



Power

Ref: APL/APJL/EMD/EC/MoEFCC/226/11/24
Date- 26/11/2024

To,

The Additional Principal Chief Conservator of Forest
Ministry of Environment, Forest and Climate Change
Regional Office, East Central Region
Second Floor, Headquarter-Jharkhand State Housing Board,
Harmu Chowk, Ranchi- 834 002, Jharkhand

Sub: Six Monthly Compliance Status of Environment Clearances for Godda Thermal Power Plant at Motia, Patwa & Adjacent Villages. Godda Tehsil, Godda District in Jharkhand.

Ref: Environment Clearance Letter no: **J-13012/01/2016-IA.I (T)**, Dated: **31.08.2017** & Amendment dated 03.09.2019 & 27.02.2020.

Dear Sir,

With reference to above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) compliance status report along with Environmental monitoring results like Ambient Air Quality, Noise level, Water Quality, green belt & CSR progress report etc. for the period of **April'2024 to September'2024** in soft (**e-mail**).

This is for your kind information & record please.

Thanking You,

Yours faithfully,

for **Adani Power (Jharkhand) Limited**

(R N Shukla)
Authorized Signatory

Encl: as above

cc:

Member Secretary
Central Pollution Control Board
Parivesh Bhavan, East Arjun Nagar
New Delhi- 110 032.

Member Secretary,
Jharkhand Pollution Control Board
TA Division Building (Ground Floor), HEC,
Dhurwa, Ranchi-834 004 (JH)

The Regional Officer,
Jharkhand Pollution Control Board,
Dumka, Jharkhand

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**SIX MONTHLY COMPLIANCE REPORT OF
ENVIRONMENTAL CLEARANCE (EC)**

1600 (2×800) MW THERMAL POWER PLANT

At

**GODDA TALUKA, GODDA DISTRICT
JHARKHAND**

Submitted to:

**Integrated Regional Office, Ranchi
Ministry of Environment, Forest & Climate Change,
Central Pollution Control Board, New Delhi &
Jharkhand State Pollution Control Board, Ranchi**



Submitted By:

**Environment Management Department
Adani Power (Jharkhand) Limited
Motia, Patwa & Adjacent Village,
Godda Taluka, Godda District
Jharkhand**

Period: April'2024 – September'2024

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Introduction

Adani Power (Jharkhand) Ltd. AP(J)L, a wholly owned company of Adani Power Limited has established 1600 (2x800) MW Coal-based Ultra Supercritical Thermal Power Plant at Village Motia, Patwa and adjacent villages of Godda & Poraiyahaat Blocks of Godda District in Jharkhand. The power plant is based on ultra-supercritical, energy efficient & environment friendly technology.

AP(J)L has been granted Environmental Clearances & Consent to Establish (CTE/NOC) followed by Consent to Operate (CTO) by Ministry of Environment & Forest and Jharkhand state Pollution Control Board respectively and AP(J)L has also obtained all necessary statutory / mandatory clearance respectively.

India and Bangladesh desire to enhance traditional ties of friendship, through economic cooperation. Realizing the ever-increasing demand of electricity for the socio-economic development and progress, the Government of India (GoI) and Government of Bangladesh (GoB) have signed a Memorandum of Understanding (MoU) on 11 January' 2010.

As provided in the MoU, GoB and GoI shall inter-alia undertake to encourage and facilitate joint co-operation between the parties in Power generation, transmission, energy efficiency and development of various types of renewable energy.

Accordingly, Adani Power Limited (APL) on 11.08.2015 signed a MoU with Bangladesh Power Development Board (BPDB), to develop a 2x800 MW thermal power plant on BOO basis in India and supply the entire power generated to Bangladesh Power Development Board (BPDB) through a dedicated Transmission Line.

Status of the Project:

AP(J)L has been granted Environment Clearances (EC) vide Letter no: J13012/01/2016-IA.I (T) dated: 31.08.2017 and amendment in EC vide letter dated 03.09.2019 for changing the source of water from Chir River to Ganga River. AP(J)L has also been granted amended EC vide Letter No: J-13012/01/2016-IA.I (T) dated 27.02.2020 to incorporate sector specific Special Economic Zone for Power under SL.No.7(C) of Schedule as mentioned in EIA Notification, 2006.

"Consent to Operate" has been renewed from Jharkhand State Pollution Control Board vide letter no. JSPCB/HO/RNC/CTO- 16603125/2023/1463 dated 19.08.2023 having validity till 30.09.2027.

COD of Unit 1 & 2 (2x800) MW achieved on 00:00hrs on 6th April 2023 (midnight of 5th April 2023) and 23:30 Hrs on 25th June 2023 respectively. Now, both Units are operational.

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Compliance Status of Environmental Clearance

1600 (2×800) MW Godda Thermal Power Plant

**Environment Clearance Letter no: J-13012/01/2016-IA.I (T) dated: 31.08.2017 &
Its Subsequent Amendment Letter no. J-13012/01/2016-IA.I (T) dated
03.09.2019 and 27.02.2020**

Sl. No.	Specific Conditions	Compliance Status
(i)	Total Ash and Sulphur content in the imported coal shall not exceed 25% and 0.5% respectively.	Information towards change in Coal Source is being submitted regularly to MoEFCC, CPCB & JSPCB. Intimation letter is enclosed as Annexure - X COD of 1st Unit (800 MW) achieved on 00:00 Hrs of 6th April 2023 (mid night of 5th April 2023) and unit 2 on 23:30 Hrs of 25th June 2023.
(ii)	Land acquisition shall be carried out by the State Govt. in accordance with Santhal Pargana Tenancy Act, 1949, Right of Fair Compensation and Transparency in the Land Acquisition, Rehabilitation Act, 2013 and other prevailing laws. Documents in support of land acquisition after completion acquisition process shall be submitted to this Ministry as well as concerned Regional Office.	Complied. Land already acquired & Land possession documents has already been submitted.
(iii)	As per the Revised Tariff Policy notified by Minister of Power vide dated 28.01.2016, project proponent shall explore the use of treated sewage water from the Sewage treatment plant of Municipality / local / similar organization located within 50 km radius of the proposed power project to minimize the water drawl from surface water bodies.	There are no STPs of municipality/local bodies within 50 KM of the site.
(iv)	Compliance of EC conditions, E(P) Act 1986, Rules and MoEF&CC Notifications issued time to time shall be achieved by a qualified environment officer to be nominated by the Project Head of the company who shall be responsible for implementation and necessary compliance.	Complied We have already established the Environment Management Division with Senior Management at Corporate level as well as Qualified Environment Officer at Site.
(v)	MoEF&CC Notification S.O. 3305 (E) dated 07.12.2015 and subsequent notifications issued time to time shall be implemented with respect to specific water consumption, zero liquid discharge and revised emission standards. The PM, SO ₂ , NO _x and Hg emissions shall not exceed 30 mg/Nm ³ , 100 mg/Nm ³ , 100 mg/Nm ³ and 0.03 mg/Nm ³ respectively. The specific water consumption exceed shall not exceed 2.5	Being complied. High efficiency Electrostatic Precipitators (ESP) are installed and operational to meet emission standard of <30 mg/ Nm ³ for PM. We have installed wet limestone based FGD system to control SO ₂ and provided SCR to limit NO _x emission well within the stipulated norms.

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	m ³ /MWh and zero wastewater discharge shall be achieved.	Specific Water consumption for reporting period (April'24 to September '24) is 2.32 m ³ /MWh which is well within the limit i.e., < 3.0 m ³ /MWh and Zero Liquid discharge (ZLD) implemented.
(vi)	MoEF&CC Notifications on Fly ash utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804 (E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 and subsequent amendments shall be complied with.	Being complied. COD of 1 st Unit (800 MW) achieved on 00:00 Hrs of 6th April 2023 (mid night of 5th April 2023) and 2 nd Unit on 23:30 Hrs of 25 th June 2023. Implementation status of fly ash utilization is enclosed herewith as Annexure - V
(vii)	Separate Environmental Clearance may be obtained for the proposed Township as applicable under EIA notification 2006.	Complied Separate Environment Clearance has been granted by SEIAA; Jharkhand for Residential Township vide letter No. EC/SEIAA/2017-18/2070/2017/207 dated 31/08/2018.
(viii)	Solar rooftops shall be installed in the surrounding villages as part of CSR activities.	Being complied. Fifteen (15) Nos. of Solar Street Lights installed in 12 remotest villages and roadside points in 3 blocks namely Borio, Mandro and Sahebganj which is benefiting more than 10,000 rural population.
(ix)	Skill mapping of the Project affected people (PAF) be carried out on a long-term basis for their livelihood generation. A report is to be submitted within 3 months to the Ministry from the date of issuance of environmental clearance.	Complied. Skill Mapping Report prepared by M/s Indian Institute of Social Welfare & Business Management (IISWBM) Kolkata has already been submitted to your good office along with compliance report. Adani Skill development Centre is operational and in the current year 2024-25, a total of 221 candidates are enrolled including 64 candidates in Fitter Mechanical Assembly, 104 in Domestic Data Entry Operator trade and 53 admissions done in SMO trade in new session 2024-25 . Detailed CSR report is attached as Annexure - VIII .
(x)	Modern methods of agriculture organic forming, compost / vermiculture making and utilization, drip/direct to root irrigation to be promoted in and around the Project area.	Being complied. Vermicomposting program enables farmers to uplift their socio-economic condition in more than 13 villages. In this year 2024-25 , a total of 38 new farmers (20 farmers in pipeline area and 19 farmers in core area) are provided with 39 units of Vermibed along with training on vermicompost unit installation.

