



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/271121/02

Dated: 27.11.2021

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 - April 2021 to September 2021 -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 2021 to September 2021

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

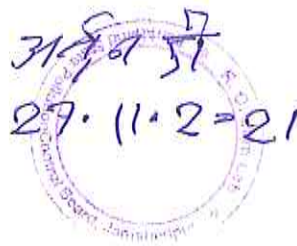


(Authorized Signatory)

Encl: As Above

Copy to:

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



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Website : www.adhunikpower.com

REPORT

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



APRIL 2021 – SEPTEMBER 2021

**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 2021 to September 2021		
Sl No	EC Conditions	Status as on 30st September 2021
A. Specific Conditions:		
i.	Environmental clearance for the proposed 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.	Noted
ii.	The Ministry had issued a draft Notification on 30 th March, 2011 vide S.O. 691(E) under the Environment (Protection) Act, 1986 notifying the areas upto 5 km from the boundary of the protected area of Dalma Wildlife Sanctuary in the State of Jharkhand as the Eco-sensitive Zone. The necessity of 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.	As per notification date 29 th March 2012 project boundary are beyond the stipulated distance from the boundary of the protected area of Dalma Wildlife Sanctuary in the State of Jharkhand as the Eco-sensitive Zone. Notification regarding nearest distance from Dalma wildlife sanctuary enclosed as Annexure I. Complied
iii.	Wildlife conservation plan shall be implemented during the development of project itself and the status of implementation shall be submitted to the Ministry from time to time.	The Wild Life Management Plan (WLMP) has prepared already been approved by PCCF, Ranchi on May'10.2010. Complied
iv.	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Vision document report has submitted at MoEF on 30 th Dec 2011. Complied
v.	Possibility for harnessing solar power within the premises of the plant (particularly at available roof tops) shall be examined and status of implementation shall be submitted.	Installation of solar light system in all vulnerable area are completed.
vi.	Transport of coal shall be by rail only. The project proponent shall accordingly take up the matter with the Railways. Status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	As per the Environment (Protection) Amendment Rules, 2020 dated 21 May 2020, Transport of coal by covered trucks, has been permitted.
vii.	A study shall be undertaken by an 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 months.	Water sustainability report has been prepared by IIT Kharagpur. Report was already submitted to MoEF BBS dated 11.11.11. Complied

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
x.	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 2021 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 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 2021 are enclosed as Annexure II. Regular monitoring of ground water level are

	so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	done through Piezometer installed at following locations: 1. 22°50'20.9"N 86°03'27.4"E 2. 22°50'23.1"N 86°03'39.7"E 3. 22°50'09.5"N 86°03'48.1"E 4. 22°49'50.0"N 86°03'37.9"E Photographs of installed Piezometers are enclosed as Annexure III .
xviii.	Monitoring surface water quality in the area shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Ground water analysis report of upstream & Downstream of Ash pond and Surface Water Analysis report for the month of September 2021 are enclosed as Annexure II & Annexure IV respectively.
xix.	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved. The leveling in plant area should be minimum with no or minimal disturbance to the natural drainage of the area.	Complied.
xx.	Provision for installation of FGD shall be provided for future use	FGD space is available on site for future use.
xxi.	The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.	Effective provision for dust suppression system has been strictly implemented at all dust prone areas such as road, coal stock yard, Truck tippler, Ash pond & others areas. Fugitive emission could not be occurred due to nature of wet condition of bottom ash. However additional arrangement of water sprinkling has been implemented in case of emission occurs. In addition, 03 No Water tankers are deployed for dust suppression.
xxii.	Stacks of 275 m height shall be installed and provided with continuous online monitoring equipments for SO _x , NO _x and PM _{2.5} & PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	Twin flue chimney of 275m height has constructed for proper dispersion of flue gases. Online monitoring equipment has installed at chimney. Hg concentration is well within prescribed limits. Complied
xxiii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	High efficient ESPs of 32 fields have installed to ensure control PM emission in flue gas. Stack Monitoring report from For the month of September 2021 are enclosed as Annexure V.
xxiv.	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Necessary mitigation measures in accordance with EMP and EC conditions has taken to control fugitive emissions from ash storage/transfer and coal handling plant such as installation and operation of bag filters collectors, use of water spray systems and enclosed conveyors with well designed, extraction and filtration equipment on transfer points. Complied

xxv.	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Agreements made with cement plants, brick plants, etc to ensure optimum utilization of fly ash. Fly Ash generation & Utilization report (April 2021 to September 2021) are enclosed as Annexure VI . Utilization of 100% Fly Ash generated has been achieved.
xxvi.	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As,Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	02 No Silos has Constructed to storage of fly ash. Monitoring of mercury and other heavy metals (As, Hg, Cr, Pd etc.) in the bottom ash and also in the effluents emanating from the ash pond is being done periodically. Bottom ash analysis report & effluent analysis report of ash pond For the month of September 2021 are attached as Annexure VII & Annexure VIII respectively.
xxvii.	Ash pond shall be lined with HDPE/LDPE 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.	Complied.
xxviii.	For disposal of Bottom Ash in abandoned 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 Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity	Not Applicable.
xxix.	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.6 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MOEF for suitable amendments to environmental clearance condition wherever necessary.	The Sulphur content in used coal conforms the limits. As per the Environment (Protection) Amendment Rules, 2020 dated 21 May 2020, Use of coal by Thermal Power Plants, without stipulations as regards ash content or distance shall be permitted.
xxx.	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 75 m width shall be raised. The density of tree shall not less than 2500 per ha and survival rate not less than 80 %.	A thick green belt of adequate width is being developed.68123 nos. (Area covered-30.9 Hac) of plantation has been completed in and outside along the periphery of the power plant to arrest any dust emissions and help in attenuation of noise. Total Survival rate of Plant are 85.6 %. Name of Plant Species- Neem, Seesam, Mango, Jamun etc.
xxxi.	Over and above the green belt, as carbon sink, social forestry shall be carried out in close consultation with the Forests 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	Letter has been submitted to Forest Department for guidance on implementation of social forestry.

	the Ministry within six months.	
xxxii.	At least three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.	APNRL has adopted villages - Barahariharpur - Padampur - Srirampur CSR is also providing the facilities in following villages - Pindrabera - Chotahariharpur - Ramjivanpur - Bikanipur etc. Details of CSR activity enclosed as Annexure IX.
xxxiii.	The project proponent shall also adequately 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.	Details of CSR activity enclosed as Annexure IX.
xxxiv.	A time bound implementation of the CSR shall be formulated within six months and submitted to the Ministry. CSR schemes shall be undertaken based on need 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 undertaken.	List of local employed youth enclosed as Annexure X. Complied
xxxv.	For the tribal families (if any) living in the area within 5.0 Km of site, affected directly or indirectly by the proposed project, specific schemes for upliftment of their sustainable livelihood shall be prepared with time bound implementation and in-built monitoring programme. The status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	CSR activities are being carried out in the surrounding villages keeping in mind the upliftment of tribal families. Details of CSR activity enclosed as IX .
xxxvi.	An amount of Rs 23.70 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring 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.	We have submitted copy of capital cost & year wise recurring expenditure on CSR activities to MoEF &CC, Ranchi Office on 05.12.2018. Complied.
xxxvii.	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got	All CSR activities are monitored on weekly and monthly basis. We have conducted social audit through renowned

	done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time	organization who are well aware about Social Audit in Jharkhand region. Copy of Social audit shall be submitted shortly.
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B. General Conditions:

i.	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not do not get mixed.	Complied. Treated effluent analysis report of ETP from For the month of September 2021 are enclosed as Annexure XI. Adequate and separate drainage structures has 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 Kl 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.	The design of coal yard along with provision of fire safety measures viz. fire hydrants, water sprinklers has installed. Complied
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 15/12/2011. License No. P/HQ/JH/15/1065 (P257355), valid upto 31.12.2022 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 emergencies/risks identified.
v.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	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	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

	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	workers and records is being maintained. Noise level monitoring report For the month of September 2021 are enclosed As Annexure XIV.
vii.	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Ambient Air monitoring reports carried out by NABL accredited Laboratory for the month of September 2021 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.	Plant is in operational condition and local labors are 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
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.
xi.	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	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.

	environmental regulations and social impact improvement/mitigation measures.	
xii.	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM _{2.5} & PM ₁₀), SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	The updated compliance status of the stipulated EC conditions along with monitored data has been uploaded on the company website. The monitoring data (SPM, RSPM, SO₂, NO_x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. Compliance status of the stipulated EC conditions has been uploaded on company website and hard copy of same has been submitted for the period of April 2020 to September 2020 in office of MoEF, Ranchi & CPCB office, Kolkata along with monitored data.
xiii.	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	The last environmental statement for financial year (2020-21) in Form V has submitted to JSPCB dated 20th Sep 2021. Acknowledgement copy of same attached as Annexure XVII. Environment Statement (2019-20) has been uploaded on company website.
xiv.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State 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 to the Regional Office, Ministry of Environment and Forests	Last six monthly reports for the project along with environmental monitoring data submitted to MoEF RO at Ranchi office vide letter No MOE&F,RNC/HYC/KKJ/26521/02 ,dated 27th May 2021. Acknowledgement copy of same attached as Annexure XVIII.
xv.	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO _x (from stack & ambient air)	A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information already submitted to the Board. The updated compliance status of the stipulated EC conditions along with monitored data has been uploaded on the company website. The monitoring data (SPM, RSPM, SO₂, NO_x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company.

	shall be displayed at the main gate of the power plant.	
xvi.	Separate funds shall be allocated for 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.	Adequate budgetary provision has been made by the APNRL for execution of environmental management plan.
xvii.	The project authorities shall inform the 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	Complied
xviii.	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status	We ensure.

कार्यालय :- प्रधान मुख्य वन संरक्षक झारखण्ड, राँची।

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

सचिव,

वन एवं पर्यावरण विभाग,

झारखण्ड सरकार, राँची।

मैसर्स आधुनिक थर्मल एनर्जी लिमिटेड के कान्हा पदमपुर, श्री रामपुर, रामचन्द्रपुर मौजा, जिला-सरायकेला-खरसावा 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, राँची 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 :-

1. विषयक थर्मल पावर प्रोजेक्ट कान्हा 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 कि०मी० दूर स्थापित होगा। प्रस्तावित क्षेत्र की 10 कि०मी० त्रिज्या के अंदर अवस्थित वन भूमि सिंहभूम गज आरक्ष्य का भाग है।
3. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, राँची के द्वारा पावर प्रोजेक्ट के लिए प्रस्तावित स्थल को प्रस्तावित इको-सेंसिटिव जोन से सटा हुआ बताया गया है, जबकि 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 कि०मी० 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 कि०मी० से अधिक दूरी पर अवस्थित है। इसके अतिरिक्त कोई अन्य हाथी कोरीडोर प्रस्तावित

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क्षेत्र के पास पूर्व चिह्नित नहीं है। उपरोक्त गज-कोरीडोर को दिखाते हुए नक्शा (अनुलग्नक-2) दो प्रतियों में संलग्न है।

5. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची के द्वारा अपने प्रतिवेदन में यह उल्लेख किया गया है कि दलमा वन्यप्राणी आश्रयणी की दक्षिणी सीमा पर स्वर्णरेखा नहर की गहरी खोदाई के कारण इस क्षेत्र में हाथियों का आवागमन अनियमित है। उन्होंने यह भी वर्णित किया है कि आश्रयणी से हाथियों का आवागमन रामगढ़, एन0एच0-33, डोभी, कपालन, तमोलिया होते हुए पुनः आश्रयणी की ओर हो रहा है। पूर्व में यह पलना जलाशय तक होता था, जो वर्तमान में नहर की खोदाई के कारण बाधित है। इस संबंध में नक्शे की समीक्षापरांत यह पाया गया है कि यदि हाथियों का आवागमन पूर्ववत आश्रयणी से पलना जलाशय तक होता भी है तब भी प्रस्तावित स्थल ऐसे किसी आवागमन मार्ग के बीच में नहीं आयेगा। पलना जलाशय की लोकेशन को दर्शाते हुए एक नक्शा भी इस पत्र के साथ संलग्न किया जा रहा है जिससे स्पष्ट होगा कि यह जलाशय प्रस्तावित स्थल से लगभग 17 कि०मी०(उत्तर पूर्व) की दूरी पर अवस्थित है। प्रस्तावित स्थल होकर हाथियों का आवागमन होने की या कोई पूर्व-स्थापित गज-कोरीडोर होने की कोई ठोस सूचना/प्रमाण उपलब्ध नहीं है।
6. झारखंड राज्य में गज-कोरीडोर को चिह्नित करने का कार्य एक स्वयंसेवी संस्था 'वाइल्ड लाइफ ट्रस्ट ऑफ इण्डिया, नई दिल्ली' के द्वारा किया गया है। इस कार्य में झारखंड वन विभाग के द्वारा भी सहयोग किया गया था। उपरोक्त स्वयंसेवी संस्था द्वारा प्रकाशित 'Right of Passage- Elephant Corridors of India' नामक पुस्तक में झारखंड राज्य के लिए कुल 14 गज-कोरीडोर वर्णित है तथा इसी सूचना के आधार पर कड़िका चार में वर्णित तीन गज कोरीडोर को नक्शे पर दर्शाया गया है।
7. प्रस्तावित स्थल के आसपास कई अन्य उद्योग, यथा पावर ग्रिड कॉरपोरेशन ऑफ इण्डिया लि०, बी०के० स्टील आई०ओ०सी०एल०, टी०सी०एस०, उषा मार्टिन, नीलांचल स्टील, आदि स्थापित हैं। यह अनुलग्नक-3 पर दो प्रतियों में उपलब्ध नक्शे से स्पष्ट है। इस क्षेत्र में कई उद्योग होने के कारण भी इसे दलमा वन्यप्राणी आश्रयणी के प्रस्तावित इको-सेंसिटिव जोन से बाहर रखा गया था।
8. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची ने प्रस्तावित स्थल दलमा आश्रयणी एवं elephant bearing area के समीप होने के कारण हाथियों के आवागमन पर पड़ने वाले प्रतिकूल प्रभाव की संभावना बताते हुए प्रस्तावित परियोजना हेतु अनापत्ति प्रमाण-पत्र निर्गत नहीं करने की अनुशंसा की है। परंतु वन संरक्षक, वन्य प्राणी अंचल, रांची ने वन प्रमण्डल पदाधिकारी द्वारा अपने प्रतिवेदन में उठाए गये विभिन्न बिन्दुओं पर

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

9. प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची द्वारा अग्रलिखित शर्त पर संबंधित परियोजना हेतु एनओसी निर्गत करने की अनुशंसा की गई है कि EIA के ToR की शर्त 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 में 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।

अनु०-यथोक्त।

विश्वासभाजन,



प्रधान मुख्य वन संरक्षक,
झारखण्ड, रांची।

21/7



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
 Certified by :- An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	2
Discipline	Chemical	Group	Water			Sample Description						Ground Water						
Report Release Date		18 th October, 2021					Report ID						YBAEEL-210911-101515 – GW02					
W. Order/ JSPCB App. No.		3030005309					Work Order Date						27.02.2021					
Type of Industry(if any)		Thermal Power Plant					Job code/ Ref. no.						YBAEEL/WA/L/C/Sep-21/04					
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021					Mode of sample collection						By YBAEEL Team					
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003					Sample Code						210930-GW-E02					
Sampling Location		Hariharpur Bore well					Sampling Source						Ground Water					
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity						3000 ml					
Meteorological Cond. of Field		W.C.– Clear					RH % - 60						Temp. - 33 ^o C					
Sample receipt Date		30/09/2021		Analysis Started on			30/09/2021			Analysis completed on			12/10/2021					

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	6.63	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	<5	15
3.	Taste*	IS 3025 (P-07):	--	--	Agree.	Agreeable
4.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	464.0	--
5.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	102.0	600
6.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	164.0	600
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	200.0	2000
8.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	18.5	1000
9.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	0.3	1.5
10.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ ⁻ (B) 23 rd edition 2017	mg/l	11.33	12.07	45
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	45.6	200
12.	Magnesium (as Mg ²⁺)	IS 3025 (P-46):2003	mg/l	1.90	12.15	100
13.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	30.0	400
14.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.05
15.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	1.5
16.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.04	0.3
17.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01
18.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	0.18	15

Tested by Pem Kumar Lab Analyst	Verified by BrijNandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
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Branch Office :- Jamshedpur

Dhanbad

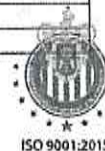
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ISO 45001:2018



ISO 9001:2015



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ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.				T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	2
Discipline	Chemical	Group		Water		Sample Description				Ground Water									
Report Release Date		18 th October, 2021				Report ID				YBAEEL-210911-101515 – GW02									
W. Order/ JSPCB App. No.		3030005309				Work Order Date				27.02.2021									
Type of Industry(If any)		Thermal Power Plant				Job code/ Ref. no.				YBAEEL/WA/L/C/Sep-21/04									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		30/09/2021				Mode of sample collection				By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				210930-GW-E02									
Sampling Location		Hariharpur Bore well				Sampling Source				Ground Water									
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear				RH % - 60				Temp. - 33°C									
Sample receipt Date		30/09/2021		Analysis Started on		30/09/2021		Analysis completed on				12/10/2021							

19.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003
20.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001
21.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	0.014	0.05

*****End of Report*****

Limit is specified as #	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Pem Kumar Lab Analyst	Verified by BrijNandan Kumar Section In-Charge	Authorized Signatory Chemical Section	Issued by Umesh Des Technical Manager
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Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

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ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	4	0	0	0	0	0	5	8
Discipline	Biological	Group		Water			Sample Description				Ground Water							
Report Release Date		18 th October, 2021					Report ID				YBAEEL-210911-101515 – GW02							
W. Order/ JSPCB App. No.		3030005309					Work Order Date				27.02.2021							
Type of Industry(If any)		Thermal Power Plant					Job code/ Ref. no.				YBAEEL/WA/L/M/Sep-21/03							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. VIII.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021					Mode of sample collection				By YBAEEL Team							
Sampling Protocol		IS : 1622:1982, R - 2019					Sample Code				210930-GW-E02							
Sampling Location		Hariharpur Bore well					Sampling Source				Ground Water							
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				250 ml							
Meteorological Cond. of Field		W.C.– Clear					RH % - 60				Temp. - 33°C							
Sample receipt Date		30/09/2021		Analysis Started on			04/10/2021			Analysis completed on				06/10/2021				

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	
3.	E coli	APHA 9221-F 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	

*****End of Report*****

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Madhuri Sinha Lab Analyst	Verified by Mukesh Kumar Section In-Charge Microbiological & Analytical	Authorized Signatory Issued by Umesh Das Technical Manager
Branch Office :- Jamshedpur	Dhanbad	Pakur



ISO 45001:2018

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ISO 9001:2015



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Accredited by: - Jharkhand State Pollution Control Board (JSPCB)
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ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	1
Discipline	Chemical	Group	Water			Sample Description					Ground Water							
Report Release Date		18 th October, 2021				Report ID					YBAEEL-210911-101515 – GW01							
W. Order/ JSPCB App. No.		3030005309				Work Order Date					27.02.2021							
Type of Industry(If any)		Thermal Power Plant				Job code/ Ref. no.					YBAEEL/WA/L/C/Sep-21/04							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021				Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code					210930-GW-E01							
Sampling Location		Srirampur Bore well				Sampling Source					Ground Water							
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity					3000 ml							
Meteorological Cond. of Field		W.C.– Clear				RH % - 60					Temp. - 33°C							
Sample receipt Date		30/09/2021		Analysis Started on			30/09/2021			Analysis completed on				12/10/2021				

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	6.67	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	10.0	15
3.	Taste*	IS 3025 (P-07):	--	--	Agree.	Agreeable
4.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	534.0	--
5.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	186.0	600
6.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	178.0	600
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	248.0	2000
8.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	20.0	1000
9.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	0.6	1.5
10.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ ⁻ (B) 23 rd edition 2017	mg/l	11.33	2.5	45
11.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	56.0	200
12.	Magnesium (as Mg ²⁺)	IS 3025 (P-46):2003	mg/l	1.90	9.23	100
13.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	14.1	400
14.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.05
15.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	1.5
16.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.02	0.3
17.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01
18.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	0.17	15

Tested by Pam Kumar Lab Analyst	Verified by BrijNandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
---------------------------------------	--	--	---

Branch Office :- Jamshedpur

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Hazaribagh

Pakur

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ISO 45001:2018



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
 Certified by :- An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	1
Discipline	Chemical	Group	Water			Sample Description				Ground Water								
Report Release Date		18 th October, 2021				Report ID				YBAEEL-210911-101515 – GW01								
W. Order/ JSPCB App. No.		3030005309				Work Order Date				27.02.2021								
Type of Industry(if any)		Thermal Power Plant				Job code/ Ref. no.				YBAEEL/WA/L/C/Sep-21/04								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021				Mode of sample collection				By YBAEEL Team								
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				210930-GW-E01								
Sampling Location		Srirampur Bore well				Sampling Source				Ground Water								
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml								
Meteorological Cond. of Field		W.C.– Clear				RH % - 60				Temp. - 33°C								
Sample receipt Date		30/09/2021		Analysis Started on			30/09/2021			Analysis completed on			12/10/2021					

19.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003
20.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001
21.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05

*****End of Report*****

Limit is specified as #	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by	Verified by	Issued by
Pem Kumar	Brijnandan Kumar	Umesh Das
Lab Analyst	Section In-Charge	Technical Manager

Branch Office :- Jamshedpur

Dhanbad

Yugantar Bharati Analytical & Environmental Engineering Laboratory

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ISO 45001:2018



ISO 9001:2015



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Certified by: - An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.			T	C	7	8	1	3	2	1	4	0	0	0	0	0	5	7
Discipline	Biological	Group		Water			Sample Description				Ground Water							
Report Release Date		18 th October, 2021					Report ID				YBAEEL-210911-101515 – GW01							
W. Order/ JSPCB App. No.		3030005309					Work Order Date				27.02.2021							
Type of Industry (If any)		Thermal Power Plant					Job code/ Ref. no.				YBAEEL/WA/L/M/Sep-21/03							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021					Mode of sample collection				By YBAEEL Team							
Sampling Protocol		IS : 1622:1982, R - 2019					Sample Code				210930-GW-E01							
Sampling Location		Srirampur Bore well					Sampling Source				Ground Water							
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				250 ml							
Meteorological Cond. of Field		W.C.– Clear					RH % - 60				Temp. - 33°C							
Sample receipt Date		30/09/2021		Analysis Started on			04/10/2021			Analysis completed on				06/10/2021				

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	
3.	E coli	APHA 9221-F 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	

*****End of Report*****

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples Comply with prescribed limits

Tested by Madhuri Sinha Lab Analyst	Verified by Mukesh Kumar Section In-charge	Issued by Umesh Das Technical Manager
---	--	---

