.12.2015 and amendementto, 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	During the current financial Year							
		2021-2022	2022-2023							
1	From Process	Used Oil- 3.135 Kl	Used Oil- 5.016 Kl							
		Waste Oil- 1.672 Kl	Waste Oil- 1.671 Kl							
2	From Pollution	0 KL	0 KL							
	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

	Total Quar	ntity (MT)
e .	During the previous financial Year	During the current financial Year 2022-2023
 (a) From Process Bottom Ash (b) From Pollution Control Facility Fly ash (c) (1) Quantity recycled or re-utilized within the unit 	95261 MT 539810 MT	72964 MT 413461MT
(2) Sold(3) DisposedFly AshBottom 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 tippling 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:

- 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 Designation Address

Kamlesh Kumar

Sr. Manager- Environment
Adhunik Power & Natural Resources

Limited, Village : Padampur Dist: Saraikela-Kharsawan –

832 402. Jharkhand



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.:	т	C	1 1	1	5	1	5	2	3	0	0	0	0	0	0	0	4	6
Discipline: Chem	nical		100	G	roup:	Pollut	ion &	Envir	onme	nt		Su	b-Gro	up: V	Vaste	Wate	•	
Report Issue Da		-03-2	023			K-1	扩				ort N	o.: RN	-2303	20001	WWC	1		
Sample ID: 2303					17.76	- AL 10	J.					iption						
Challan No./P.O					2306	7 6			Ch	allan	Date/	P.O. D	ate.:	06-12	-2022			
VILL Type of Industry	OR .		JR, PG	CIL	5/5,	KAND	KA-8			mer F	Repre	senta	tive:	Kamle	sh Jha	a		
Sample Drawn	A STATE OF THE PARTY.			2010	500							8-03-2						
Protocol: CPCB	-37			nod 3	3025	Part-01	1											
Sampling Locati				TAL.														
Field Meteorolo			The second secon	- 4	A. Ter	np.(°C): 28	R.H	. (%):	61	W.C	.: Clea			/.D.: N			
Sample Receiving		(1. Phys. 2014)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		Testing	g Star	ted: 2	9-03-	2023		Test	ing E	nded:	31-03	-2023		

SI. No.	Tested Parameters	Unit	Method No.	Limits	Results
1.	pH value at 25°C	A	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

Env. Condition of Lab.

Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).

Abbreviation MDL: Minimum Detection Limit, BDL: Below Detection Limit

Limit is Specified As per the Environmental (Protection) Rule – 1986

Remark Sample Comply with prescribed specification.

Tested By: Punya Harsit Dadel

Sample Drawn By: Rahul Kumar Singh & Team

Specific Contractual Notes:
1. The laboratory accepts responsibility for content of this report.

2. This report shall not be reproduced except in full, without written approval of the MD.

3. This report is intended for only guidance and not for legal purpose or for advertisement.

4. Any complaint about this report should be communicated in writing within 7 days of its Issue

5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.

6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com

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

Quality Checked byonment, Authorized Signatory

(Shreya Summent)

Quality Checked byonment

Authorized Signatory

(Shreya Summent)

Director





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	7
Discipline: Chemical	Group:	Pollution 8	Envir	onmen	t		Sul	o-Gro	up: V	Vaste	Wate		
Report Issue Date: 31-03-2023		W.		Test	Rep	ort No	.: RN-	2303	20001	WWC	12		
Sample ID: 230330PE02001		A 8	- E	and the second second		Descri							
Challan No./P.O. No.: 3030006457	4	7 67 6	4	Cha	llan I	Date/P	.O. D	ate.: (06-12-	-2022		55	
VILL PADMPUR, PGC Type of Industry: Power Plant	LS/S,	KANDRA-		Custon	ner F	Repres	entat	ive: h	Kamle	sh Jha	3		
Sample Drawn by: IEM Team	100			Samplii			100 miles	History VIII	ui .	rest.			
Protocol: CPCB Guideline& IS Metho	d 3025	Part-01			in the								
Sampling Location: ETP Outlet	9					Bar.		1 25	.,				
Field Meteorological Information	A. Ter	np.(°C): 28	R.H	. (%): 6	51	W.C.	Clear				IE - SI	-	
Sample Receiving date: 29-03-2023	10000	Testing Sta	rted: 2	9-03-2	023		Testi	ng En	ded:	31-03	-2023		