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		So far, more than 300 new farmers have been given training on Vermicomposting this year. Detailed CSR report is enclosed as Annexure- VIII.
(xi)	<p>While implementing CSR,</p> <ul style="list-style-type: none"> • Women empowerment is important. Therefore, proper skill based training/long term livelihood revenue generation be created for all of them. • Computer facilities may be provided in the school along with a trained computer teacher to inculcate computer skill among the youths. • Water supply provisions shall be made for all the bio-toilets under Swachh Bharat Abhiyan. • Preventive health programme may be preferred than the curative health programme such as nutrition development of small children and around the project. 	<p>Being Complied.</p> <ul style="list-style-type: none"> • Adani Foundation supported the Women Self Group- Phoolo Jhano Saksham Sakhi Mandal (PJSASM) in accomplishment of 1,16,713 Flags assigned by district administration under the National Campaign "Har Ghar Tiranga". More than 200 women earned income from Flag stitching work. Also, in September 2024 Over 150 Household surveys conducted for mushroom cultivation project as per meeting held with 10 SHG members for promoting cultivation of Oyster mushrooms. • Adani Foundation in partnership with District Administration launched Gyanodaya project to promote e-learning through Smart Classes. Gyanodaya bagged "Indian Chamber Of Commerce (ICC) Social Impact Award -Promoting Education" for providing quality education in remotest and untapped villages of Godda district through smart learning among more than 8000 students of 316 government schools. • Digital Literacy classes are operational which benefited 4600 candidates. • We have constructed model bathrooms with soak pit in various villages towards creating awareness for cleanliness and hygiene by our program named "SWACCHAGRIH". • Curative health program being taken care under "SuPoshan" program. <p>Detailed CSR report is attached as Annexure - VIII.</p>
(xii)	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	<p>Complied.</p> <p>Vision document has already been submitted along with compliance report.</p>
(xiii)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and the status of implementation including actual generation of solar power shall	<p>Noted and compliance assured.</p> <p>It is proposed to utilize the roof tops of buildings which are feasible for installation of solar panels.</p>

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	be submitted along with half yearly monitoring report.	6 Nos. of Solar streetlights are installed at plant premises and 30 additional Solar Street Lights shall be installed by the end of this F.Y.
(xiv)	A long-term study of radio activity and heavy metals content on coal to be used shall be carried out through a reputed institute and results thereof analysed every two year and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	<p>Being complied.</p> <p>Radioactivity testing result/report of two Coal samples (testing done by Board of Radiation and Isotope technology, Mumbai) from the source area already submitted along with EIA Report.</p> <p>Further, Radioactivity test report of Coal and Ash (Fly ash & Bottom Ash) is enclosed as Annexure – XI.</p> <p>Heavy metal analysis of Coal is enclosed as Annexure- VI.</p> <p>Fly ash and bottom ash analysis report is enclosed as Annexure – VII.</p> <p>The technology and monitoring instruments for an in-built continuous monitoring is not available with the suppliers in the country and is not feasible to continuously monitor for radioactivity and heavy metal in coal and fly ash.</p> <p>There is no proven technology to monitor radioactivity at plant level on continuous basis. Periodic test report will be submitted.</p>
(xv)	Online continuous monitoring system for stack emission, ambient air and effluent shall be installed.	<p>Complied.</p> <p>AP(J)L has already installed Online Continuous Emission Monitoring (CEMS) System (both stack) to monitor Stack Emission & Continuous Ambient Air Quality Monitoring Stations – 3 Nos. at three different locations within the plant premises (close to the boundary wall) and Effluent Quality monitoring System at ETP.</p> <p>Continuous emission monitoring (CEMS) & Continuous Ambient Air Quality monitoring (CAAQMS) report is enclosed as Annexure II & III respectively.</p>
(xvi)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that a particulate emission does not exceed 30 mg/Nm ³ as would be notified by the Ministry, whichever is stringent. 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	<p>Complied.</p> <p>High efficiency Electrostatic Precipitators (ESP) has been installed in each boiler to meet PM emission of less than 30 mg/Nm³.</p> <p>Dust extraction system (Cyclone followed by bag filters) in coal crusher and coal transfer area (JNTs), rain gun type dust suppression system in coal yard and dry fog type dust suppression system in belt conveyor have</p>

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	shall be provided along with an environment friendly sludge disposal system.	been installed. Movable water fog cannons installed at ash Handling point (silo).
(xvii)	Adequate dust extraction system such as cyclones / bag filters and water spray system in dusty areas in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Dust extraction system has been installed in Crusher House, wagon tippler & Fly Ash Silo area. In addition to this dry fog systems have been installed in wagon tippler area and fly ash Silo area. Pneumatic ash handling system with bag filters for ash handling & rain gun type water sprinkling system provided and operational in Coal yard.
(xviii)	Monitoring of surface water quantity and quality shall be regularly conducted and records maintained shall be submitted to the Ministry regularly. Further, monitoring system shall be placed between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.	Being complied. Baseline data was collected during EIA study & Regular monitoring of Air, Water (surface & ground) is being carried out. Environmental Parameters monitoring results (including monitoring of Heavy Metals in Ground water) are being submitted periodically to RO, MoEFCC Ranchi, MS JSPCB- Ranchi & RO JSPCB at Dumka. Environmental monitoring reports are enclosed as Annexure – I .
(xix)	A well-designed rainwater harvesting system shall be put in place within six months, which shall comprise of rainwater collection from the built up and open area in the plant premises and detailed report kept of the quantity of water harvested every year and its use.	Complied. Rainwater Harvesting (RWH) implemented and photographic evidence of the same submitted to Jharkhand State Pollution Control Board vide letter no. APJL/ENV/JSPCB/CTO/22 dated 31.10.2022.
(xx)	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.	Complied. No stream/canal is disturbed due activities associated with the setting up/operation of the power plant. Plant boundary constructed in such a manner without disturbing flow and natural drainage pattern.
(xxi)	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.	Being Complied Excavated Soil being utilized within the plant site to the extent possible for levelling and horticulture activities.
(xxii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Mercury and other heavy metals (As, Hg, Cr, Pb, etc.) shall be monitored in the bottom ash. No ash shall be disposed off in low lying area.	Being Complied Monitoring of Mercury and other heavy metals in Fly Ash & bottom ash being carried out and analysis report is enclosed as Annexure - VII Dry Ash collection, pneumatic conveying and storage (silos) facilities are established. Unutilized ash being disposed-off in the ash dyke through HCSD. No ash being disposed-off in low lying area. Prior approval shall be obtained from JSPCB if the same is required in future.

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(xxiii)	No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the state pollution control board and implementation done in close co-ordinate with the State Pollution Control Board.	Noted & Compliance assured. In case of mine void filling option undertaken, detailed study from reputed institute shall be undertaken, adequate lining will be done, and pollution control board shall be consulted.
(xxiv)	Fugitive emission of fly ash (dry and wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided with the local Panchayats.	Being complied. To control fugitive emission, Bag filters are installed at Silo. Conditioned (moist) ash loading is being ensured from fly ash silo. In addition to this Dry Fog systems have been Installed at Silo to control fugitive emissions. TPP will provide suitable compensation if any damage in future.
(xxv)	Green belt consisting of three tiers of plantation of native species all around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80%.	Being complied. Green belt development / plantation and landscaping completed in 83.07-acre area consist of more than 1.2 lacs plantation and rest area is under progress. In addition to plant area, 50819 nos. of Plantation have been done in nearby village are through CSR activities. Our efforts are being made to develop more greenery in & around the plant with survival rate of more than 80%. Green Belt Development details are enclosed as Annexure – IV .
(xxvi)	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	Complied. Green Belt (Dense plantation) along the ash pond and plant boundary developed. Green Belt Development details are enclosed as Annexure – IV .
(xxvii)	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Corporate HSE policy is placed & signed by the Chairman. IMS implementation & certification for the project will be implemented during plant operation.
(xxviii)	CSR schemes identified based on need assessment shall be implemented in consultation with the village Panchayat and the	Being complied. CSR activities are implemented in consultation and collaboration with the community &

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	<p>District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.</p>	<p>community leaders as well as District Administration.</p> <p>Regular community meetings are organized in all the villages to understand the issues of community.</p> <p>Social development activities have been carried out for Need Based families under the CSR activities by Adani Foundation.</p> <p>Need Based Assessment Study and Development of CSR report has already been submitted along with compliance report.</p> <p>Detailed CSR report is enclosed as Annexure-VIII.</p>
(xxix)	<p>For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit committee or a suitable external agency shall be appointed. CSR activities shall be evaluated by an independent external agency. This evaluation shall be both concurrent and final.</p>	<p>Social development activities have been carried out for Need Based families under the CSR activities by Adani Foundation. Evaluation of CSR activities (outcome assessment) is being carried out by third party and assessment report shall be submitted along with upcoming compliance report.</p>
S.N	General Conditions:	Compliance Status
(i)	<p>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 get mixed.</p>	<p>Complied.</p> <p>Generated effluent being treated in ETP and treated effluent conforming to the prescribed standard being reused within the plant.</p> <p>Separate Storm Water Drainage has been established.</p>
(ii)	<p>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.</p>	<p>Being Complied.</p> <p>Sewage Treatment Plants having capacity 2 x 10 m³/h provided and treated water being reuse suitably within the plant premises for green belt development/land scaping.</p>
(iii)	<p>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.</p>	<p>Complied</p> <p>Fire Safety Management Plan is prepared and implemented. Fire Safety Management Plan already submitted along with compliance report of October 2018 to March 2019.</p>
(iv)	<p>Storage facilities for auxiliary liquid fuel such as LDO/ 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.</p>	<p>Complied.</p> <p>LDO has been properly stored within plant premises and license for storage of LDO has been obtained from Petroleum and Explosive Organization (PESO).</p> <p>The license for the same is already submitted along with previous compliance report.</p> <p>DMP already submitted with compliance report of October 2018 to March 2019.</p>

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(v)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied. First aid facilities, drinking water facility, Sanitation facility, Wastewater disposal, solid wastes management and primary health facilities are being ensured at site.
(vi)	Noise levels emanating from turbine shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs / earmuffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Complied Necessary action/prevention measures have been taken care in design to maintain noise level within 85 dBA at source. High Noise areas are identified. Safety signage Boards has been provided with mandatory Personnel Protective Equipment (PPE's) at designated locations. A complete medical check-up with audiometric test of workers & employees is being carried out prior their joining in the organization.
(vii)	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} and 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 limit, 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.	Being complied. Regular monitoring of ground level concentration of Ambient Air for SO ₂ , NO _x , PM _{2.5} and PM ₁₀ and Hg is being carried out and monthly reports are being submitted to the MS, SEIAA & JSPCB Ranchi & RO JSPCB, Dumka. For selection of monitoring location and monitoring frequency in consultation with JSPCB, intimation letter also been submitted to the board vide our letter no. APJL/ENV/JSPCB/RO/0308 dated 31.08.2022. Monitoring frequencies are as below: <ul style="list-style-type: none"> • Ambient Air Quality twice in a week, • Stack Emission Monitoring- Once a month • Water, wastewater quality & Noise once in Month and • Soil Quality once in a season (Except Monsoon). Periodic Environmental monitoring report is enclosed, please refer Annexure- I . EC compliance report is uploaded on the company's website, www.adanipower.com
(viii)	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.	Being Complied. As COD of 1 st Unit (800 MW) achieved on 00:00 Hrs of 6th April 2023 (mid night of 5th April 2023) and 2 nd Unit on 23:00 Hrs of 25 th June 2023. Fly ash generation and utilization Status enclosed as Annexure - V
(ix)	Provision shall be made for housing of the construction labour (as applicable) within the	Complied