Branch Office : - Jamshedpur | Dhanbad | Hazaribag & Pakur

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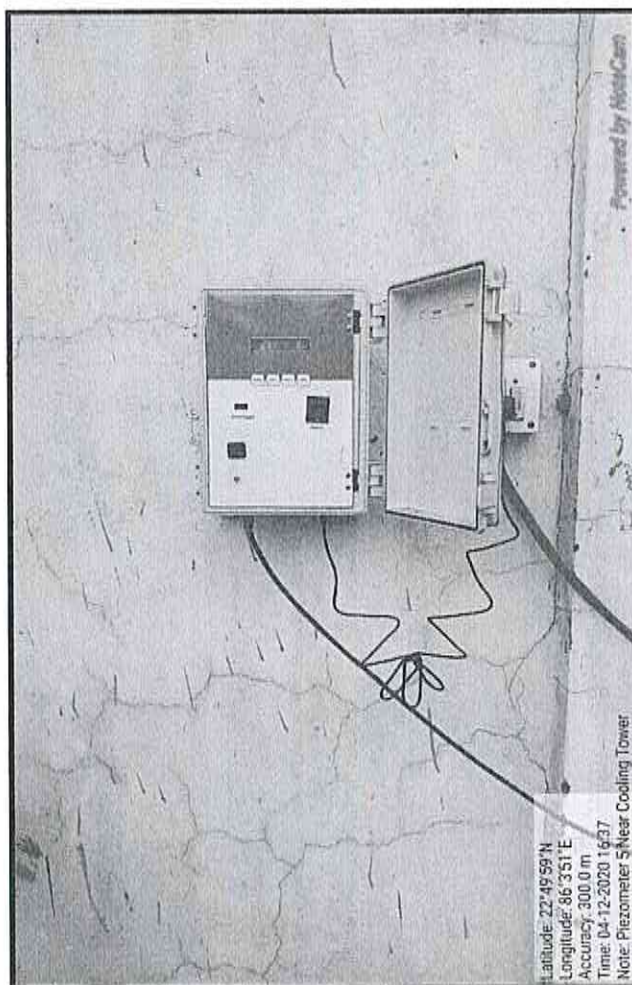


ISO 45001:2018



ISO 9001:2015

Piezometer At Plant premises





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ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.				T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	3
Discipline	Chemical	Group	Water			Sample Description				Surface Water									
Report Release Date		18 th October, 2021				Report ID				YBAEEL-210911-101515 – SW01									
W. Order/ JSPCB App. No.		3030005309				Work Order Date				27.02.2021									
Type of Industry (If any)		Thermal Power Plant				Job code/ Ref. no.				YBAEEL/WA/L/C/Sep-21/03									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		30/09/2021				Mode of sample collection				By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				210930-SW-E01									
Sampling Location		Hariharpur Pond				Sampling Source				Surface Water									
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear				RH % - 60				Temp. - 33°C									
Sample receipt Date		30/09/2021		Analysis Started on		30/09/2021		Analysis completed on		12/10/2021									

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	7.29	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	25.0	--
3.	Odour*	IS 3025 (P-05):	--	--	Agree.	--
4.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	518.0	--
5.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	156.0	--
6.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	154.0	--
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	224.0	--
8.	Total suspended solids	IS 3025 (P-17):2012	mg/l	5.7	22.0	--
9.	Oil and grease	IS 3025 (P-39):2003	mg/l	8.79	8.0	--
10.	BOD	IS 3025 (P-44):2009	mg/l	11.04	5.0	3
11.	COD	IS 3025 (P-58):2006	mg/l	8.75	16.0	--
12.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	21.0	--
13.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	0.90	--
14.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ ⁻ (B) 23 rd edition 2017	mg/l	11.33	1.29	--
15.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	35.2	--
16.	Magnesium (as Mg ²⁺)	IS 3025 (P-46):2003	mg/l	1.90	16.0	--
17.	Phenols (C ₆ H ₅ OH)*	IS 3025 (P-43)	mg/l	--	0.8	--
18.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	30.0	--

Tested by Pam Kumar Lab Analyst		Verified by BrijNandan Kumar Section In-Charge		Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory		Issued by Umesh Das Technical Manager	
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Branch Office : - Jamshedpur

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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
Certified by :- An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.				T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	3
Discipline	Chemical	Group	Water		Sample Description				Surface Water										
Report Release Date		18 th October, 2021				Report ID				YBAEEL-210911-101515 – SW01									
W. Order/ JSPCB App. No.		3030005309				Work Order Date				27.02.2021									
Type of Industry(If any)		Thermal Power Plant				Job code/ Ref. no.				YBAEEL/WA/L/C/Sep-21/03									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		30/09/2021				Mode of sample collection				By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				210930-SW-E01									
Sampling Location		Hariharpur Pond				Sampling Source				Surface Water									
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml									
Meteorological Cond. of Field		W.C.– Clear				RH % - 60				Temp. - 33°C									
Sample receipt Date		30/09/2021		Analysis Started on		30/09/2021		Analysis completed on		12/10/2021									

19.	Phosphate (as PO ₄ ³⁻)	IS 3025 (P-31)	mg/l	--	0.08	--
20.	Aluminium (as Al)	IS 3025 (P-55)	mg/l	--	BDL (MDL)	--
21.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	--
22.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	--
23.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	--
24.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	0.18	--
25.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.02	--
26.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	--
27.	Selenium (as Se)	APHA 3111 B 23 rd edition 2017	mg/l	5.08	BDL (MDL 0.01)	--
28.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	0.02	--
29.	Nickel (as Ni)	APHA 3111 B 23 rd edition 2017	mg/l	13.72	BDL (MDL 0.02)	--
30.	Sodium (as Na)	APHA 3111 B 23 rd edition 2017	mg/l	16.98	40.0	--
31.	Potassium (as K)	APHA 3111 B 23 rd edition 2017	mg/l	9.21	7.0	--
32.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	--

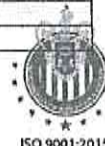
*****End of Report*****

Limit is specified as #	G.S.R. 742 (E) 25 th September, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits except BOD

Tested by Perm Kumar Lab Analyst	Verified by BrijNandan Kumar Section In-Charge.	Authorized Signatory Chemical Section Yugantar Bharati Analytical Laboratory	Issued by Umesh Das Technical Manager
Branch Office :-	Jamshedpur	Dhanbad	Envi Hazaribag



Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	4	0	0	0	0	5	9	
Discipline	Biological	Group		Water			Sample Description				Surface Water							
Report Release Date		18 th October, 2021						Report ID				YBAEEL-210911-101515 – SW01						
W. Order/ JSPCB App. No.		3030005309						Work Order Date				27.02.2021						
Type of Industry(If any)		Thermal Power Plant						Job code/ Ref. no.				YBAEEL/WA/L/M/Sep-21/02						
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021						Mode of sample collection				By YBAEEL Team						
Sampling Protocol		IS : 1622:1982, R - 2019						Sample Code				210930-SW-E01						
Sampling Location		Hariharpur Pond						Sampling Source				Surface Water						
Sample pkg. Condition		Sealed Pack in PP Bottle						Sample Quantity				250 ml						
Meteorological Cond. of Field		W.C.– Clear						RH % - 60				Temp. - 33°C						
Sample receipt Date		30/09/2021		Analysis Started on			04/10/2021			Analysis completed on			07/10/2021					

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	540	--
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	350	2500
3.	E coli	APHA 9221-F 23 rd Edition 2017	MPN/100 ml	350	--

*****End of Report*****

Limit is specified as	G.S.R. 742 (E) 25 th September, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Madhuri Sinha Lab Analyst	Verified by Mukesh Kumar Section In-Charge	Issued by Umesh Das Technical Manager
Branch Office :-	Jamshedpur	Dhanbad
		Hazaribag
		Pakur



ISO 45001:2018

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ISO 9001:2015



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ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	4
Discipline	Chemical	Group	Water			Sample Description				Surface Water								
Report Release Date		18 th October, 2021				Report ID				YBAEEL-210911-101515 – SW02								
W. Order/ JSPCB App. No.		3030005309				Work Order Date				27.02.2021								
Type of Industry(If any)		Thermal Power Plant				Job code/ Ref. no.				YBAEEL/WA/L/C/Sep-21/03								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021				Mode of sample collection				By YBAEEL Team								
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				210930-SW-E02								
Sampling Location		Srirampur Pond				Sampling Source				Surface Water								
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml								
Meteorological Cond. of Field		W.C.- Clear				RH % - 60				Temp. - 33°C								
Sample receipt Date		30/09/2021		Analysis Started on			30/09/2021			Analysis completed on			12/10/2021					

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	7.1	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	30.0	--
3.	Odour*	IS 3025 (P-05):	--	--	Septic	--
4.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	480.0	--
5.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	162.0	--
6.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	202.0	--
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	242.0	--
8.	Total suspended solids	IS 3025 (P-17):2012	mg/l	5.7	32.0	--
9.	Oil and grease	IS 3025 (P-39):2003	mg/l	8.79	4.2	--
10.	BOD	IS 3025 (P-44):2009	mg/l	11.04	6.0	3
11.	COD	IS 3025 (P-58):2006	mg/l	8.75	22.0	--
12.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	5.5	--
13.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	1.0	--
14.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ - (B) 23 rd edition 2017	mg/l	11.33	0.27	--
15.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	56.0	--
16.	Magnesium (as Mg ²⁺)	IS 3025 (P-46):2003	mg/l	1.90	15.06	--
17.	Phenols (C ₆ H ₅ OH)*	IS 3025 (P-43)	mg/l	--	1.30	--
18.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	45.40	--
19.	Phosphate (as PO ₄ ³⁻)*	IS 3025 (P-31)	mg/l	--	0.03	--
20.	Aluminium (as Al)*	IS 3025 (P-55)	mg/l	--	BDL (MDL)	--
21.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	--

Tested by Pem Kumar Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
---------------------------------------	---	--	---

Branch Office :- Jamshedpur Dhanbad Enigma Hazaribag

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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
Certified by :- An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	1	0	0	0	0	1	4	4	
Discipline	Chemical	Group	Water			Sample Description					Surface Water								
Report Release Date		18 th October, 2021					Report ID					YBAEEL-210911-101515 – SW02							
W. Order/ JSPCB App. No.		3030005309					Work Order Date					27.02.2021							
Type of Industry(If any)		Thermal Power Plant					Job code/ Ref. no.					YBAEEL/WAI/L/C/Sep-21/03							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		30/09/2021					Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003					Sample Code					210930-SW-E02							
Sampling Location		Srirampur Pond					Sampling Source					Surface Water							
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity					3000 ml							
Meteorological Cond. of Field		W.C.– Clear					RH % - 60					Temp. - 33°C							
Sample receipt Date		30/09/2021		Analysis Started on			30/09/2021			Analysis completed on				12/10/2021					

22.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	--
23.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	--
24.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	0.03	--
25.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.43	--
26.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	--
27.	Selenium (as Se)	APHA 3111 B 23 rd edition 2017	mg/l	5.08	BDL (MDL 0.01)	--
28.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	0.12	--
29.	Nickel (as Ni)	APHA 3111 B 23 rd edition 2017	mg/l	13.72	BDL (MDL 0.02)	--
30.	Sodium (as Na ⁺)	APHA 3111 B 23 rd edition 2017	mg/l	16.98	20.0	--
31.	Potassium (as K ⁺)	APHA 3111 B 23 rd edition 2017	mg/l	9.21	2.0	--
32.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	--

*****End of Report*****

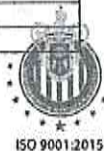
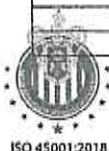
Limit is specified as #	G.S.R. 742 (E) 25 th September, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits except BOD

Tested by Pem Kumar Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
---------------------------------------	---	--	---

Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

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ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.		T C 7 8 1 3 2 1 4 0 0 0 0 0 6 0															
Discipline	Biological	Group	Water		Sample Description	Surface Water											
Report Release Date	18 th October, 2021				Report ID	YBAEEL-210911-101515 - SW02											
W. Order/ JSPCB App. No.	3030005309				Work Order Date	27.02.2021											
Type of Industry (if any)	Thermal Power Plant				Job code/ Ref. no.	YBAEEL/WA/L/M/Sep-21/02											
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date	30/09/2021				Mode of sample collection	By YBAEEL Team											
Sampling Protocol	IS : 1622:1982, R - 2019				Sample Code	210930-SW-E02											
Sampling Location	Srirampur Pond				Sampling Source	Surface Water											
Sample pkg. Condition	Sealed Pack in PP Bottle				Sample Quantity	250 ml											
Meteorological Cond. of Field	W.C.- Clear				RH % - 60				Temp. - 33°C								
Sample receipt Date	30/09/2021		Analysis Started on		04/10/2021		Analysis completed on		07/10/2021								