		1est	Result		
SI. 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	alla de la c elebra	BDL (MDL - 0.04)

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

Quality Checked by **Authorized Signatory** Specific Contractual Notes: nmental 1. The laboratory accepts responsibility for content of this report. This report shall not be reproduced except in full, without written approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only. Jain) (Shreya Sona 6. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report Director Dy. Quality Manag is issued by the Director of the Organization.





Accredited by Jharkhand State Pollution Control Board, JSPCB

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



Test Report

Test Report	t No.: RN-230320001WW02		
Sample Description: Waste Water (ETP)			
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

Sample Drawn by: IEM Team

Customer Representative: Kamlesh Jha

Sampling Date: 28-03-2023

Protocol: CPCB Guideline & IS Method 3025 Part-01

Certified by

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----

		Court		Mining the Control of
Tested Parameters	Unit	Method No.	Limits	Results
Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL (MDL - 4.0)
		APHA 3111 B.2017	3.0	0.96
	and the second second second	IS 3025 (Part-29)	- LVI	28
	Tested Parameters Oil & Grease Iron Temperature	Tested Parameters Oil & Grease Iron mg/l	Oil & Grease mg/l IS 3025 (Part-39) Iron mg/l APHA 3111 B.2017	Tested Parameters Unit Method No. Limits Oil & Grease mg/l IS 3025 (Part-39) 10 Iron mg/l APHA 3111 B.2017 3.0 Is 3025 (Part-29) IS 3025 (Part-29) Is 3025 (Part-29)

----End of Report----

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

Tested By: Punya Harsit Dadel

Sample Drawn By: Rahul Kumar Singh & Team

Specific Contractual Notes: -

1. The laboratory accepts responsibility for content of this report.

This report shall not be reproduced except in full, without written approval of the MD.

This report is intended for only guidance and not for legal purpose or for advertisement.
 Any complaint about this report should be communicated in writing within 7 days of its issue

5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.

In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com
 On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report

is issued by the Director of the Organization.

Quality Checked Mission Men Appropriated Signatory

(Shreya Sona Va

Dy. Quality Manage

S. C. Jain)

Director

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

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

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





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	3
Discipline: Chemical	7		Grou	p: Atmo	spheric	Pollut	ion		Sub-G	roup:	Stack	Emiss	on	
Report Issue Date: 31-03-2023	3			D.					RN-230					
Sample ID: 230330AP05002		d	A .	e priilis					n: Stac					and the second
Challan No./P.O. No.: 3030000	6457	1		4.4	C	hallan	Date,	/P.O.	Date.:	06-12	2-2022	2		
Issued to: ADHUNIK POWE	R & N/					D.						N. N.		
Issued to: ADHUNIK POWE VILL PADMPUR,	R & N/				402) [*]	ner Ro	enres	sentativ	∕e: Ka	amlest	n Jha		
Issued to: ADHUNIK POWE VILL PADMPUR, Type of Industry: Power Plant	R & N/ PGCIL t				402 C	uston			sentativ 2-03-20		amlest	n Jha		
ADHUNIK POWE VILL PADMPUR, Type of industry: Power Plant Sample Drawn by: IEM Team	R & N/ PGCIL t	_S/S,	KANDF	RA-832	402 C	uston ampli			sentativ 2-03-20		amlest	n Jha		
Issued to: ADHUNIK POWE VILL PADMPUR, Type of Industry: Power Plant	R & NA PGCIL t	S/S ,	KANDF	RA-832	402 C	uston ampli eries	ng Da	te: 1	2-03-20	023	W.D	.; NE -	-	

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	ALC: WE VENE
Sampling Port	Available	Pollution Control Device (if any)	ESP

Test Result

SI. 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	W. W.
3.	Flue Gas Volumetric Flow Rate	IS 11255 (Part-3)	Nm³/hr.	917882.8	
4.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm³	36.55	50
5.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	mg/Nm³	1275.1	600
6.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	mg/Nm³	697.59	450
7.	Carbon Monoxide (CO)	IS 13270:1992	%	BDL(MDL-0.2)	July 222

Dust	Kg/hr	33.55
Sulphur Dioxide	Kg/hr	1170.39
Oxide of Nitrogen	Kg/hr	640.31
	End of Report	BOOK STREET AND STREET

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

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr. Singh & team

Specific Contractual Notes: 1. The laboratory accepts responsibility for content of this report. 2. This report shall not be reportly accept in full without written.