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	<p>site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets. Mobile STPs, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the construction of the project.</p>	<p>Required hutment, drinking water, Mobile Toilets. Mobile STPs, Safe Drinking Water & Medical health care facilities, medical health care facilities, Fuel for cooking and other infrastructure has been arranged on temporary basis during plant construction. Local manpower was preferred during Construction phase & hence, less necessity to build housing for the construction labour.</p>
(x)	<p>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</p>	<p>Complied. Advertisement in 10 Local News Papers was published in Hindi & English. Copy of News Paper cutting already submitted along with Oct'17 to March'2018 compliance report.</p>
(xi)	<p>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.</p>	<p>Complied. A copy of the Environment Clearance letter was provided to Panchayats, Zila Parisad and local Body. Acknowledgement already submitted along with compliance report. The clearance letter has been uploaded on the company website http://www.adanipower.com/</p>
(xii)	<p>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 pollutants levels namely SPM, RSPM (PM_{2.5} & PM₁₀), SO₂, 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 photographs.</p>	<p>Being complied. Six monthly compliance status reports are being submitted to MoEF&CC, CPCB & JSPCB. Last compliance report submitted for the period of October '23- March '24 vide letter no. APL/APJL/EMD/EC/MoEFCC/285/05/24 dated 23.05.2024 Compliance status uploaded on Company's website. Digital display board installed at the main gate of the power plant to display environmental monitoring parameters. Environmental monitoring report is enclosed as Annexure- I.</p>
(xiii)	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection)</p>	<p>Noted and Being Complied Consent to Operate renewed by Jharkhand State Pollution Control Board vide letter no. JSPCB/HO/RNC/CTO- 16603125/2023/1463 dated 19.08.2023.</p>

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	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 Minister by e-mail.	Environment statement for the FY 2023 – 24, submitted to JSPCB vide our letter no. APJL/ENV/JSPCB/318/24 dated 31.08.2024 and copy of the same is attached as Annexure-XII .
(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.	Being Complied. Six monthly compliance status reports are regularly submitted to MoEF&CC, CPCB & JSPCB. The same is sent by email also. Last six-monthly compliance report for the period of October '23- March '24 vide letter no. APL/APJL/EMD/EC/MoEFCC/285/05/24 dated 23.05.2024 Compliance status updated on Company's website. https://www.adanipower.com
(xv)	The progress of the project shall be submitted to CEA on six monthly basis.	Report Submission to CEA is not applicable as Project is dedicated to Bangladesh Govt. and it is not connected to Indian Grid. However, both units i.e., unit 1 & 2 (2 x 800MW) has been successfully achieved COD on 00:00hrs on 6 th April 2023 (midnight of 5 th April 2023) and 23:30 Hrs on 25 th June 2023 respectively. Now, both units are operational.
(xvi)	Regional Office of the MoEF&CC 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 reference during monitoring. Criteria pollutants levels including NO _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	Complied. Copies of Environment Impact Assessment report (EIA) with Environment Management Plan already sent to Regional Office, Ranchi, vide our letter no. APJL/ENV/EC/SMR/175 /05/2018, dated-14.05.2018 Digital display board installed at the main gate of the power plant to display environmental monitoring parameters.
(xvii)	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.	Complied Separate budget has been already allocated for Environmental protection measures. Fund for Environment management: Capital Cost: Rs. 2,225.68 Crores Expenditure for the period of April'24 – September '24 enclosed as Annexure - IX
(xviii)	The project authorities shall inform the Regional Office as well as the Ministry regarding	Complied

ADANI POWER (JHARKHAND) LIMITED, GODDA

	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.	Financial closures have been achieved and disclosed. Construction works are completed. COD of 1 st Unit (800 MW) achieved on 00:00 Hrs of 6th April 2023 (mid night of 5th April 2023) and unit 2 on 23:30 Hrs of 25 th June 2023. Consent to Operate renewed by Jharkhand State Pollution Control Board vide letter no. JSPCB/HO/RNC/CTO- 16603125/2023/1463 dated 19.08.2023.
(xix)	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.	Noted. Full co-operation shall be extended all time.
Conditions of EC Amendment		
(i)	Stage-I Forest Clearance for diversion of 13.3293 ha for laying pipeline shall be submitted. As per Ministry's guidelines, a formal amendment will be issued after furnishing the Stage-I Clearance.	The copy of stage – I submitted before amendment. This condition stands deleted as per amended EC Vide No. J -13012/01/2016-I.A.I (T) dated 27.02.2020.
(ii)	In line with Ministry's OM dated 11.3.2010 in regard to Oil and Gas pipelines, in a similar manner, 10 trees to be planted for every tree cut in the non-forest area.	Noted. We have consulted Divisional Forest Officer (DFO), Godda vide our letter no. AP(J)L/FC/ENV/227/05/20 date 28.05.2020 to provide plantation scheme with demand note for proposed plantation. Compliance of Stage – I has already been submitted and verified by nodal officer, MoEFCC and also issued the Stage – II FC approval on 29.01.2021.
(iii)	There will be storage reservoirs for storing 15 MCM water to cater during lean season.	Noted and agreed.
(iv)	Daily quantity (Average, minimum and maximum) of fresh water withdrawn from Ganga River near Sahebganj for the Power Plant shall be recorded and data base be preserved to ensure permissible drawl of fresh water from Ganga River. The source sustainability reports for withdrawal of water from Chir River and from the Ganga River shall be placed in the public domain by the proponent, either by uploading to the PARIVESH portal or its own website.	Noted & being followed. Source sustainability reports for withdrawal of water from Chir River and from the Ganga River has been uploaded and is already available on https://parivesh.nic.in/
(v)	As per the original EC, 33% greenbelt of plant area shall be developed. In case of any shortage of land, additional land shall be acquired to meet the condition.	Being complied. Green belt development / plantation and landscaping completed in 83.07-acre area consist of more than 1.2 lacs plantation and rest area is under progress.

ADANI POWER (JHARKHAND) LIMITED, GODDA

		In addition to plant area, 50819 nos. Plantation has been done in nearby village are through CSR activities. Our efforts are being made to develop more greenery in & around the plant with survival rate of more than 80%. Green Belt Development details are enclosed as Annexure - IV.
(vi)	The conditions specified in the In-Principle (Stage-I) Forest Clearance dated 28.6.2019 shall be complied with. A compliance to these conditions shall also be submitted along with Six monthly compliance report. Further, copy of Formal (Stage-II) Approval shall be submitted as and when it is obtained.	Compliance of conditions mentioned in the In-Principle approval (Stage-I) Forest Clearance dated 28.06.2019 has been uploaded on https://parivesh.nic.in/ . Compliance report of Stage - I Forest Clearance submitted along with EC compliance report for the period of Oct'19 to Mar'20. Stage II has been granted vide letter no. FP/JH/Others/32772/2018/4489 dated 29.01.2021. Copy of the same already submitted vide our previous compliance report for the period of October'20 – March'21.
(vii)	The total project area has now been reduced to 558 acres from 1255 acres. The remaining area (if acquired) shall be developed as greenbelt.	Noted. Power plant facilities have been reworked and total project area has now been optimized to 558 acres from 1255 acres.
(viii)	All the conditions prescribed in the permission granted by National Mission for Clean Ganga (NMCG), Ministry of Water Resources, River Development & Ganga Rejuvenation vide their letters dated 8.8.2018 and 16.11.2018 for withdrawal of 36 MCM of water from River Ganga during June to December, shall be complied with.	Noted, agreed and Compliance assured.
Additional Conditions (EC Amendment)		
(i)	The area of 7.7 acres (originally proposed 558 acres & Notified SEZ land: 550.23 acres) shall be developed with greenbelt. Demarcation of this land with co-ordinates and progress of greenbelt is to be submitted in the compliance report.	Noted. Green belt development / plantation and landscaping is in progress and efforts will be made to develop more greenery in & around the plant with survival rate of more than 80%.
(ii)	In para 5 of amended EC dated 03.09.2019, the period of '6 months' be read as '07 months'.	Noted.

HALF YEARLY ENVIRONMENTAL MONITORING REPORT

(PERIOD- APRIL '2024 TO SEPTEMBER' 2024)

Submitted TO:

ADANI POWER (JHARKHAND) LTD.

2X800 MW GODDA THERMAL POWER PLANT

VILLAGE: MOTIA, DISTRICT-GODDA, JHARKHAND



PREPARED BY:

M/s Vibrant Techno Lab Pvt. Ltd.

**Add: SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road
Jaipur (Rajasthan)**

(Recognized by MoEF & CC, NABL Government of India)

FOREWORD

Electric Power scenario has occupied a significant place in the development program of the country. The growing concern for environment protection and enforcement of stringent environmental legislations have increased the responsibilities of both the governing bodies as well as the industries. Hence environmental protection plays a crucial role in maintaining the local environment quality for any industry, throughout their production processes. Hence compliance of the statutory requirements becomes very important to conserve the ecological balance within and surrounding the plant area. Therefore, environmental protection is becoming a prerequisite for sustainable development.

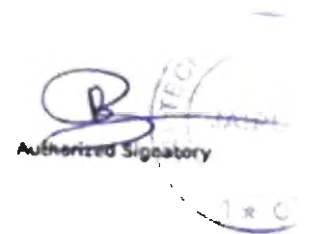
However, the prerequisite for sustainable development is judicious planning of environmental status, likely impacts of the approach adopted on the environment including inhabitants of the locality, availability of the eco-friendly technology, emerging waste disposal and waste utilization processes, techniques of land reclamation for the restoration of aesthetic beauty and adoption of cleaner technologies for power generation.

Adani Power (Jharkhand) Ltd. is a 2x800 MW Godda Thermal Power Plant Located at Village: Motia, District-Godda, Jharkhand, India, has engaged **M/s Vibrant Techno lab Pvt. Ltd. (Raj.)** to provide Environmental Monitoring Services for ambient air quality monitoring, stack emission monitoring, noise level monitoring & Sampling and Analysis of ground water quality, surface water quality, treated effluent, sewage, waste water from ETP, and soil Quality as per prevalent guidelines notified by MoEF & CC an CPCB time to time.

This report presents a summary of the monitoring and analysis data generated for the period from April '2024 to September '2024 i.e., for 1st half of the FY' 24-25.

During the entire monitoring work for the above task, the staff and management of Adani Power (Jharkhand) Ltd. were extremely co-operative. We are grateful to them for their invaluable support and assistance rendered to us during the course of the sampling and monitoring.

Date: 11.11.2024



Authorized Signatory

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Annexure -2	Monitoring Reports
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Annexure 2B	Stack Emission Monitoring and Analysis Report
Annexure 2C	Ground Water Sampling and Analysis Report
Annexure 2D	Surface Water Sampling and Analysis Report
Annexure 2E	STP & ETP Water Sampling and Analysis Report
Annexure 2F	Noise Monitoring Report

SECTION 1: LIST OF EQUIPMENTS

The list of Equipments used in the project is delineated in the following table.