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	79	--
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	46	2500
3.	E coli	APHA 9221-F 23 rd Edition 2017	MPN/100 ml	46	--

*****End of Report*****

Limit is specified as	G.S.R. 742 (E) 25 th September, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Madhuri Sinha Lab Analyst	Verified by Mukesh Kumar Section In-Charge Microbiological & Analytical Laboratory	Issued by Umesh Das Technical Manager
---	---	---

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Certified by: - An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.			T	C	7	8	1	3	2	1	2	0	0	0	0	7	6	9	
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Stationary Source Emission						
Report Release Date		18 th October, 2021					Report ID					YBAEEL-210911-101515- S02							
W. Order/ JSPCB App. No.		3030005309					Work Order Date					27.02.2021							
Type of Industry(If any)		Thermal Power Plant					Job code/ Ref. no.					YBAEEL/WA/L/A/Oct-21/01							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. VIII.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Period		28/09/2021					Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS: 11255 & CPCB Guideline (Lats/80/2013-14)																	
Meteorological Cond. of Field		W.C.- Cloudy					RH % - 65					Temp.-27°C							
Sample receipt Date		01/10/2021		Analysis Started on			01/10/2021			Analysis completed on			12/10/2021						

General Information

As observed while sampling				As reported by customer			
Location	Sampling port hole			Type of fuel Used	Coal		
Platform	Permanent			Quantity of Fuel Used (During Sampling)	170 Ton/Hr.		
Stack Description (Shape & Material)	Circular / RCC			Total production Capacity	270 MW		
Sampling port	Available			Height of Stack from ground level	275 mtr.		
Stack Identification	Unit - II			Inner Diameter of Stack	4.2 mtr.		
Height of port hole from Ground level	90 mtr.			Pollution Controlling Device (if any)	ESP (for PM)		
Running Oven during sampling (if any)	N/A			Total No. of Oven (if any)	N/A		

*****Test Results *****

Sl	Parameters	Test Method	Units	MU %	Results	Limits
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	--	393.0	-
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	--	28.7	-
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	--	1056508.6	-
3.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	2.12	42.57	50
4.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	3.06	846.2	600
5.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	2.70	458.5	450
6.	Carbon Monoxide (CO)	IS 13270:1992 (RA 2009)	%	--	BDL (MDL 0.2)	-
7.	Mercury (as Hg)*	Lat's/80/2013-14	mg/Nm ³	--	BDL (MDL 0.003)	0.03

Emission Rate

1.	Particulate Matter (PM)	IS 11255 (Part 1)2009	kg/hr.	44.98	--
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	kg/hr.	894.05	--
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	kg/hr.	484.41	--

*****End of Report*****

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	All samples Comply with prescribed limits Except SO ₂ and NO _x

Tested by Amit Kumar Sinha Lab Analyst	Verified by Brijnandan Kumar Section In-Charge	Authorized Signatory Atmospheric Pollution Yugantar Environmental Analytical & Engineering Lab Hazaribag	Issued by Umesh Das Technical Manager
--	--	---	---

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ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.		T C 7 8 1 3 2 1 3 0 0 0 0 0 7 3														
Discipline	Chemical	Group	Pollution & Environment		Sample Description		ASH									
Report Release Date		18 th October, 2021			Report ID		YBAEEL-210911-101515 - S02									
W. Order/ JSPCB App. No.		3030005309			Work Order Date		27.02.2021									
Type of Industry (If any)		Thermal Power Plant			Job code/ Ref. no.		YBAEEL/WA/L/S/Sep-21/02									
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand														
Sampling Date		30/09/2021			Mode of sample collection		By YBAEEL Team									
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003			Sample Code		210930-S-E02									
Sampling Location		Hopper			Sampling Source		Bottom Ash									
Sample pkg. Condition		Sealed Pack in Zipper Bag			Sample Quantity		2.5 Kg Approx.									
Meteorological Cond. of Field		W.C. - Clear			RH % - 60			Temp. - 33°C								
Sample receipt Date		30/09/2021		Analysis Started on		30/09/2021		Analysis completed on		12/10/2021						

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results
1.	Iron (as Fe)	USEPA 3050 B :1996/APHA 3111 B	ppm	2.73	14.32
2.	Zinc (as Zn)	USEPA 3050 B :1996/APHA 3111 B	ppm	4.44	0.2
3.	Copper (as Cu)	USEPA 3050 B :1996/APHA 3111 B	ppm	10.18	BDL (MDL 0.03)
4.	Lead (as Pb)	USEPA 3050 B :1996/APHA 3111 B	ppm	2.82	BDL (MDL 0.02)
5.	Nickel (as Ni)	USEPA 3050 B :1996/APHA 3111 B	ppm	4.10	BDL (MDL 0.02)
6.	Cadmium (as Cd)	USEPA 3050 B :1996/APHA 3111 B	ppm	9.57	1.0
7.	Chromium (as Cr)	USEPA 3050 B :1996/APHA 3111 B	ppm	5.44	0.36
8.	Arsenic (as As)	USEPA 3050 B :1996/APHA 3112 B	ppm	--	0.02
9.	Mercury (Hg)	USEPA 3050 B :1996/APHA 3111 B	ppm	--	0.05
10.	Unburn Carbon	IS 1727:1967	%	--	2.4
11.	Selenium (as Se)	USEPA 3050 B :1996/APHA 3111 B	ppm	--	14.32

*****End of Report*****

Limit is specified as	
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
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Tested by Shivani Kr. Singh Lab Analyst		Verified by BrijNandan Kumar Section In-Charge		Authorized Signatory Pollution & Environment Yugantar Bharati Analytical & Environmental Engineering Laboratory		Issued by Umesh Das Technical Manager	
Branch Office :- Jamshedpur		Dhanbad		Hazaribag		Pakur	



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ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.				T	C	7	8	1	3	2	1	3	0	0	0	0	7	0	
Discipline	Chemical	Group	Pollution & Environment					Sample Description					Waste Water / Effluent Water						
Report Release Date		18 th October, 2021					Report ID					YBAEEL-210911-101515 – WW01							
W. Order/ JSPCB App. No.		3030005309					Work Order Date					27.02.2021							
Type of Industry(if any)		Thermal Power Plant					Job code/ Ref. no.					YBAEEL/WA/L/W/Sep-21/06							
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Date		30/09/2021					Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003					Sample Code					210930-WW-E01							
Sampling Location		Ash Pond					Sampling Source					Effluent Water							
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity					3000 ml							
Meteorological Cond. of Field		W.C.– Clear					RH % - 60					Temp. - 33°C							
Sample receipt Date		30/09/2021		Analysis Started on			30/09/2021			Analysis completed on			12/10/2021						

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	2.53	7.62	6.5 - 8.5
2.	Temperature*	IS 3025 (P-09)	°C	1.55	25.6	--
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	8.26	54.0	100
4.	Oil and grease	IS 3025 (P-39):2003	mg/l	14.60	6.2	20.0
5.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	7.86	BDL (MDL 0.003)	--
6.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	7.14	0.11	--
7.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	6.26	BDL (MDL 0.02)	--
8.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	25.0	BDL (MDL 0.003)	--

*****End of Report*****

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
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Remarks	Sample Comply with prescribed limits

Tested by Shivani Kr. Singh Lab Analyst	Verified by BrijNandan Kumar Section In-Charge	Authorized Signatory Umash Das Technical Manager	Issued by Umash Das Technical Manager
Branch Office :-	Jamshedpur	Dhanbad	Hazaribag
			Pakur

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

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A Report on Corporate Social Responsibility Initiatives

**Adhunik Power & Natural Resources Limited, Padampur
(Block-Gamharia, District-Saraikela-Kharsawan, Jharkhand)**

Period April 2021 to September 2021

Adhunik Power & Natural Resources Limited, Padampur had taken up community development projects as a part of corporate social responsibility with support of Rapcha Gram Panchayat, Dugdha Gram Panchayat, & Gamharia Panchayat Samiti/Block and executed the development projects in periphery villages. The focus areas of development projects were as under:

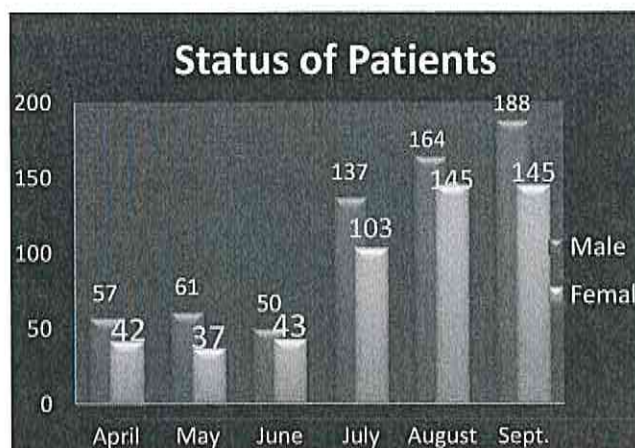
- I. Health & Sanitation.
- II. Education.
- III. Women Empowerment & Livelihood.
- IV. Sports & Culture.
- V. Infrastructural Development.
- VI. Environment.

The community development initiatives were implemented in the following **villages of Kandra, Dumra, Rapcha & Dugdha Gram Panchayats**. The details of the CSR activities undertaken are as hereunder:

Health & Sanitation

1. Rural Health Camp:

Provided medical facilities to villagers on regular basis in peripheral villages of plant area; villagers (males/females) underwent for health check-ups and received free medical treatment including medicines accordingly.



The **objectives** of the medical services were:

1. To extend support towards better health of community.

2. To conduct general health check-up of the villagers and provide medical counseling and medical treatment accordingly to them.
3. To make the villagers aware of preventive and curative measures of common diseases such as cold, cough Skin related, abdominal, malaria etc.

2. Ambulance Services:

24 X 7 ambulance facility was provided to the villagers of peripheral village for better treatment. Monthly an average of **25 village families** from nearby area in **3 Gram Panchayats** were provided with the Ambulance service to ensure timely medical treatment at the referred health institution(s)/by the doctor(s). The Ambulance Service was started with the **objectives** of:

- To ensure timely referral health services to the needy village patients.
- To facilitate the pregnant women for timely institutional delivery



3. Sprinkling and distribution of Bleaching Powder :

Bleaching powder sprinkled in every well and drainages of the periphery area of Badahariharpur, Chotahariharpur, Padampur, Bikanipur & Pindrabera for cleanliness from May' 2021 onwards with the support of Village volunteers and Villagers under the **project of Swachhh Gram Swasth Gram**. Subsequently, groups of villagers were formed for this purpose and sprinkling on regular interval. Bleaching powder also got distributed among the villagers for the further use to save the villagers from water borne diseases.



4. Blood Donation Camp:

A blood donation camp jointly organized by Adhunik Power & Natural Resources Limited,



Padampur and Power Project Bisthapit – Prabhavit Swalambi Samiti, Padampur at Community hall (Club) Padampur village on 22.9.2021 from 9.30 AM to 4.00 PM in association with Jamshedpur Blood Bank, Jamshedpur. The villagers of Padampur, Badahariharpur, Chotahariharpur, Srirampur, Pindrabera, Bikanipur, Balidih etc. participated with enthusiasm and

collected 46 Units of blood for this noble cause. Jamshedpur Blood Bank and Voluntary Blood Donors Association of Jharkhand, Jamshedpur were very active and conducted the camp under the guidance of Dr. (Mrs.) N. Jha.

Coffee & refreshments were provided to the persons who were part of the camp and also distributed T-shirt to donors.

Mr. Krishna Baskey, Gram Pradhan, Padampur, Mr. Ram Das Tudu, Ex Pramukh, Mr Rajesh Kumar Bhagat, Badahariharpur, Mr. Indro Murmu, Up Mukhiya ,Dr. G. P. Murmu ,Head-Medical



Services, APNRL, Mr Sanjeet K. Sinha, Sr. Manager-CSR, APNRL, Mr. Harsh Choudhary HR-APNRL Mr. Ranjeet Singh-HR-APNRL and other officials also participated in the camp.