- 2. This report shall not be reproduced except in full, without written approval of the MD.
- 3. This report is intended for only guidance and not for legal purpose or for advertisement.
- 4. Any complaint about this report should be communicated in writing within 7 days of its issue
- 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.

In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com
 On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

(Shreya Sonal)

Dy. Quality Manage + Reactil Director





Accredited by Jharkhand State Pollution Control Board, JSPCB

ISO 9001:2015 (Quality Management System)

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



Test Report

Discipline: Chemical	Group: Atn	Group: Atmospheric Pollution		Sub-Group: Stack Emission		
Report Issue Date: 31-03-2023				Test Report No.: RN-230320001S2		
Sample ID: 230330AP05002	Sample D	escription	: Stack Emission			
Challan No./P.O. No.: 3030006457	Dept. No.	Challan D	Date/P.O.	Date.: 06-12-2022		
ADHUNIK POWER & NA						
VILL PADMPUR, PGCIL		2402	or Penrese	entative: Kamlesh Iha		
ADHUNIK POWER & NA VILL PADMPUR, PGCIL Type of Industry: Power Plant		2402 Custome		entative: Kamlesh Jha		
ADHUNIK POWER & NA VILL PADMPUR, PGCIL Type of Industry: Power Plant Sample Drawn by: IEM Team	.S/S, KANDRA-83	2402 Custome Sampling	er Represe g Date: 12			
ADHUNIK POWER & NA VILL PADMPUR, PGCIL	.S/S, KANDRA-83	Custome Sampling 11255 Series		-03-2023		

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	4 Tab
Sampling Port	Available	Pollution Control Device (if any)	ESP

Test Result

SI. No.	Parameters	Test Methods	Unit	Result	Limits
1.	Flue Gas Temperature	IS 11255 (Part-3)	°K	387	12.5h
2.	Flue Gas Velocity	IS 11255 (Part-3)	m/s	24.2	
3.	Flue Gas Volumetric Flow Rate	IS 11255 (Part-3)	Nm³/hr.	917882.8	4.00
4.	Mercury (Hg)	(LATS/80/2013-2014)	mg/Nm³	BDL(MDL-0.03)	0.03

	End of Report
Env. Condition of Lab.	15 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	
Remark	

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Kr. Singh & team

Specific Contractual	Notes: -

1. The laboratory accepts responsibility for content of this report.

2. This report shall not be reproduced except in full, without written approval of the MD.

3. This report is intended for only guidance and not for legal purpose or for advertisement.

4. Any complaint about this report should be communicated in writing within 7 days of its issue

5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.

i. In case of feedback/ complaints, please send an email at qm.iemeco@gmail.com

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

Quality Checked by Authorized Signatory

(Shreya Sonal Special Carlot C. Jain)

Dy. Quality Manage * Randii * Director







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

Ref: MOE&F, RNC/HYC/KKJ/29523/02

Dated: 29.05.2023

To.

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

Sub:- Submission of Half yearly compliance status report (Unit II) for the period - October 2022 to March 2023 -Reg.

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

Sir,

With reference to the above referred Environmental Clearance, we are pleased to submit herewith the half yearly compliance status report (Unit II) for the period of October 2022 to March 2023.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

(Authorized)Signatory)

Encl: As Above

Copy to:

1. Central Pollution Control Board, Kolkata

2. Member Secretary, Jharkhand State Pollution Control Board, Jharkhand

Regional Officer, JSPCB, Jamshedpur



skmahls 31/05/23

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