SR. No.	NAME OF EQUIPMENTS	MAKE/MODEL
1.	Respirable Dust Sampler	Enviro Instruments EI-142
2.	Fine Particulate Sampler	Enviro Instruments EI-133
3.	Gases Sampling Attachment	Enviro Instruments EI-061
4.	Sound Level Meter	Mextech
5.	Stack Monitoring kit	Enviro Instruments EI-106
6.	Combo Sampler	Enviro Instruments EI-205
7.	Digital Balance	Dig. Thermo Hygrometer
8.	UV Visible Spectrophotometer	Systronics.,117
9.	Hot Air Oven	Smita Scientific, Cat. No. SHAO-2S/G
10.	Bacteriological Incubator	Smita Scientific, Cat. No. SLBI-2
11.	pH Meter	Systronics.,361
12.	Dissolved Oxygen Test Kit	Lutron
13.	Autoclave Automatic	Smita Scientific, Cat. No. SAUV-2
14.	Horizontal Laminar Air Flow	Smita Scientific, Cat. No. SHLF-1 SG
15.	Muffie Furnace	Smita Scientific, Cat. No. SMFF-3S/G
16.	Conductivity Meter	Systronics, 304
17.	Phase Contrast Microscope	Kane International
18.	COD Digester	Smita Scientific, Cat. No. SCOD-3

Project Name: Adani Power (Jharkhand) Ltd.

2 X 800 MW Godda Thermal Power Project Located at village: Motia, District-Godda, Jharkhand

Environmental Monitoring Report (April 2024 to September 2024)

SECTION 2: LIST OF PROJECT PERSONNEL

S.No.	Name	Qualification	Experience (Yrs.)	Designation
1.	Rajkumar Yadav	MSc. Agriculture	15	Lab Incharge QM
2.	Raja Manish	MSc. Organic Chemistry	3.5	Senior Analyst
3.	Rajiv Das	BSc. Chemistry	2.5	Senior Field Analyst
4.	Rahul Kr. Saini	MSc Chemistry	8.0	Technical Manager

SECTION 3: EXECUTIVE SUMMARY

Adani Power (Jharkhand) Ltd. is a 2x800 MW Godda Thermal Power Plant Located at Village: Motia, District-Godda, Jharkhand, India, has engaged M/s Vibrant Techno lab Pvt. Ltd. (Raj.) to provide Environmental Monitoring Services for ambient air quality monitoring, stack emission monitoring, noise level monitoring & Sampling and Analysis of ground water quality, surface water quality, treated effluent, sewage, waste water from ETP, and soil Quality as per prevalent guidelines notified by MoEF&CC and CPCB time to time.

As per the guidelines, 03 locations have been fixed for Ambient Air Quality Monitoring. Monitoring has been done as per NAAQS 2009 standards and reports are summarized for the period April 2024 to September 2024. The brief has been discussed in Section-7 of the report. (Analysis report attached as **annexure-2A**). Stack monitoring and analysis summary has also been presented for the mentioned period and reports are attached. The brief has been discussed in Section-11 of the report. (Analysis report attached as **annexure – 2B**).

Ground water samples at 04 locations & Surface water sample at 01 location on Quarterly basis. The brief has been discussed in Section-8 of the report (Report attached as **Annexure-2C & 2D**). Wastewater STP & ETP samples on monthly basis were collected and analyzed to understand the overall water quality of the project area. The brief has been discussed in Section-10 of the report. (Analysis report attached as **annexure -2E**).

Ambient Noise Monitoring was done on 10 stations for day & night which is found within limit. The Summary of the result has been analyzed & interpreted in section 9. (**Report has been attached as Annexure-2F**).

Ground water level monitoring done in 04 villages and report is enclosed as **Annexure – 2G**

Soil Quality Monitoring done in 03 villages and report is enclosed as **Annexure – 2H**

SECTION 4: CONCEPT & METHODOLOGY**4.1 Methodology**

In the present study the following are the standard methods used for collection, analysis & interpretation of data:

AAQM Sampling & analysis: "Indian Standards (IS 5182)" "Guidelines for the measurement of Ambient Air Pollutants, Vol-i, CPCB" & "USEPA" methods were used for Ambient Air sampling and analysis to study the present pollution load around the Proposed Project location.

PARAMETERS OF AAQM	STANDARDS METHODS
PM10	IS: 5182 (P-23), 2006
PM2.5	IS 5182 (P-24):2019
Oxides of Nitrogen (NOx)	IS: 5182 (P-6), 2006
Oxides of Sulphur (Sox)	IS: 5182 (P-2), 2001
Carbon Monoxides	IS: 5182 (P-10)1999
Ammonia	3rd ed., 1988 Method No.401
Lead	IS: 5182 (P-22): 2004
Benzene	IS: 5182 (P-11), 2006
Benzo(a)pyrene	IS: 5182(P-12), 2004
O3	IS: 5182(P-9):1974
Nickel	USEPA Compendium IO -3.2, 1999
Arsenic	3rd ed.,1988 Method No.302
Mercury	VTL/STP/02

PARAMETERS OF STACK MONITORING	STANDARDS METHODS
Particulate Matter (PM)	IS: 11255 (P-1): 1985, RA 2019
Oxide of Nitrogen (as NOx)	IS- 11255 (P-7);2005, RA- 2017
Sulphur Dioxide (as SO ₂)	IS: 11255(P- 2): 1985, RA 2019
Mercury (Hg)	USEPA 29::1996

Water Sampling & analysis: Similarly, "Indian Standards (IS 3025)", "USEPA" and "APHA 23rd Edition" were used for water sample collection and analysis.

Project Name: Adani Power (Jharkhand) Ltd.

2 X 800 MW Godda Thermal Power Project Located at village: Motia, District-Godda, Jharkhand

Environmental Monitoring Report (April 2024 to September 2024)

PARAMETERS OF WATER SAMPLE	STANDARD METHODS
pH (at 25 °C)	IS 3025 (P-11): 2022
Colour	IS 3025(P-4): 2021
Turbidity	IS 3025 (P-10): 1984, RA: 2017
Odour	IS 3025 (P-5)1983
Taste	IS 3025(P-8) 1984
Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009, RA: 2019
Calcium as Ca	IS: 3025 (P-40): 1991, RA: 2019
Alkalinity as CaCO ₃	IS: 3025 (P-23): 1986, RA: 2019
Chloride as Cl	IS: 3025(Part 32):1988, RA:2019
Cyanide as CN	IS: 3025 (P-27)1986
Magnesium as Mg	IS: 3025 (P-46): 1994, RA: 2019
Total Dissolved Solids	IS 3025 (P-16): 1984RA: 2017
Sulphate as SO ₄	IS: 3025 (P-24): 1986 Sec.1 RA: 2022
Fluoride as F	APHA (23rd Edition), 4500FD:2017
Nitrate as NO ₃	IS: 3025 (P-34): 1988, (Chromotropic Method) RA: 2022
Iron as Fe	APHA (23rd Edition),3113B: 2017
Aluminum as Al	IS 3025 (P-55):2003, RA: 2019
Boron	APHA (23rd Edition) 4500B: 2017
Total Silica	IS: 3025 (P-35):1888,RA: 2003
Phenolic Compounds	APHA 23rd Edition,2017, 5530 C
Anionic Detergents as MBAS	IS:3025 (P-68) 2019
Zinc as Zn	APHA (23rd Edition), 3030D,3113B: 2017
Copper as Cu	APHA (23rd Edition),3113B: 2017
Manganese as Mn	APHA (23rd Edition)3030D,3113B: 2017
Cadmium as Cd	APHA (23rd Edition)3030D,3113B: 2017
Lead as Pb	APHA (23rd Edition)3030D,3113B: 2017
Selenium as Se	APHA (23rd Edition)3114C,2017
Arsenic as As	APHA (23rd Edition),3114C,2017
Mercury as Hg	APHA (23rd Edition)3112B,2017
Hexa Valent Chromium	APHA (23rd Edition)3500 Cr B:2017
Residual Free Chlorine	IS :3025(P-26): 2021
Temperature	IS :3025(P-9):1984, RA:2017
Total Coliform	IS:15185: 2016
E. coli	IS:15185: 2016

Project Name: Adani Power (Jharkhand) Ltd.

2 X 800 MW Godda Thermal Power Project Located at village: Motia, District-Godda, Jharkhand

Environmental Monitoring Report (April 2024 to September 2024)

PARAMETERS OF STP TREATED & UNTREATED WATER	STANDARD METHODS
pH (at 25 0C)	IS 3025 (P-11): 2022
Total Dissolved Solids	IS 3025 (P-16): 1984RA: 2017
Total Suspended Solids	IS 3025 (P-17): 2022
Oil &Grease	IS 3025 (P-39):2021
BOD (3days at 27 °c)	IS 3025(P-44):1984, RA:2019
COD	IS: 3025 (P-58): 2006, RA: 2017

Noise Level Monitoring: "Protocol for Ambient Level Noise Monitoring, IS 9989: RA 2020" was followed to monitor the Ambient Noise level surrounding the Project Site.

PARAMETERS	STANDARD METHODS
Leq	IS 9989-1981 RA: 2020

A brief account of the methodologies and matrices followed in the present study is given under different headings. All the methods were structured for the identification, collection and organization of environmental impacts data. The information, thus gathered, had been analyzed and presented in the form of a number of visual formats for easy interpretation and decision making.

SECTION 5: PLAN FOR SAMPLING LOCATIONS

The scenario of the Ambient Air Quality in the study region has been assessed through a network of 03 locations of Ambient Air Quality Monitoring. The design of monitoring network in the air quality surveillance program was based on the following considerations.

- Topography / Terrain of the study area.
- Human Settlements
- Wind pattern.
- Health status
- Representation of regional Background levels.
- Accessibility of monitoring site.
- Resource availability.