5. Free COVID-19 vaccination camp: Under its Corporate Social Responsibility (CSR) Adhunik



Power & Natural Resources Limited has organized 6th vaccination camps its employees and

their dependents, the contract labourers and surrounding area villagers. So far, the company has completed the statistics of overall 1390 vaccinations to prevent from diseases COVID19 under the guidance of district administration.

The company has also provided 600 covid-19 medicines kits to District administration, Saraikela-Kharsawan including masks and sanitizer.

6. Drinking Water Supply: Villagers were supplied drinking water through water tanker towards meeting the need of drinking water and other related water use during social functions which happened in villages from 03 Gram Panchayats namely Rapcha & Kandra, Dugdha. The objective of supply of drinking water was to meet the needs and requirement of water by the villages especially during ceremonial function.



7. Installation of water purification (RO) - 1000 litter per hour capacity water purification (RO) unit inaugurated by MD Sir Mr. Prakash Tiwari on 11.6.2021. This water unit has been installed near at "Swarnrekha Bhawan" APNRL to provide purification drinking water for the villagers as well as employees.



8. International Yoga Day: International Yoga Day celebrated at Shram Shakti Bhawan -APNRL on Monday, 21 June 2021 to bring peace, harmony, happiness and success to every soul. This was a great opportunity to imbibe the value of discipline. Yoga is a mental, physical and



spiritual practice that needs to be carried every day. Employees got the chance to know how yoga embodies unity of mind and body. About 50 employees including contract employees were participated. The inaugural speech was given by the Mr. Prakash Tiwari, MD-APNRL who emphasized the

importance of Yoga and physical exercises in daily life. The sessions which started at 6.30 am was carried out under the guidance of the yoga instructor Mr. Ashish Ranjan.

EDUCATION:

1. **Project CYBER VILLAGE, Badahariharpur:** The project funded by us in order to make the youths of the villages of Dugdha gram panchayat and nearby areas as computer literate is still running smoothly benefiting the village youths.



Women Empowerment/Livelihood

1. **Strengthening of Self Help Groups :** Adhunik Power& Natural Resources Limited (APNRL) is proactively working since its inception for the benefit of local people. In order to strengthen the Women Self Help Groups (SHG) of the villages in and around its operational areas, the Company organized trainings on various livelihood activities to make them capable for additional source of income.

Monthly meetings with all the SHG members were organized in villages like Padampur, Badahariharpur, Chotahariharpur, Srirampur, Shankarpur, Pindrabera&Ramchandrapur.

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

To explore the functional aspects of SHGs in promoting micro saving and inter loaning activities.

To increase social cohesiveness among the members of women Self-Help-Group.

2. National Nutritional Month (Poshan Mah) - 2021

The CSR Department of APNRL is celebrating National Nutrition Month of September 2021 to



fight against malnutrition. We empowered the village women through various training events to lead their life with sustainable social recognition. In continuation we organized the seminar, Rally and Godh Bharai function in Chotahariharpur, Bikanipur,

Bahahariharpur and Padampur villages which covered 5 villages. Approximately 300 women including Aganwadi Sevika, pregnant and SHG members participated in the programme. The main objective is to raise awareness on the importance of nutrition for health which has an impact on development, productivity, economic growth and ultimately National development.

On 23th September 2021 a **Seminar and Godh bharai** was organized in Community Hall, Padampur of Rapcha Gram Panchayat. The seminar began with the welcome note by Senior

Manager-CSR Mr. Sanjeet Kumar Sinha of Adhunik Power and Natural Resources Limited. Mr. Sinha warmly welcome all the participants and explained the benefit & goal of the Seminar.

Our Chief Guest Mrs. Sadhna Choudhary- CDPO, ICDS, Gamharia said that malnutrition is directly linked to human resources development, productivity and ultimately to the national growth. She also explained Women, infants, children, and adolescents are at particular risk of malnutrition. Optimizing nutrition early in life—including the 1000 days from conception to a child's second



birthday—ensures the best possible start in life, with long-term benefits.

Dr.G.P.Murmu-Head Medical Services, APNRL explained the Malnutrition refers to deficiencies, excesses, or imbalances in a person's intake of energy and/or nutrients. Around 45% of deaths among children under 5 years of age are linked to undernutrition. He also said that importance of breastfeeding within one hour of birth and exclusive breastfeeding up to six months it's continue breastfeeding for two years.

Godh bharai function organized for pregnant women; it is performed during pregnancy to pray



for the good health of the mother and baby, and the safe delivery. A group of women come together to bless the mom-to-be and the baby and feast on some delicious treats. About 50 pregnant Women were also honored on the occasion of godh bharai.

Following persons were also present on this occasion – Mr. Anil Kumar Soni, DGM-HR & Adm. Mr. Harsh Choudhary –HR, Anil Sardar-APNRL, Salaindra Tudu-APNRL , AWWs. The Orth program facilitated by Mrs. Urmila Kumari LS-ICDS. At the end of the seminar and godh bharai Mr. Sanjeet Kumar Sinha – CSR thanked all the participants and speakers.

4. Training and Support for Livelihood Projects:

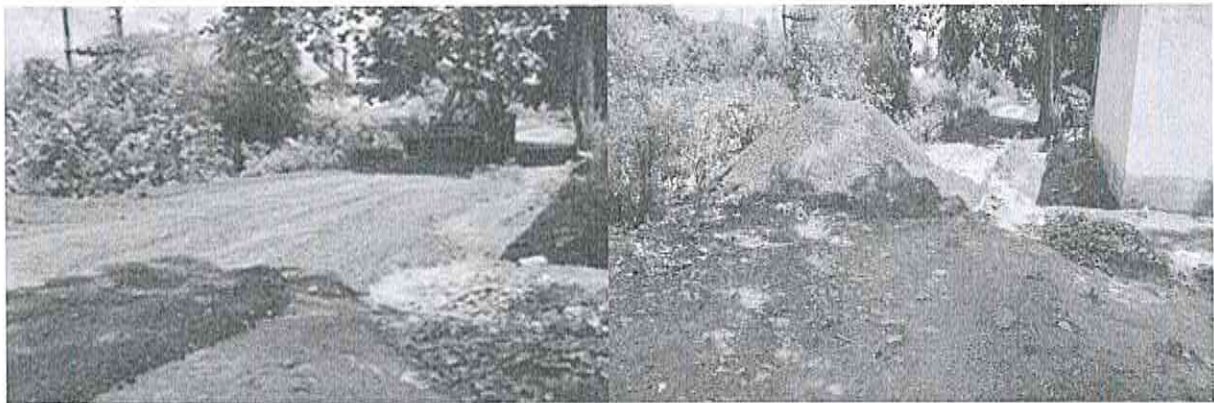
Vinapani Self-help Group, Chotahariharpur : The members of Vinapani Self-help group engaged in making of Agarbatti. This has helped them in increasing corpus fund for their group. They have made this activity as their livelihood with guidance of Adhunik Power & Natural Resources Limited, Padampur under company CSR.

Infrastructure

Repairing of Village Road

Adhunik Power & Natural Resources Limited, Padampur is playing an important role in improving the socio-economics conditions of local communities around which the company is operative.

A meeting was convened by villagers of Barahariharpur with the CSR team where villagers reported the bad condition of village road. The badly damaged 100 meter road was immediately repaired by the company. Road Repairing about 100 meter, Badahariharpur on 10th sept. 2021.



Environment

World Environment Day: Adhunik Power & Natural Resources Limited, Padampur observed the World Environment Day on 5.6.2021 at plant premises and created awareness about importance of environment and plantation. Senior Officers of the company planted saplings on this occasion.

Shri Mahesh Agarwal said, "Conservation of Environment is need of time, we have to be serious on this issue. Our life is correlated with pure environment somehow; if we care environment then only environment will care for us." The Managing Director Shri Prakash Tiwari said, "We have planted the saplings that's very good but our responsibility is not yet over. We should take



pledge that we will take all care and put best efforts to save those planted saplings till it does grow big." Special guests Mr. Vaibhav Agarwal and Mr. Mayank Agarwal along with Chief Operating Officer Mr. Rakesh Gupta planted fruit saplings followed by Mr. M N Singh, Mr. Rajesh Sharma, Mr. Ravinder Agarwal, Mr. NSP Rao, Mr.

Amal Baidya, Mr. Anil Kumar Soni, Mr. Rajesh Singh, Mr. Shirish Waghmare, Mr. Maninder Singh, Mr. Sanjeet Sinha, Mr. Arjun Singh, Mr. B N Sundray also planted saplings.



Welcome address delivered by Mr. Anil Soni while program compered by Mr. Kamlesh Kumar of environment department.

Media

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पटना/झारखंड

कोविड को मत देने के लिये आधुनिक पावर ने सरकार को दिया अनुदान

आधुनिक पावर लिमिटेड

आधुनिक पावर लिमिटेड (APNRL) कोविड-19 महामारी के दौरान सरकार को अनुदान देने के लिए तैयार है। कंपनी के प्रबंधन ने कहा कि यह अनुदान कोविड-19 से निपटने में मदद करेगा।



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Health security of employees is our utmost priority: MD

Mail News Service

200 employees vaccinated at Adhunik Power

Jamshedpur, July 7: Altogether 200 employees of Adhunik Power & Natural Resources Limited have vaccinated at Padampur situated Plant here on Wednesday.



A one-day vaccination drive was organized by the CSR department of Adhunik Power with the support of district administration, Sarakela-Kharwan. To keep protected from COVID-19 infection a Covishield vaccine has been

contractor agencies were also benefited at the drive. Managing Director, Prakash Tiwari extended all

thanks to Deputy Commissioner Arva Rajkumar for his valuable support. Speaking on the occasion Mr. Tiwari said that health security of employees is also the company's prime priority and this is the reason that company has organized this drive. The medical team of Sarakela-Kharwan along with Anil Kumar Soni, Head (HR), Arun Kumar, Dr. G P Murmu and Sanjeet Sinha contributed vital part in the success of the vaccination drive. (Wmb)

Get addicted to Yoga: Tiwari

Mail News Service

Jamshedpur, June 21 : The employees of Adhunik Power & Natural Resources Limited celebrated 7th International Yoga day with all vigor and enthusiasm at the plant site here on Monday. Adhunik Power personnel also pledged to make yoga regular practice in their daily routine life. Company's Managing Director Prakash Tiwari has also performed various postures of yoga asanas to mark the day. Speaking on the occasion Mr. Tiwari said, "I must say everyone should get addicted to yoga because Yoga is a boon and



better protective shield to prevent diseases. So every individual should adopt yoga to live a life full of energy." COO Rakesh Gupta, Operation & Maintenance, Head, M N Singh, HR, Head, Anil Kumar Soni, Sanjeet Sinha of CSR department, Kamlesh

Kumar and many others participated with full zeal. Yoga instructor Ashish Ranjan taught all participants with various kinds of yoga asanas during the three-hour session. Programme was compered by Anil Kumar Soni while vote of thanks proposed by Sanjeet Sinha. (Wmb)

योग अपनार्यों और इसके आदी बनें : प्रकाश

प्रकाश टिवारी

आधुनिक पावर में मनाया गया योग दिवस

काठमांडू : पटना स्थित आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड के कर्मचारियों ने योगमहोत्सव को कंपनी के धर्म रीति रीवाज में पूर्ण अंशदा के साथ योग के विभिन्न आसन कर 7वां अंतराष्ट्रीय योग दिवस मनाया। इस अवसर पर आधुनिक पावर के अधिकारियों व कर्मचारियों ने योग को अपनी दिनचर्या में शामिल करने का संकल्प भी लिया। इस मौके पर वरिष्ठ मुख्य अतिथि उपस्थित कंपनी के प्रबंध निदेशक प्रकाश टिवारी ने योग जलाना योग तत्व का शुभारंभ किया। इस मौके पर कंपनी के सीओओ रमेश गुप्ता के अलावा एमएस सिंह, अनिल कुमार सोनी, संजीत सिन्हा, कमलेश कुमार आदि भी मौजूद थे। कर्मचारियों को समर्पित करते हुए प्रबंध निदेशक प्रकाश टिवारी ने कहा कि योग की अपनानी और इसके आदी बन जाई क्योंकि योग