A synopsis about the locations is as follows:

AAQM LOCATION

- Near Nayabad Village (Close to plant boundary)
- Near Mali Village (Close to plant boundary)
- Near Motia Village (Close to plant boundary)

STACK MONITORING LOCATION

- Unit-01
- Unit-02
- D.G Set Plant
- D.G Set Township

GROUND WATER SAMPLE'S LOCATION

- Mali Village
- Motiya Village
- Naya Bad Village
- Patwa Village

SURFACE WATER LOCATION

- Ganga River

WASTE WATER SAMPLING LOCATION

- STP Outlets (Township)

- STP Outlets (Plant)
- STP Inlet (Township)
- STP Inlets (Plant)
- ETP Outlet
- ETP Inlet

SECTION-6: METEOROLOGICAL DATA

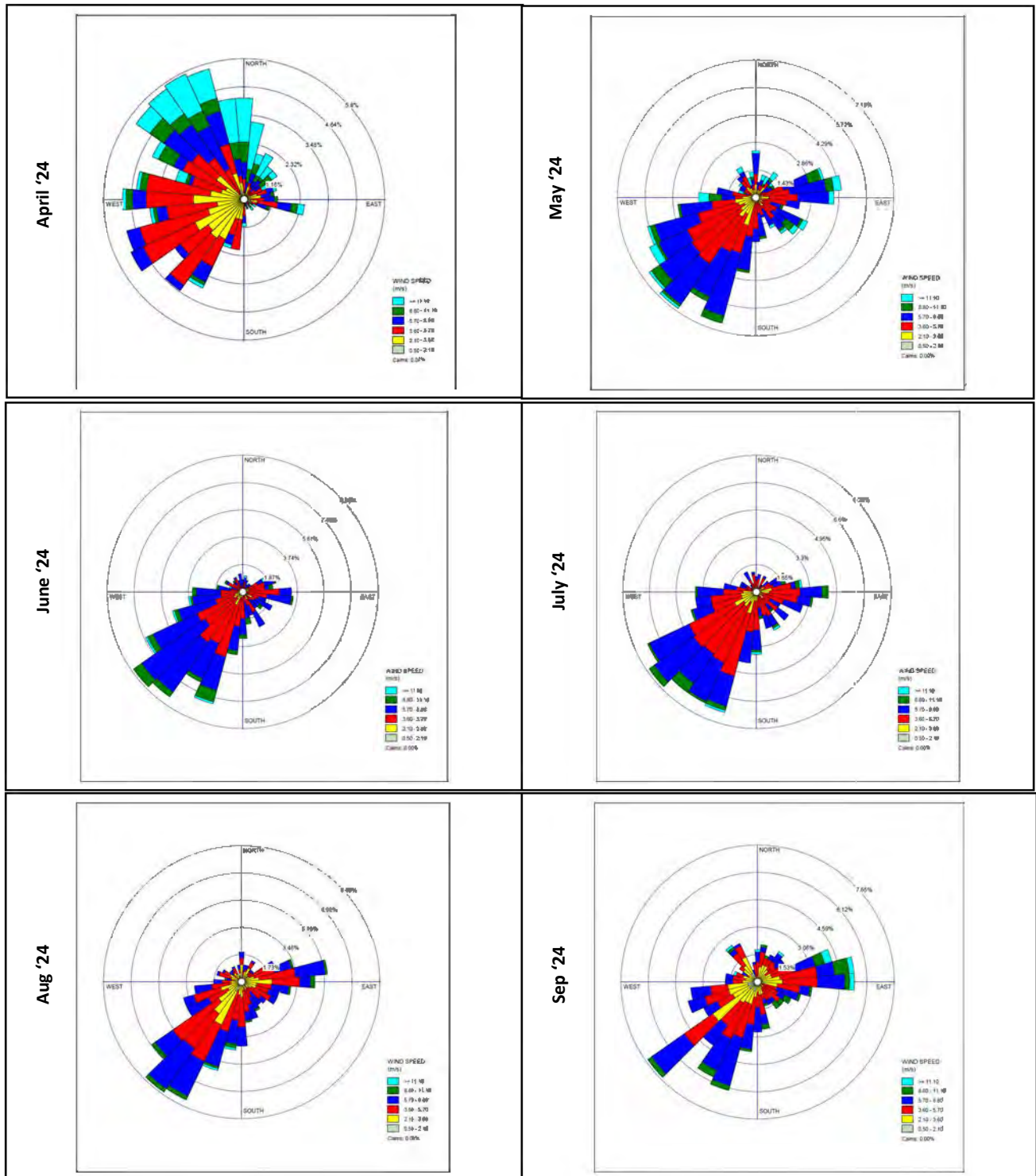
Weather monitoring would help in keeping track of different parameters like temperature, humidity, rainfall, wind direction, wind speed & barometric pressure. Real time meteorological data is used to support a number of programs including public aviation, agricultural activity, disaster management etc.

Weather monitoring station is installed at APJL, Godda and six months data has been compiled from the online platform of the weather monitoring station installed inside the power plant with the help of Environment Department and average data on monthly basis for ambient temperature, relative humidity, wind speed, barometric pressure, rainfall etc. are presented below.

Meteorological Data (April-2024 to September.-2024)

Month		Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sep'24
Wind Speed (m/s)	Max	19.2	18.2	33.8	12.3	13.4	16.5
	Avg.	2.9	2.2	2.3	2.0	1.9	1.9
Temp (°C)	Max	42.4	40.8	41.6	35.6	36.0	35.3
	Min	20.7	20.8	25.7	25.3	24.9	23.5
	Avg.	32.7	30.9	32.4	29.9	29.2	29.1
Humidity (%)	Max	71.7	100.0	100.0	100.0	100.0	94.2
	Min	13.2	10.1	28.6	53.4	52.7	54.5
	Avg.	31.7	59.3	65.6	76.3	79.7	80.2
B Pressure (mmHg)	Avg.	746.0	744.6	741.9	741.0	744.1	744.7
Rainfall (mm)	Month Total	0	125.6	48.2	259.1	174.8	466.6
	from 01.01.24	47.2	172.8	221	480.1	654.9	1121.5
	Monsoon'24	-	-	48.2	307.3	482.1	948.7

Fig 1: Wind Rose Diagram from April 2024 to September 2024



SECTION 7: AMBIENT AIR MONITORING REPORT**7.1 Concept & Scope**

The Ambient Air monitoring encompasses the results and statistical evaluation of the at three data monitored different locations.

Different parameters like PM₁₀, PM_{2.5}, Oxides of Sulphur, Oxides of Nitrogen and Mercury are monitored for representing the ambient air quality within the study area.

7.2 Frequency of Sampling

The frequency of the sampling for AAQM was as follows:

PARAMETERS	FREQUENCY OF EACH LOCATIONS
PM ₁₀ , PM _{2.5} , Oxides of Sulphur, Oxides of Nitrogen	Twice in a week
12 parameters as per NAAQM	Quarterly
Mercury	Once in a month

7.3 SAMPLING DURATION AS PER NAAQMS 2009

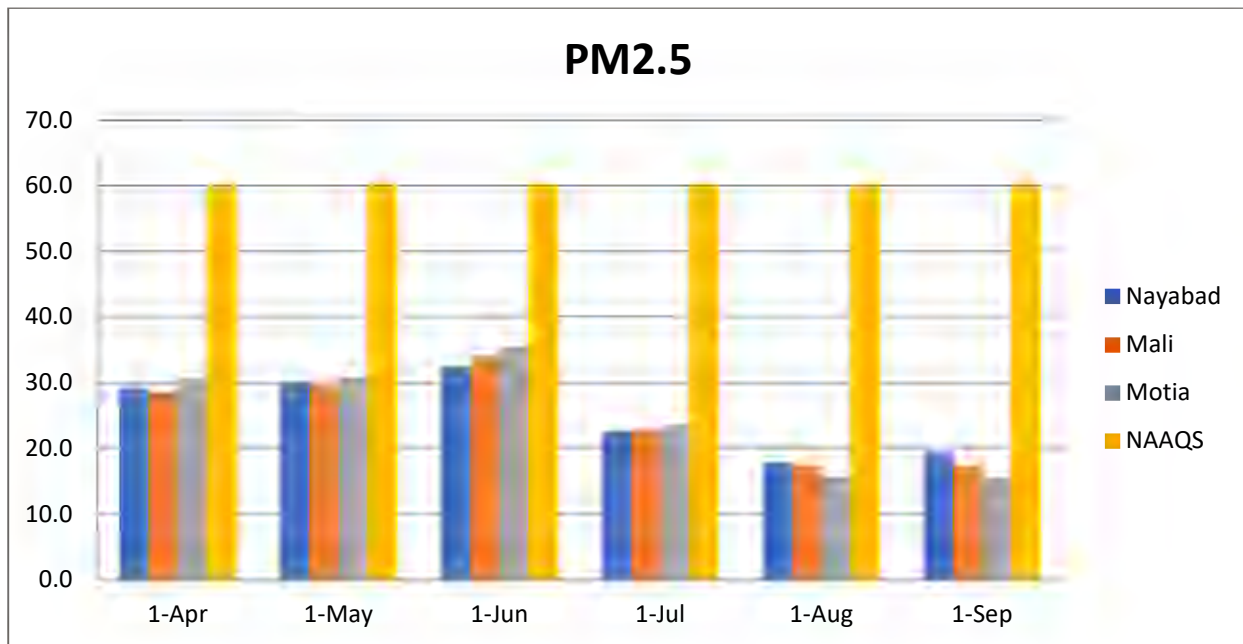
S. No.	Parameters	Sampling Duration (Hr.)
1.	Particulate Matter (PM ₁₀)	24
2.	Particulate Matter (PM _{2.5})	24
3.	Oxides of Sulphur (SO _x)	24
4.	Oxides of Nitrogen (NO _x)	24
5.	Mercury	24

7.4 AAQM METHODOLOGY

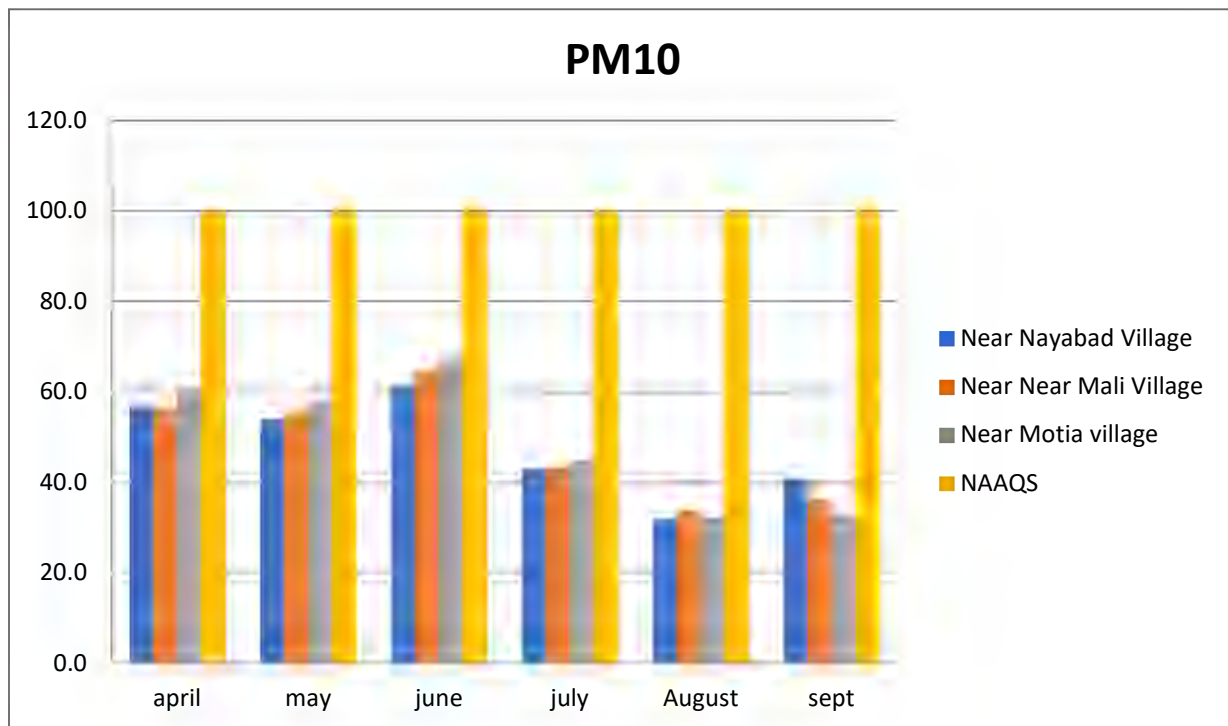
PARAMETERS	METHODOLOGY/PRINCIPLE
Particulate Matter (PM₁₀)	Air is drawn through a size-selective inlet and through a 20.3 X 25.4 cm (8 X 10 in) filter at a flow rate, which is typically 1132 L/min. Particles with aerodynamic diameter less than the cut-point of the inlet are collected, by the filter. The mass of these particles is determined by the difference in filter weights prior to and after sampling. The Concentration of PM ₁₀ in the designated size range is calculated by dividing the weight gain of the filter by the volume of air sampled.
Particulate Matter (PM_{2.5})	An electrically powered air sampler draws ambient air at a constant volumetric flow rate (16.7 lpm) maintained by a mass flow volumetric flow