एक खरदान के समान है। योग प्रशिक्षक अश्विनी रतन ने से घंटे के सत्र के दौरान सभी प्रतिभागियों को विभिन्न प्रकार के योगासनों को सिखाया। कार्यक्रम का संचालन अनिल कुमार सोनी ने किया जबकि धन्यवाद ज्ञापन संजीत सिन्हा ने किया।

आधुनिक पावर के वैक्सीनेशन अभियान में 1150 का टीकाकरण



गुवाहाटी, 27 अगस्त (स्पोर्ट्स) : आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड एवं जिला प्रशासन के संयुक्त तत्वावधान में टीकाकरण अभियान के पांचवीं चरण में 1150 लोगों का वैक्सीनेशन किया गया। मुख्यमंत्री को बड़ा तहल्लेपूर गांव के सामुदायिक भवन में पांचवां शिफर लगाकर 320 ग्रामीणों को कोविड-19 का टीका लगाया गया, इस दौरान लाभुकी की मुफ्त में मास्क भी बांटा गया, आधुनिक पावर के मुख्य कार्यकारी अधिकारी रमेश गुप्ता ने बताया कि यह अभियान अभी जारी रहेगा, जिला प्रशासन व मेडिकल टीम के प्रति आभार व्यक्त करते हुए कहा कि इस कोरोना फाल में प्रत्येक कर्मचारी अपने स्वास्थ्य का ध्यान रखकर टीका जल्द लगवाई और दूसरों को भी टीका लगाने के लिए प्रेरित करें, टीकाकरण अभियान की सफल बनाने में मेडिकल टीम की रूनी कुमारी, शशिजाता कुमारी, धार्वनी माली यमेल कंपनी के सीएसओ, मेडिकल और एडमिन विभाग का सहायनी योगदान रहा

आधुनिक पावर में 158 का हुआ रैपिड एंटीजन टेस्ट, सभी निगेटिव

गुवाहाटी, 19 जुलाई (स्पोर्ट्स) : कोरोना संक्रमण के संशयन दूरित प्रमाण, स्वास्थ्य सेवा के अंतर्गत में आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड द्वारा कोरोना काली चरण में 158 कर्मचारियों का रैपिड एंटीजन टेस्ट कराया गया जिससे सभी टेस्ट नेगेटिव रहे। इस दिन का रैपिड एंटीजन टेस्ट (आगामी) आधुनिक पावर में 146 एप और 12 ग्रामीणों का टेस्ट हुआ जिसमें से कोई भी टेस्ट पॉजिटिव नहीं पाया गया, लाभुकी ने



अनुसंधान वरकर दिला निगेटिव का जवाब बनें हुए टेस्ट का नतीजा लगा

आजकाल के कोरोना काल में जो लोग मारी के लक्षण सहयोग व काली के संशयन और एप पर निवारण के गुणों में रैपिड एंटीजन टेस्ट (आगामी) अभियान मनाया जा रहा, आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड कंपनी कोविड-19 के चरणवत् कोविड संक्रमण की रोकथाम में लगे रहा है इस दौरान कर्मचारी ने कोविड का टीकाकरण, योगदान सहयोग करके 545 कर्मचारियों व ग्रामीण कर्मचारियों का टीकाकरण कराया है।

Adhunik Power felicitates health workers

Corona period gave opportunities for innovative thinking: Rakesh Gupta

Jamshedpur, August 10: Adhunik Power & Natural Resources Limited Company, celebrated health workers and their dedication during the COVID-19 pandemic. The company's Managing Director, Prakash Tiwari, said that the health workers have been instrumental in keeping the company safe during the pandemic.



Chief, Rakesh Gupta, presented a certificate to the health workers. He said that the health workers have been instrumental in keeping the company safe during the pandemic.

During the pandemic, health workers have been instrumental in keeping the company safe. The company's Managing Director, Prakash Tiwari, said that the health workers have been instrumental in keeping the company safe during the pandemic.

APNRL - JAMSHEDPUR

LIST OF LOCAL EMPLOYED AS ON 30.09.2021

S. No.	Emp. Code	E.Name	Designation	Department
1	00302223	Mr. Arun Mahato	Sr. Electrician	Electrical
2	00302236	Mr. Rajen Kumar Tudu	Technician	WTP, Utilities
3	00302237	Mr. Bangal Majhi	Technician	Civil
4	00302384	Mr. Lal Mohan Mahato	Asst. Supervisor	Horticulture
5	00302386	Mr. Budhram Baskey	Technician	Operation
6	00302387	Mr. Ajit Mahato	Technician	Operation
7	00302393	Mr. Bijay Baskey	Technician	Civil
8	00302430	Mr. Laxman Baskey	Driver	Medical Services
9	00302436	Mr. Raja Ram Baskey	Technician	Automobile
10	00302453	Ms. Paneshwari Kumari	Semi-Skilled	Fly Ash
11	00302454	Mr. Sunil Baskey	Semi-Skilled	Coal Logistics
12	00302458	Mr. Nuna Baskey	Helper	Automobile
13	00302462	Mr. Rajesh Kumar Mahato	Fitter	Operation
14	00302463	Mrs. Sonia Baskey	Semi-Skilled	Electrical
15	00302493	Mrs. Surajmani Baskey	Semi-Skilled	EMD
16	00302494	Mrs. Saraswati Devi	Semi-Skilled	Medical Services
17	00302495	Mrs. Anita Mahato	Assistant	Maintenance
18	00302501	Mrs. Bangi Baskey	Semi-Skilled	AHP
19	00302503	Mr. Raju Tudu	Technician	Electrical
20	00302506	Mr. Ruhi Ram Majhi	Welder	Maintenance
21	00302507	Mr. Dilip Mahato	Helper	DM Plant
22	00302508	Mr. Dulal Mahato	Helper	Fire
23	00302509	Mr. Raju Mahato	Helper	DM Plant
24	00302510	Mr. Santosh Mardi	Electrician	Electrical
25	00302516	Mr. Rajesh Mahato	Technician	Electrical
26	00302517	Mr. Mohan Lal Mahato	Technician	Electrical
27	00302518	Mr. Sumit Kumar Mahato	Technician	Electrical
28	00302519	Mr. Tapan Kumar Mahato	Technician	Electrical
29	00302520	Mr. Bibhishan Mahato	Technician	Automobile
30	00302521	Mr. Suku Murmu	Technician	Automobile
31	00302522	Mr. Bimal Kumar Mandal	Field Operator	Safety
32	00302523	Mr. Bablu Besra	Technician	Operation
33	00302524	Mr. Vikram Baskey	Technician	Maintenance
34	00302525	Mr. Mangal Besra	Field Operator	Operation
35	00302526	Mr. Bir Singh Hembram	Technician	Maintenance
36	00302527	Mr. Gopal Hembrom	Technician	Operation
37	00302528	Ms. Chhatamuni Baskey	Helper	Stores
38	00302529	Mr. Durga Hembrom	Technician	Operation
39	00302530	Mr. Suren Baskey	Technician	Operation
40	00302531	Mr. Dasmath Hembrom	Technician	Operation
41	00302532	Mr. Budheswar Baskey	Technician	Operation
42	00302533	Mr. Karan Hembrom	Technician	Operation
43	00302534	Mr. Umesh Tudu	Technician	Operation
44	00302540	Mr. Birendranath Baskey	Driver	Medical Services
45	00302541	Mr. Shailendra Tudu	Driver	Medical Services
46	00302550	Mr. Birdhan Baskey	Technician	Civil
47	00302574	Mr. Anil Sardar	Technician	Civil
48	00302602	Mrs. Sarla Majhi	Sr. Assistant	Administration

49	00302604	Mr. Sohan Kisku	Technician	Electrical
50	00302605	Mr. Dilip Kisku	Technician	Electrical
51	00302606	Mr. Rabindra Nath Majhi	Technician	Operation
52	00302607	Mr. Mokra Murmu	Technician	Electrical
53	00302608	Mr. Lakhiram Tudu	Technician	Maintenance
54	00302609	Mr. Durga Baskey	Technician	Maintenance
55	00302610	Mr. Jiten Hansda	Technician	Operation
56	00302611	Mr. Jiten Sardar	Technician	Operation
57	00302612	Mr. Ashok Kumar Mahato	Technician	Operation
58	00302613	Mr. Mangal Majhi	Technician	Electrical
59	00302614	Mr. Sagram Tudu	Technician	Electrical
60	00302615	Mr. Sunil Kumar Tudu	Technician	Operation
61	00302616	Mr. Ganesh Mahato	Technician	Electrical
62	00302617	Mr. Sachin Kumar Tudu	Field Operator	Operation
63	00302618	Mr. Alok Mahato	Technician	Electrical
64	00302619	Mr. Rakesh Kumar Mahato	Field Operator	Operation
65	00302620	Mr. Chhotray Majhi	Technician	Operation
66	00302621	Mr. Devi Lal Majhi	Semi Skilled	Ash Loading
67	00302622	Mr. Govind Majhi	Technician	Electrical
68	00302628	Mr. Kalipada Singh Sardar	Semi Skilled	CHP
69	00302644	Mr. Vikram Singh Sardar	Semi-Skilled	Intake Well
70	00302645	Mr. Manik Singh Sardar	Technician	Intake Well
71	00302646	Mr. Jagannath Singh Sardar	Semi-Skilled	Intake Well
72	00302647	Mr. Budheshwar Mahato	Semi-Skilled	Intake Well
73	00302659	Mr. Krishna Manjhi	Semi Skilled	CHP Lab
74	00302660	Mr. Sakla Hembrom	Semi Skilled	CHP Lab
75	00302661	Mr. Uttam Kumar Mahato	Technician	Maintenance
76	00302662	Mr. Shikar Hembrom	Technician	C&I
77	00302663	Mr. Ranjit Besra	Semi Skilled	CHP Lab
78	00302664	Mr. Hopna Baskey	Helper	Operation
79	00302665	Mr. Sona Ram Baskey	Helper	Operation
80	00302666	Mr. Suku Majhi	Semi Skilled	AHP
81	00302667	Mr. Gopal Majhi	Helper	Operation
82	00302668	Mr. Ramdas Kisku	Helper	Operation
83	00302669	Mr. Som Murmu	Technician	Operation
84	00302670	Mr. Khirod Chandra Mahato	Technician	C&I
85	00302671	Mr. Sona Ram Hembrom	Technician	C&I
86	00302672	Mr. Ram Hembrom	Semi Skilled	CHP Lab
87	00302673	Mr. Rajesh Mahato	Technician	C&I
88	00302674	Mr. Nimay Mahato	Semi Skilled	DM Plant
89	00302676	Mr. Peeton Baskey	Semi Skilled	CHP Lab
90	00302677	Mr. Raju Baskey	Semi Skilled	CHP Lab
91	00302678	Mr. Bablu Baskey	Semi Skilled	CHP Lab
92	00302679	Mr. Baijnath Mardi	Technician	Planning & Monitoring
93	00302680	Mr. Nitai Sardar	Technician	Planning & Monitoring
94	00302681	Mr. Baliram Murmu	Technician	Planning & Monitoring
95	00302682	Mr. Karu Tilka Majhi	Technician	C&I
96	00302683	Mr. Rajendra Hembrom	Semi Skilled	Maintenance
97	00302684	Mr. Jitu Hembrom	Semi Skilled	CHP Lab
98	00302687	Mr. Soken Tudu	Technician	C&I
99	00302688	Mr. Umesh Baskey	Semi Skilled	AHP
100	00302690	Mr. Anil Tudu	Semi Skilled	CHP Lab