	<p>controller coupled to a microprocessor into specially designed inertial particle-size separator (i.e., cyclones or impactors) where the suspended particulate matter in the PM_{2.5} size ranges is separated for collection on a 47 mm polytetrafluoroethylene (PTFE) filter over a specified sampling period. Each filter is weighed before and after sample collection to determine the net gain due to the particulate matter. The mass concentration in the ambient air is Computed as the total mass of collected particles in the PM_{2.5} size ranges divided by the actual volume of air sampled, and is expressed in ug/m³. The microprocessor reads averages and stores five-minute averages of ambient temperature, ambient pressure, filter temperature and volumetric flow rate.</p>
Sulphur Dioxide (SO₂)	<p>Sulphur dioxide from air is absorbed in a solution of potassium tetrachloromercurate (TCM). The impingers setup for the absorbance of Sulphur Dioxide from air is shown in Figure 15. A dichlorosulphitomercurate complex, which resists oxidation by the Oxygen in the air, is formed. Once formed, this complex is stable to strong Oxidants such as ozone and oxides of nitrogen and therefore, the absorber solution may be stored for some time prior to analysis. The complex is made to react with para-rosaniline and formaldehyde to form the intensely colored pararosaniline methyl sulphonic acid. The absorbance of the solution is measured by means of a suitable spectrophotometer.</p>
Nitrogen Dioxide (NO₂)	<p>Ambient nitrogen dioxide (NO₂) is collected by bubbling air through a solution of sodium hydroxide and sodium Arsenite. The concentration of nitrite ion (NO₂⁻) produced during sampling is determined calorimetrically by reacting the nitrite ion with phosphoric acid, sulfanilamide, and N-(1-naphthyl)-ethylenediamine dihydrochloride (NEDA) and measuring the absorbance of the highly colored azo dye at 540 nm.</p>

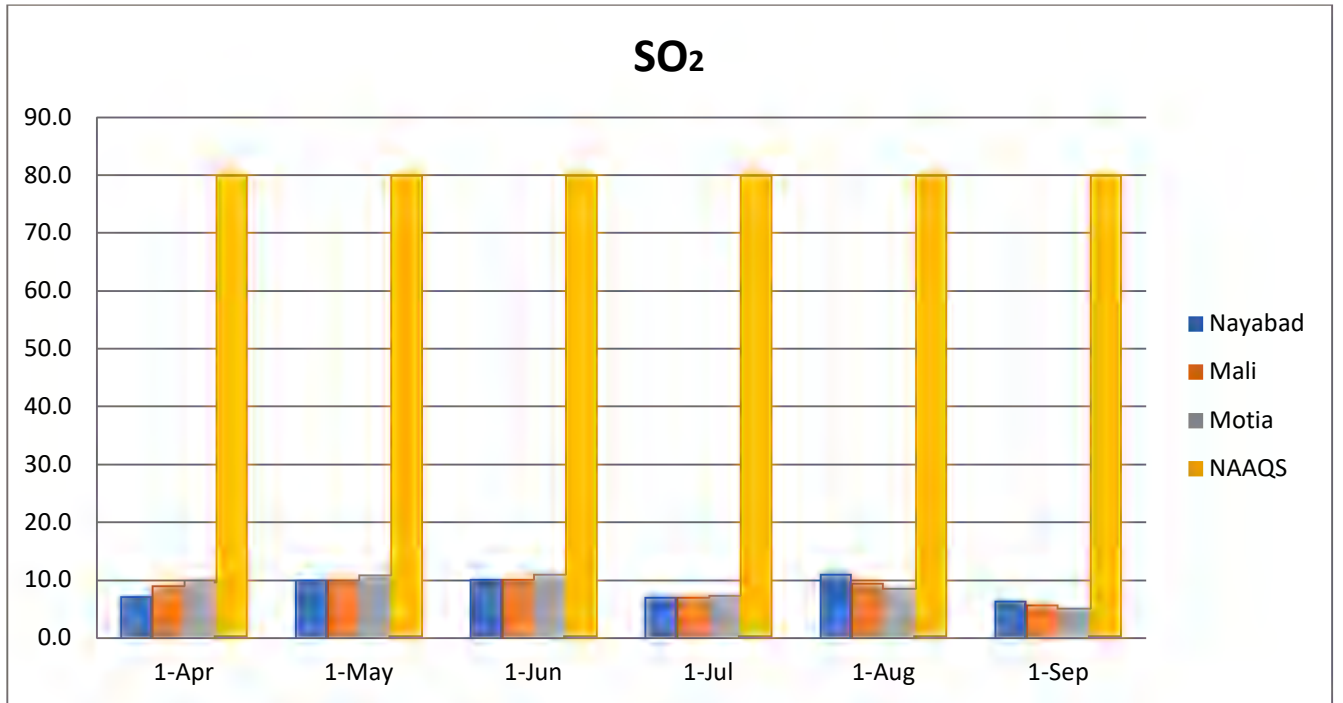
7.5 Graphical Representation



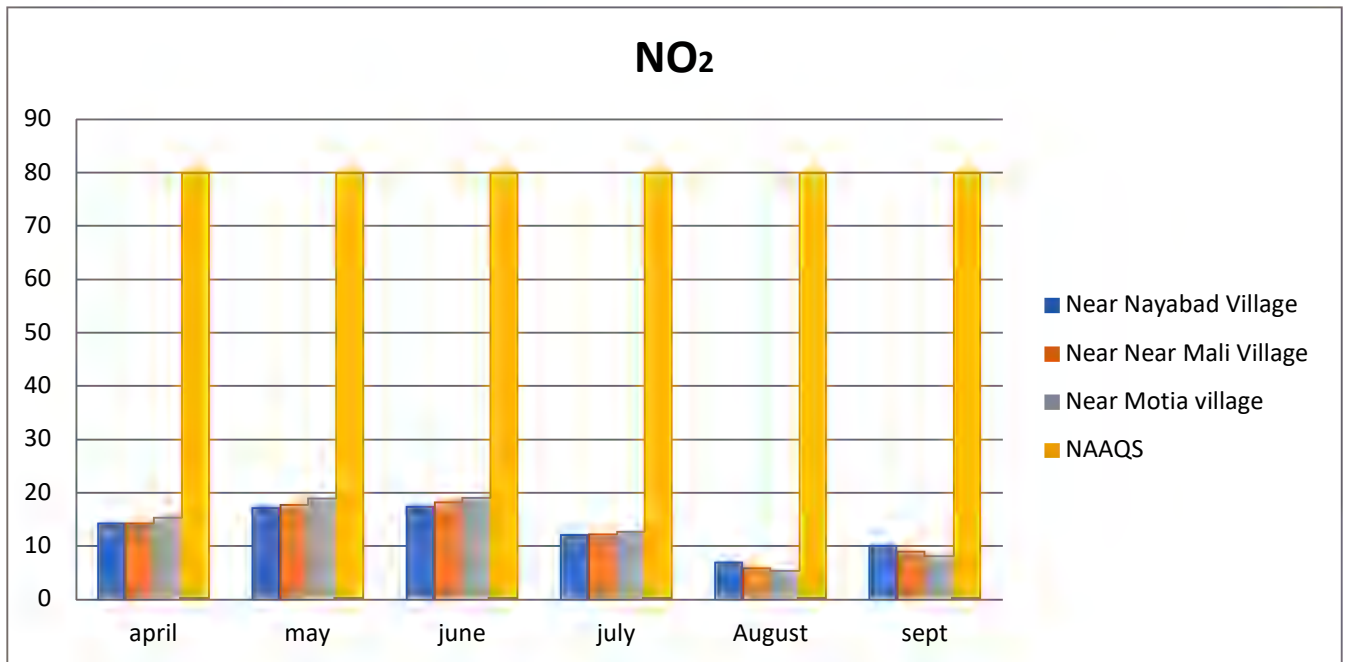
Graph 1: Particulate Matter (PM_{2.5})



Graph 2: Particulate Matter (PM₁₀)



Graph 3: Sulphur Dioxide (SO₂)



Graph 4: Nitrogen Dioxide (NO₂)

7.6 Summary

From all the above graphical representation it is clearly interpreted that all the values of PM₁₀, PM_{2.5}, SO₂ and NO_x were lower than the prescribed limits for all the stated locations.

SECTION 8: WATER ANALYSIS

Ground water Sample was collected for Four Location & One Surface water Sample Location.

Analysis results of ground water reveal the following:

- pH- 7.07 to 7.35
- TDS- 387 to 558 mg/l
- Fluoride (F) - 0.21 to 0.35 mg/l
- Total Hardness as CaCO₃ – 168 to 295 mg/l
- Chlorides- 26.32 to 64.61 mg/l
- Nitrates – 17.2 to 24.6 mg/l
- Iron – 0.20 to 0.29 mg/l

Analysis results of water level reveal the following:

Water level- 2.5 to 4.54 mtr.

Analysis results of Surface Water reveal the following:

- pH 7.12 to 7.29
- Total Hardness 110 to 125 mg/L.
- Total Dissolved Solids 310 to 333 mg/L.
- Chlorides 29.45 to 35.61 mg/L
- Fluoride 0.31 to 0.36 mg /L
- Nitrate 6.10 to 6.12 mg L
- Iron 0.19 to 0.23 mg/L

📊 Ground & surface water sample were found to be slightly Neutral to basic in nature at all location.

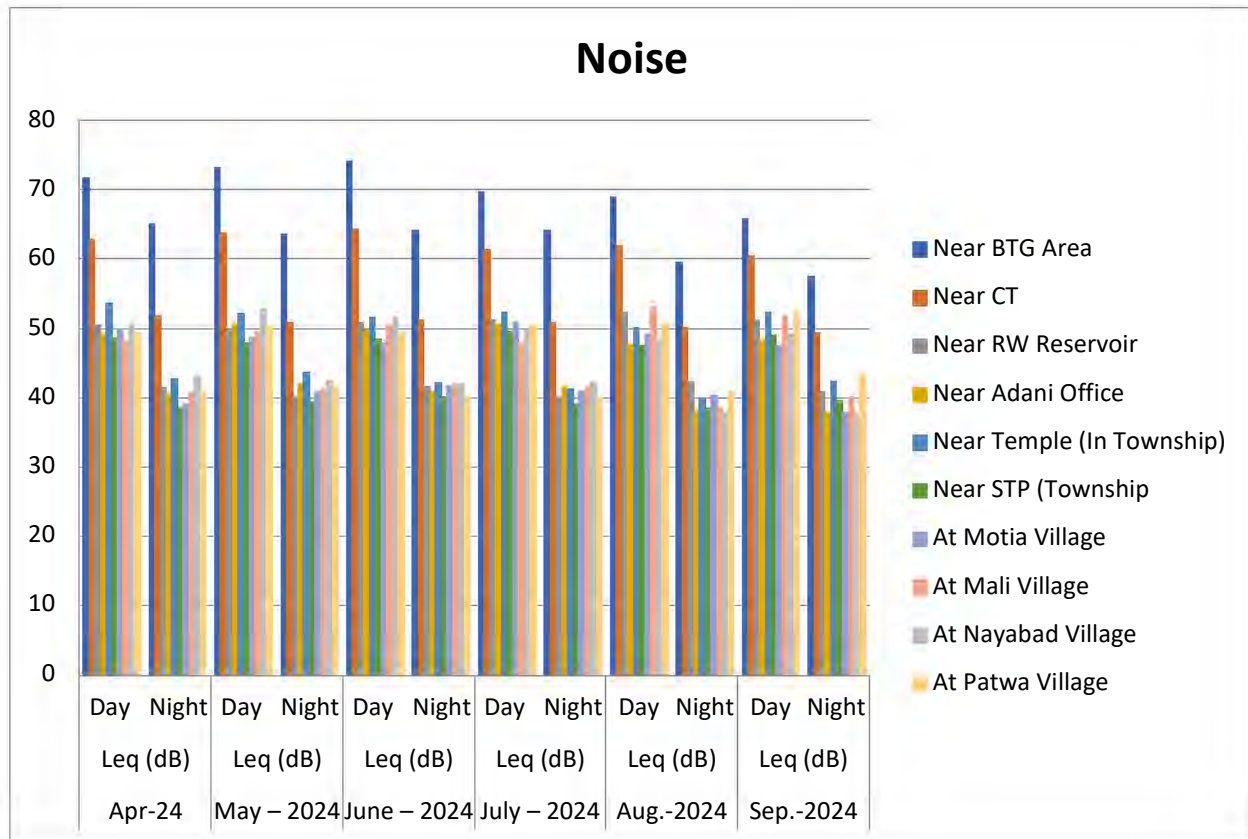
📊 In study area, water quality has been observed to vary considerably between the sampling locations. Mostly the parameters fall within the permissible limits of drinking water standards (IS 10500:2012).

SECTION 9: NOISE MONITORING ANALYSIS**Summary Report from April-2024 to September-2024**

S.NO.	Location	Apr- 2024 Leq (dB)		May – 2024 Leq (dB)		June – 2024 Leq (dB)		July – 2024 Leq (dB)		Aug.-2024 Leq (dB)		Sep.-2024 Leq (dB)	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1.	Near BTG Area	71.6	65.1	73.2	63.5	74.1	64.1	71.6	65.1	73.2	63.5	74.1	64.1
2.	Near CT	62.9	51.7	63.8	50.8	64.3	51.3	62.9	51.7	63.8	50.8	64.3	51.3
3.	Near RW Reservoir	50.4	41.4	49.7	40.2	50.9	41.6	50.4	41.4	49.7	40.2	50.9	41.6
4.	Near Adani Office	49.1	40.5	50.6	41.9	49.7	40.8	49.1	40.5	50.6	41.9	49.7	40.8
5.	Near Temple (In Township)	53.7	42.8	52.1	43.7	51.6	42.1	53.7	42.8	52.1	43.7	51.6	42.1
6.	Near STP (Township)	48.6	38.5	47.9	39.4	48.4	40.1	48.6	38.5	47.9	39.4	48.4	40.1
7.	At Motia Village	49.9	39.1	48.6	40.9	47.9	41.7	49.9	39.1	48.6	40.9	47.9	41.7
8.	At Mali Village	48.1	40.6	49.5	41.2	50.4	42.0	48.1	40.6	49.5	41.2	50.4	42.0
9.	At Nayabad Village	50.6	43.1	52.9	42.5	51.6	41.9	50.6	43.1	52.9	42.5	51.6	41.9
10.	At Patwa Village	49.3	40.9	50.3	41.7	49.2	40.1	49.3	40.9	50.3	41.7	49.2	40.1

Interpretation

- The (Leq) noise levels at all sites are found to be 47.9 to 74.1 Leq. (dB) A for day and 38.5 to 65.1 Leq. (dB) A night time respectively. The values are found to be fairly low w.r.t. Industrial.
- The noise levels at all location are well below the NAAQS standards w.r.t noise.



Graph 5: Ambient Noise Monitoring data

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
 2. Night Time is reckoned between 10.00 PM to 6.00 AM.
 3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
 Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

Fig 2: Ambient Noise Standards

Project Name: Adani Power (Jharkhand) Ltd.

2 X 800 MW Godda Thermal Power Project Located at village: Motia, District-Godda, Jharkhand

Environmental Monitoring Report (April 2024 to September 2024)

SECTION 10: WASTE WATER ANALYSIS

Summary Report from April-2024 to September.-2024

S.No	Parameter	Apr. 2024						May. 2024			June. 2024		
		STP Outlet (Township)	STP Outlet (Plant)	STP Inlet (Township)	STP Inlet (Plant)	ETP Outlet	ETP Inlet	STP Outlet (Township)	STP Outlet (Plant)	ETP Outlet	STP Outlet (Township)	STP Outlet (Plant)	ETP Outlet
1.	pH	7.62	7.40	7.40	7.29	7.56	7.42	7.35	7.26	7.59	7.31	7.23	7.63
2.	TDS mg/l	890.0	930.0	890.0	756.0	962.0	842.0	930.0	820.0	870.0	910.0	860.0	940.0
3.	TSS mg/l	16.3	42.1	32.1	19.6	68.9	65.1	35.6	20.9	13.9	33.6	21.4	14.6
4.	O&G mg/l	*BLQ (**LO Q 4.0)	5.6	5.8	4.1	8.6	6.9	5.6	4.3	*BLQ (**LOQ -4.0)	5.1	4.8	*BLQ (**LOQ-4.0)
5.	BOD mg/l	9.50	25.6	22.5	18.5	45.2	53.6	21.0	20.0	10.0	19.4	16.8	12.4
6.	COD mg/l	110.0	70.0	310.0	410.0	60.0	210.0	99.89	75.6	65.2	89.48	69.4	60.45

S.NO.	Parameter	July. 2024						Aug. 2024			Sep. 2024		
		ETP Outlet	ETP Inlet	STP Outlet (Township)	STP Outlet (Plant)	STP Inlet (Township)	STP Inlet (Plant)	ETP Outlet	STP Outlet (Township)	STP Outlet (Plant)	ETP Outlet	STP Outlet (Township)	STP Outlet (Plant)
1.	pH	7.52	7.89	7.23	7.20	7.59	7.40	7.10	7.26	6.92	7.15	7.19	6.83
2.	TDS mg/l	840.0	896.0	710.0	706.0	902.0	810.0	878.0	864.0	819.0	845.0	814.0	780.0
3.	TSS mg/l	14.9	46.7	27.4	17.4	72.7	69.0	11.8	29.7	19.26	10.2	26.7	17.5
4.	O&G mg/l	*BLQ (**LO Q-4.0)	5.3	5.3	4.2	8.1	6.3	*BLQ (**LO Q-4.0)	4.9	3.7	*BLQ (**LO Q-4.0)	4.1	3.3
5.	BOD mg/l	8.00	27.5	18.5	15.5	49.3	59.1	10.2	17.5	14.8	8.6	15.7	12.4
6.	COD mg/l	49.56	240.0	96.1	75.9	341.0	440.0	52.0	72.0	58.4	48.0	68.0	52.1

Interpretation

After treatment of wastewater, all the parameters of Outlets are well within limit.

Project Name: Adani Power (Jharkhand) Ltd.

2 X 800 MW Godda Thermal Power Project Located at village: Motia, District-Godda, Jharkhand

Environmental Monitoring Report (April 2024 to September 2024)


SECTION 11: STACK MONITORING ANALYSIS

Summary Report from April.-2024 to September.-2024

S.NO.	Month	Unit –I mg/Nm3				Unit –II mg/Nm3			
		PM	NO2	SO2	Hg	PM	NO2	SO2	Hg
1.	Apr. 2024	13.26	69.15	46.03	BLQ	13.23	73.54	82.71	BLQ
2.	May. 2024	24.0	76.0	85.0	BLQ	16.10	58.21	76.95	BLQ
3.	June. 2024	16.26	81.90	93.48	BLQ	11.65	52.89	42.87	BLQ
4.	July. 2024	12.23	78.0	42.74	BLQ	16.95	58.46	69.78	BLQ
5.	Aug. 2024	15.40	78.70	72.46	BLQ	14.82	76.72	79.90	BLQ
6.	Sep. 2024	15.50	78.80	84.20	BLQ	14.01	70.12	74.46	BLQ

S.NO.	Month	DG Set Plant gm/kw-hr					DG Set Township gm/kw-hr				
		PM	NOX	SO2	HC	CO	PM	NOX	SO2	HC	CO
1.	June. 2024	0.009	0.15	0.40	0.11	0.26	0.011	0.18	0.49	0.11	0.35

From all the above stack monitoring results, it is clearly interpreted that all the values of PM, SO₂, NO₂, Hg, HC, CO were lower than the prescribed limits for all the stated locations.



Annexure - 1
MoEF&CC and NABL
Certificates



F.No. LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./ 10/3

Provisional Certificate

To,

Head of Laboratory,
M/s Vibrant Techno Lab Private Limited,
Plot No. SC 40, 3rd Floor, Narayan Vihar S,
Ajmer Road, Jaipur- 302020, Rajasthan.

Subject: Recognition of M/s Vibrant Techno Lab Private Limited, Plot No. SC 40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur- 302020, Rajasthan, as Environmental laboratory under the Environmental (Protection) Act- 1986.