101	00302694	Mr. Akash Tudu	Semi Skilled	Stores
102	00302695	Mr. Sushil Kumar Tudu	Semi Skilled	CHP Lab
103	00302696	Mr. Mahendra Tantubai	Technician	Electrical
104	00302697	Mr. Prakash Tudu	Semi Skilled	Stores
105	00302698	Mr. Karu Besra	Technician	C&I
106	00302700	Mr. Ravindra Nath Tudu	Technician	Electrical
107	00302701	Mr. Som Majhi	Semi Skilled	CHP Lab
108	00302702	Mr. Salku Tudu	Semi Skilled	AHP
109	00302707	Mr. Sukram Tudu	Semi Skilled	CHP Lab
110	00302708	Mr. Jeevan Manjhi	Semi Skilled	CHP Lab
111	00302709	Mr. Birsa Hansda	Technician	Operation
112	00302710	Mr. Surja Hansda	Semi Skilled	CHP Lab
113	00302711	Mr. Sanjay Mandal	Technician	C&I
114	00302712	Mr. Budhadev Mahato	Technician	C&I
115	00302713	Mr. Narayan Mahato	Technician	Operation
116	00302714	Mr. Jai Chand Mahato	Technician	Maintenance
117	00302715	Mr. Mithun Majhi	Technician	C&I
118	00302716	Mr. Sumit Kumar Mahato	Technician	DM Plant
119	00302717	Mr. Mantu Mahato	Semi Skilled	CHP Lab
120	00302718	Mr. Santosh Sardar	Semi Skilled	CHP Lab
121	00302719	Mr. Ranjit Singh Sardar	Semi Skilled	CHP Lab
122	00302720	Mr. Lal Mohan Mahato	Semi Skilled	CHP Lab
123	00302721	Mr. Sohan Sardar	Semi Skilled	CHP Lab
124	00302722	Mr. Paga Sardar	Semi Skilled	Maintenance
125	00302773	Mr. Shibanath Singh Sardar	Semi Skilled	Horticulture
126	00302774	Ms. Basanti Singh Sardar	Semi Skilled	Electrical
127	00302775	Mr. Kali Pado Sardar	Semi Skilled	Horticulture



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
 Certified by :- An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL(Unique Lab Report) No.				T	C	7	8	1	3	2	1	3	0	0	0	0	7	3
Discipline	Chemical	Group	Pollution & Environment				Sample Description				Waste Water / Effluent Water							
Report Release Date		18 th October, 2021				Report ID				YBAEEL-210911-101515 – WW03								
W. Order/ JSPCB App. No.		3030005309				Work Order Date				27.02.2021								
Type of Industry(if any)		Thermal Power Plant				Job code/ Ref. no.				YBAEEL/WA/L/W/Sep-21/08								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Date		30/09/2021				Mode of sample collection				By YBAEEL Team								
Sampling Protocol		IS : 3025 (Part-1) 1987, R-2003				Sample Code				210930-WW-E03								
Sampling Location		Effluent Treatment Plant Outlet				Sampling Source				Effluent Water								
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml								
Meteorological Cond. of Field		W.C.– Clear				RH % - 60				Temp. - 33°C								
Sample receipt Date		30/09/2021		Analysis Started on		30/09/2021		Analysis completed on				12/10/2021						

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	2.53	8.62	5.5 – 9.0
2.	Temperature*	IS 3025 (P-09)	°C	1.55	25.5	--
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	8.26	36.0	100
4.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.44	15.0	--
5.	BOD	IS 3025 (P-44):2009	mg/l	6.85	17.5	30
6.	COD	IS 3025 (P-58):2006	mg/l	4.02	116.0	250
7.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	7.14	BDL (MDL 0.02)	2
8.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	16.09	BDL (MDL 0.01)	3
9.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	6.26	BDL (MDL 0.02)	0.1
10.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	6.57	0.07	5
11.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	4.37	14.2	--

*****End of Report*****

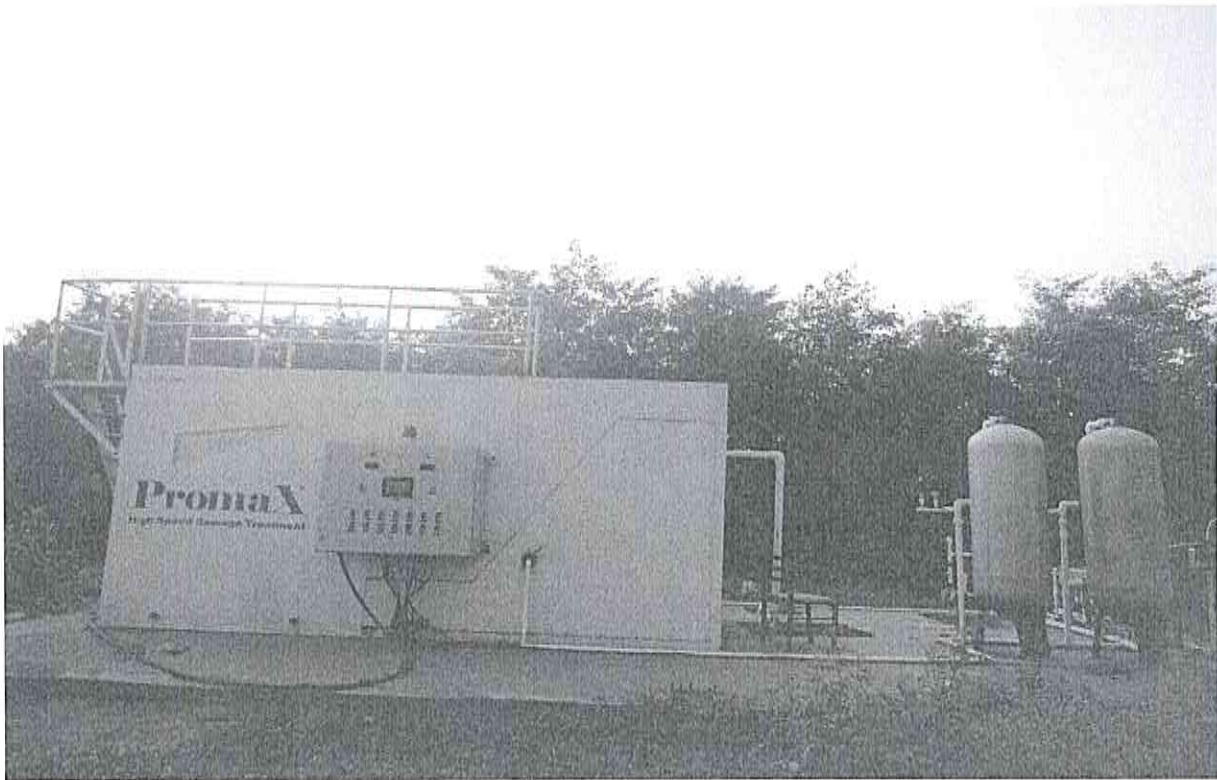
Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Shivani Kr. Singh Lab Analyst		Verified by Brijnandan Kumar Section In-Charge		Authorized Signatory Pollution & Environment Yugantar Bharati Analytical & Environmental Engineering Laboratory		Issued by Umesh Das Technical Manager	
Branch Office :-		Jamshedpur	Dhanbad	Hazaribag	Pakur		

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

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

Sewage Treatment Plant



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

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

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

फीस रूप (Fee Rs.) 50000/- per year

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

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

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

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

December 15, 2011

Chief Controller of Explosives

1). Amendment dated - 23/12/2011

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

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

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

पेज सं. 2

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

नवीनीकरण के पृष्ठान्न के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में यह अनुमति फिस में बिना किसी छूट 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.

नवीनीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुमति प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority
1).	31/12/2013	Sd/- PESO ADMIN
2).	23/09/2013	31/12/2018 Sd/- R.P.Singh Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Ranchi
3).	19/02/2019	31/12/2022 K. Thiagarajan Dy. Chief Controller of Explosives Ranchi

K. Thiagarajan
 सप मुख्या विस्फोटक निरीक्षक, राँची
 Dy. Chief Controller of Explosives, Ranchi

यदि अनुमति परितर इसने उपावद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुमति गंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुमति रद्द की जा सकती है और अनुमतिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चात्तर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

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

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government of India Enterprise)

QUALITY CONTROL LABORATORY

Visakha New Terminal

CONVENT JN.-SHEELANAGAR ROAD, BEHIND AIRPORT,

VISAKHAPATNAM- 530014

TEST REPORT

Product : HP INDUSTRIAL DIESEL OIL

Customer / Supplier /	: NBOT-BONDED TANKS-PSD	Test Report No.	: BFT/14486
Branch Plant		Date of Sample Drawn	: 11/06/21
Source of Sample	: TK104 (TMB SAMPLES)	Date of Sample Receipt	: 11/06/21
Tank No	: TK104	Date of Sample Testing	: 11/06/21
Qty of Sample/	: 3 X 1 \ T - 845.6, M - 845.6, B - 845.5,		
Density/Type of Sample		Date of Report	: 11/06/21
Catg / Evnt / Actvty	: Aft Receipt thru Dedicated P/L	Date of Printing	: 11/06/21
Receipt/Despatch Mode	: LDO\PL\VR\35\2021\VBOT\104\09	JDE Sample Number	: 1051882
Sample Drawn by	: RAJU	Batch No	:

Test Line Number	Characteristics	Units	Test Method	Specifications		Result Value
				Min	Max	
1	APPEARANCE	-	VISUAL	DARK	DARK	DARK
2	DENSITY@ 15°C -TOP	kg/m3	IS 1448 [P :16]	-	-	845.4
3	DENSITY@ 15°C - MIDDLE	kg/m3	IS 1448 [P :16]	-	-	845.4
4	DENSITY@ 15°C - BOTTOM	kg/m3	IS 1448 [P :16]	-	-	845.4
5	DENSITY@ 15°C	kg/m3	IS 1448 [P :16]	-	-	845.4
6	KINEMATIC VISCOSITY @ 40° C	cSt	IS 1448 P :25	2.500	15.000	3.720
7	FLASH POINT - PMCC	°C	IS 1448 P :21	66	-	75
8	WATER CONTENT	% Vol	IS 1448 P :40	-	.250	.100
9	TOTAL SULPHUR	% Mass	ASTM D 4294	-	1.50	.65
10	POUR POINT SUMMER	°C	IS 1448 P :10	-	21	-9

Remarks:

Sample S.No.BFT/151 meets specification as per IS-15770:2008(Reaffirmed2014)in the above parameters.

- 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

Authorised Signatory 35323320
VELAMURI DATTATREYA

*** END OF TEST REPORT ***

Page No. : 1 of 1



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.			T	C	7	8	1	3	2	1	2	0	0	0	0	7	6	6	
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Work Zone Noise						
Report Release Date		18 th October, 2021						Report ID					YBAEEL-210911-101515- N01						
W. Order / JSPCB App. No.		3030005309						Work Order Date					27.02.2021						
Type of Industry (If any)		Thermal Power Plant						Job code/ Ref. no.					YBAEEL/WA/L/A/Oct-21/01						
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. VIII.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Period		28/09/2021 – 29/09/2021					Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS : 9989:1981 (RA 2020), CPCB (Factory Act 1948)																	
Meteorological Cond. of Field		W.C.– Cloudy					RH % - 68					Temp. - 28°C							
Sample receipt Date		01/10/2021		Analysis Started on			01/10/2021			Analysis completed on			12/10/2021						

*****Test Results*****

Sl	Locations	Parameters	Units	MU %	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	Limit
1.	Turbine Floor	Leq	dB (A)	1.003	81.5	84.2	85
2.	Compressor House	Leq	dB (A)	1.003	84.4	84.1	
3.	Cooling Tower	Leq	dB (A)	1.003	84.8	81.7	
4.	Coal Crushing	Leq	dB (A)	1.003	63.8	53.4	
5.	Boiler Feed Pump	Leq	dB (A)	1.003	76.8	77.2	

*****End of Report*****

Limit is specified as	Factory Act, 1948
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples Comply with prescribed limits

Tested by Amit Kumar Sinha Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Umesh Das Technical Manager

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

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

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





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Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
Certified by :- An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.		T C 7 8 1 3 2 1 2 0 0 0 0 7 6 7												
Discipline	Chemical	Group	Atmospheric Pollution				Sample Description				Ambient Noise			
Report Release Date	18 th October, 2021				Report ID				YBAEEL-210911-101515- N02					
W. Order / JSPCB App. No.	3030005309				Work Order Date				27.02.2021					
Type of Industry (if any)	Thermal Power Plant				Job code/ Ref. no.				YBAEEL/WAIL/A/Oct-21/02					
Report Issue to	M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand													
Sampling Period	28/09/2021 – 29/09/2021				Mode of sample collection				By YBAEEL Team					
Sampling Protocol	IS 9989:1981 (RA 2020) & CPCB Method S.O.50 (E) dated 11/01/2010													
Meteorological Cond. of Field	W.C.- Cloudy				RH % - 68				Temp. - 28°C					
Sample receipt Date	01/10/2021		Analysis Started on		01/10/2021		Analysis completed on		12/10/2021					

*****Test Results*****

Sl	Locations	Parameters	Units	MU %	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	Limits
1.	Reservoir	Leq	dB (A)	1.32	55.2	53.3	Day – 75 Night – 70
2.	Main Gate	Leq	dB (A)	1.32	61.2	56.0	
3.	Occupational Health Centre	Leq	dB (A)	1.32	52.5	49.2	
4.	Sati Steel	Leq	dB (A)	1.32	49.0	51.4	

*****End of Report*****

- Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority. - Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority. - dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.	Area		Unit	Day Time	Night time
	A	Industrial Area	dB (A)	75.0	70.0
	B	Commercial Area	dB (A)	65.0	55.0
	C	Residential Area	dB (A)	55.0	45.0
	D	Silence Zone	dB (A)	50.0	40.0

Limit is specified as	Noise pollution (Regulation & Control) Rules, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge.
	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise.
	The liability of the laboratory is limited to the invoiced amount.
Remarks	All disputes are subjected to the Ranchi Jurisdiction.
	Samples Comply with prescribed limits

 Tested by Amit Kumar Sinha Lab Analyst	 Verified by Brij Nandan Kumar Section In-Charge	 Authorized Signatory Atmospheric Pollution Technical Manager	Issued by Umesh Das

Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

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

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



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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)
 Certified by: - An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.			T	C	7	8	1	3	2	1	2	0	0	0	0	7	6	2	
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Ambient Air Quality (Core Zone)						
Report Release Date		18 th October, 2021						Report ID			YBAEEL-210911-101515- A01								
W. Order/ JSPCB App. No.		3030005309						Work Order Date			27.02.2021								
Type of Industry (if any)		Thermal Power Plant						Job code/ Ref. no.			YBAEEL/WA/LIA/Oct-21/01								
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																	
Sampling Period		28/09/2021 – 29/09/2021					Mode of sample collection					By YBAEEL Team							
Sampling Protocol		IS:5182 and CPCB Air Manual Volume-1 (NAAQM/36/2012-13)																	
Sampling Locations		A. Bachelor Hostel					B.Switch Yard					C. Sati Steel (CHP Area)							
Meteorological Cond. of Field		W.C.- Cloudy				RH % - 68				Temp. - 28°C				W.D.- North - South					
Sample receipt Date		01/10/2021		Analysis Started on			01/10/2021			Analysis completed on				12/10/2021					

*****Test Results*****

Parameters	Test Methods	Units	MU %	Sampling Location			Limits
				Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2017	µg/m ³	2.68	74.1	72.5	94.3	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m ³	2.60	50.7	41.3	53.4	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m ³	7.84	15.2	16.9	13.0	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	4.17	29.8	37.0	28.8	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	3.7	20.1	29.0	47.0	400
Ozone (O ₃)	IS:5182 (P-09) 1974	µg/m ³	9.09	32.5	37.3	31.8	180
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m ³	–	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	0.4
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m ³	7.95	0.01	0.03	BDL (MDL 0.004)	0.1
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m ³	14.71	BDL (MDL- 4)	BDL (MDL- 4)	BDL (MDL- 4)	2.0
Arsenic (As)	USEPA – IO 3.2	ng/m ³	2.05	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	0.6
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	µg/m ³	10.94	BDL (MDL 0.06)	BDL (MDL 0.06)	BDL (MDL 0.06)	0.5
Benzo (a)pyrene (BaP) Particulate Phase Only	IS:5182 (P-12) 2004	ng/m ³	–	BDL (MDL 0.2)	BDL (MDL 0.2)	BDL (MDL 0.2)	0.1

*****End of Report*****

Limit is specified as	Environmental (Protection) Rule – 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab in-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples Comply with prescribed limits

Tested by Amit Kumar Sinha Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Atmospheric Pollution Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
Branch Office :-	Jamshedpur	Dhanbad	Envil Hazaribag



ISO 45001:2018

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



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
 Certified by :- An ISO 9001:2015 & ISO 45001:2018



ANALYTICAL TEST REPORT

URL (Unique Lab Report) No.			T	C	7	8	1	3	2	1	2	0	0	0	0	7	6	3
Discipline	Chemical	Group	Atmospheric Pollution						Sample Description				Ambient Air Quality (Buffer Zone)					
Report Release Date		18 th October, 2021						Report ID				YBAEEL-210911-101515- A02						
W. Order/ JSPCB App. No.		3030005309						Work Order Date				27.02.2021						
Type of Industry (If any)		Thermal Power Plant						Job code/ Ref. no.				YBAEEL/WA/L/A/Oct-21/02						
Report Issue to		M/s Adhunik Power & Natural Resources Ltd. Vill.-Padampur, PGCILS, Kandra-832402, Seraikela-Kharsawan, Jharkhand																
Sampling Period		29/09/2021 – 30/09/2021						Mode of sample collection				By YBAEEL Team						
Sampling Protocol		IS:5182 and CPCB Air Manual Volume-1 (NAAQM/36/2012-13)																
Sampling Locations		A. Pindrabera Village						B. Srirampur Village				C. Padampur Village						
Meteorological Cond. of Field		W.C.– Cloudy				RH % - 66				Temp. - 29°C				W.D.– North - South				
Sample receipt Date		01/10/2021			Analysis Started on			01/10/2021			Analysis completed on			12/10/2021				

*****Test Results*****

Parameters	Test Methods	Units	MU %	Sampling Location			Limits
				Site A	Site B	Site C	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2017	µg/m ³	2.68	93.8	92.3	96.7	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m ³	2.60	45.3	52.8	58.2	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m ³	7.84	26.2	18.5	24.6	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	4.17	40.1	35.0	44.2	80
Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	3.7	31.8	24.1	89.3	400
Ozone (O ₃)	IS:5182 (P-09) 1974	µg/m ³	9.09	31.0	30.2	31.4	180
Carbon Monoxide (CO)	SOP No. YBAEEL/SOP/AIR/01	mg/m ³	--	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	04
Lead (Pb)	IS:5182 (P-22) 2004, RA 2019	µg/m ³	7.95	0.05	BDL (MDL 0.004)	BDL (MDL 0.004)	01
Nickel (Ni)	IS:5182 (P-26) 2020	ng/m ³	14.71	BDL (MDL- 4)	BDL (MDL- 4)	BDL (MDL- 4)	20
Arsenic (As)	USEPA - IO 3.2	ng/m ³	2.05	BDL (MDL -02)	BDL (MDL -02)	BDL (MDL -02)	06
Benzene (C ₆ H ₆)	IS:5182 (P-11) 2006	µg/m ³	10.94	BDL (MDL 0.06)	BDL (MDL 0.06)	BDL (MDL 0.06)	05
Benzo (a)pyrene (BaP) Particulate Phase Only	IS:5182 (P-12) 2004	ng/m ³	--	BDL (MDL 0.2)	BDL (MDL 0.2)	BDL (MDL 0.2)	01

*****End of Report*****

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples Comply with prescribed limits

Tested by Amit Kumar Sinha Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Atmospheric Pollution Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Des Technical Manager
Branch Office :-	Jamshedpur	Dhanbad	Enr Hazaribag



ISO 45001:2018

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ISO 9001:2015



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

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

Office Order

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

Roles & Responsibility of Environment Cell

Following the broad scope of the Cell

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

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

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

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

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

Website : www.adhunikgroup.com



ADHUNIK POWER & NATURAL RESOURCES LIMITED

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CIN - U40101WB2005PLC102935

05.08.2016

Annexure I

Responsibilities of the members of the environment management cell

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

Sr. Manager (HR)

CORPORATE OFFICE : "LANSDOWNE TOWER", 2nd Floor, 2/1A, Sarat Bose Road, Kolkata - 700 020
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CIN - U40101WB2005PLC102935

2/2

Ref No APNRL/JSPCB/ES/2020-21/02

Date: 20th Sep 2021

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

Sub- Submission of Environmental Statement (Form V) for Unit II (1 x 270 MW) of M/s
Adhunik Power & Natural Resources Limited, Village- Padampur, Dist- Saraikela-
Kharsawan, 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 2020-21.

This is for your kind information & record please.

Thanking You

Yours faithfully

Kamlesh Kumar
Manager (Environment)

Encl: As mentioned above

CC: 1. Regional Office (ECZ),

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

2. Regional Officer

Jharkhand Pollution Control Board
Jamshedpur, Jharkhand

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

REGD. OFFICE

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Website

: www.adhunikpower.com



23/9/2021





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Phone : +91 - 657 - 6628400, Fax : +91 - 657 - 6628440
CIN - U40101WB2005PLC

Ref: MOE&F, RNC/HYC/KKJ/26521/02

To,

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

EO492050117IN IVR:6974492050
SPF MANGU SO (831012)
Counter No:3,27/05/2021,12:15
To:REGIONAL OFFICE OF E F & C, India Post
PIN:834002, Dorenda HO
From:KAMLESH KUM, ADHUNIK POWER
Wt:310gms
Amt:76.70 (Cash) Tax:11.70
<Track on www.indiapost.gov.in>
<Dial 18002666666> <Wear Masks, Stay Safe>

Sub:- Submission of Half yearly compliance status report (Unit II) for the period - October 2020 to March 2021 -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 2020 to March 2021.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited


(Authorized Signatory)

Encl: As Above

Copy to:

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



EO492050125IN IVR:6974492050
SPF MANGU SO (831012)
Counter No:3,27/05/2021,12:15
To:MEMBER SECRETARY, J S P C BOARD
PIN:834004, Shurea SO
From:KAMLESH KUM, ADHUNIK POWER
Wt:310gms
Amt:76.70 (Cash) Tax:11.70
<Track on www.indiapost.gov.in>
<Dial 18002666666> <Wear Masks, Stay Safe>

EO492050369IN IVR:6974492050
SPF MANGU SO (831012)
Counter No:3,27/05/2021,12:15
To:J S P C BOARD, KOLKATA
PIN:700107, Nadurdaha SO
From:KAMLESH KUM, ADHUNIK POWER
Wt:310gms
Amt:106.20 (Cash) Tax:16.20
<Track on www.indiapost.gov.in>
<Dial 18002666666> <Wear Masks, Stay Safe>



EO492050240IN IVR:6974492050
SPF MANGU SO (831012)
Counter No:3,27/05/2021,12:15
To:REGIONAL OFFICER, J S P C BOARD
PIN:831013, Adityapur SO
From:KAMLESH KUM, ADHUNIK POWER
Wt:340gms
Amt:33.40 (Cash) Tax:5.40
<Track on www.indiapost.gov.in>
<Dial 18002666666> <Wear Masks, Stay Safe>



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