Sir,

I am directed to refer the online application, dated 24/01/2023 for the recognition of your laboratory under Environmental (Protection) Act, 1986. Based on the recommendations of the concerned Division, approval of Competent Authority for recognition of Environmental laboratories and your acceptance of the revised terms and conditions at Annexure-III & IV of the guidelines for recognition of environmental laboratories, CPCB approves the recognition **M/s Vibrant Techno Lab Private Limited, Plot No. SC 40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur- 302020, Rajasthan** and shall be notified in the Gazette of India. Considering the current requirement of mandatory accreditation/ certifications of the laboratory, **this recognition shall be valid up to 19/12/2024.**

2. As sought in the aforementioned application, **M/s Vibrant Techno Lab Private Limited, Plot No. SC 40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur- 302020, Rajasthan** may undertake the following tests:

- i. **Physical Tests**-Conductivity, Colour, pH, Fixed & Volatile Solids, Total Solids, Total Dissolved Solids, Total Suspended Solids, Turbidity, Temperature, Velocity & Discharge Measurement of Industrial Effluent Stream, Flocculation Test (Jar test), Settleable Solids and Sludge Volume Index.
- ii. **Inorganic (General and Non-metallic)**: Acidity, Alkalinity, Ammonical Nitrogen, Chloride, Chlorine Residual, Dissolved Oxygen, Fluoride, Total Hardness, Total Kjeldahl Nitrogen (TKN), Nitrite Nitrogen, Nitrate Nitrogen, Phosphate, Sulphate, Carbon Dioxide, Iodine, Sulphite, Silica and Sulphide.
- iii. **Inorganic (Trace Metals)**: Boron, Cadmium, Calcium, Total Chromium, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio, Zinc, Arsenic, Aluminium, Manganese and Selenium.
- iv. **Organics (General) and Trace Organics**: Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenolic Compounds, Pesticides (each) (Organo-Chlorine and Organo Nitrogen-Phosphorus), Surfactant, Poly-Nuclear Aromatic Hydrocarbon (PAH) each, Organic Carbon in solid) and Carbon/Nitrogen Ratio.
- v. **Microbiological Test**: Total Coliform, Faecal Coliform, *E. coli*, *Faecal Streptococci* and Total Plate Count.
- vi. **Toxicological Tests**: Bioassay Method for Evaluation of Toxicity Using Fish and Measurement of Toxicity Factor Using Zebra Fish (Dimensionless Toxicity Test).
- vii. **Biological Tests**: Benthic Organism Identification and Count, Chlorophyll and Primary Productivity
- viii. **Characterization of Hazardous Waste**: Preparation of Leachate (TCLP Extract/Water Extract), Toxicity and Measurement of Heavy Metals/Pesticides in the Waste/Leachate.
- ix. **Soil/Sludge/Sediment and Solid Waste**: Boron, Cation Exchange Capacity (CEC), Electrical Conductivity, Nitrogen (Available), Organic Carbon/Matter (Chemical Method), pH, Phosphorous (Available), Phosphate (Ortho), Phosphate (Total), Potassium, SAR in Soil

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

Contd.

Extract, Sodium, Soil moisture, IKN, Calorific Value, Ammonia, Bicarbonate, Calcium, Calcium Carbonate, Chloride, Exchangeable Sodium Percentage (ESP), Heavy Metals, Magnesium, Nitrate, Nitrite, PAH, Potash (available), Total Water Soluble Salt and Water Holding Capacity


- x. **Ambient Air/ Fugitive Emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, Carbon monoxide, Chlorine, Fluoride, Non-Methane Hydrocarbon, Lead, Methane, Ozone, Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrene & others and PM_{2.5}.
- xi. **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Chlorine, Fluoride (Gaseous), Total Hydrocarbon, Carbon Disulphide and Hydrogen Sulphide.
- xii. **Noise Level:** Noise Level Measurement (20-140 dBA) and Ambient Noise and Source Specific Noise.
- xiii. **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity and Rainfall.

3. Further, the following analysts have been approved as Government Analysts.

- i. Sh. Raj Kumar Yadav
- ii. Sh. Nemichand
- iii. Sh. Umesh Kumar Sharma

4. The laboratory shall compulsorily participate in the Analytical Quality Exercise conducted by the Central Pollution Control Board (CPCB) to ascertain the capability of the laboratory and analysis carried out and shall submit quarterly progress report to CPCB.
5. The surprise inspection/periodic surveillance of the recognized environment laboratory will be undertaken by CPCB to assess its proper functioning systematic operation and reliability of data generated at the laboratory.
6. It is also mandatory for the laboratory to have requisite accreditations of the ISO: 17025 and ISO:45001 and its renewal as per accreditation rules. This recognition is subject to such accreditations and renewals as applicable. The laboratory is required to apply online for further renewal of recognition through CPCB web portal after renewal of the mandatory accreditations / certifications concerned.
7. The laboratory should compulsorily follow the accepted terms and conditions. In case of serious non-compliance of any of the terms and conditions, the laboratory may be black listed for a minimum period of two years and civil/criminal proceedings, as applicable, may be initiated for performing functions on behalf of the Government in an unauthorized manner.

Yours faithfully,


(Dr. K. Ranganathan)
Scientist-E & Divisional Head
Instrumentation laboratory

डॉ. के. रंगनाथन / Dr. K. Ranganathan
वैज्ञानिक 'ई' / Scientist 'E'
प्रकाश एवं उपकरणिक प्रयोगशाला
Div. Head-Water & Instrumentation Laboratory
केन्द्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
पर्यावरण, वन एवं जलवायु परिवर्तन विभाग, भारत सरकार
(Min. Environment, Forest & Climate Change, Govt. of India)
परिवेश भवन, पूर्व अर्जुन नगर, दिल्ली-110032
Parvash Bhawan, East Arjun Nagar, Delhi-110032



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

VIBRANT TECHNO LAB PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

PLOT NO. SC 40, 3RD FLOOR, NARAYAN VIHAR S, AJMER ROAD, JAIPUR, RAJASTHAN, INDIA

in the field of

TESTING

Certificate Number: TC-11227

Issue Date: 20/12/2022

Valid Until: 19/12/2024

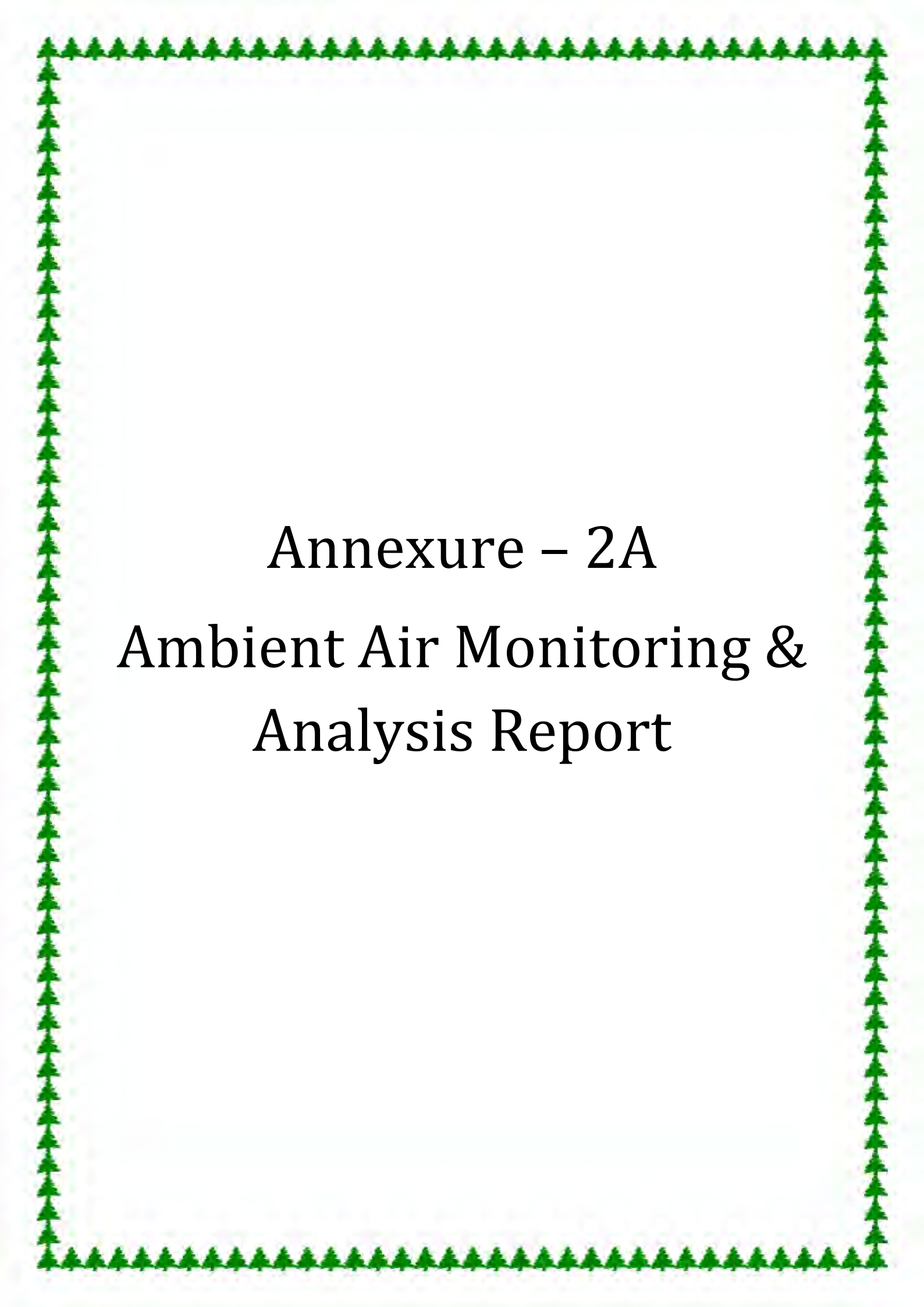
This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : VIBRANT TECHNO LAB PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



Annexure - 2A
Ambient Air Monitoring &
Analysis Report



TEST REPORT

VIBRANT

Name & Address of the Party

M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant,
Village: Motia, Dist: Godda, Jharkhand
IS-5182 & CPCB Guidelines

Format No.: 7.8 F 02
Party Reference No.: NIL

Analysis Protocol:

Period of Analysis: Apr. 2024 To Sep. 2024

Parameter Required:

As per work order

Sample Description:

Ambient Air Quality Monitoring

Month	PM2.5 µg/m3	PM10 µg/m3	NO2 µg/m3	SO2 µg/m3
	IS 5182 (P-24):201	IS: 5182 (P-23), 2006	IS: 5182(P-6),2006	IS: 5182(P-2),2001
Near Nayabad Village (Close to Plant Boundary)				
01-02/04/2024	26.3	51.4	13.1	6.8
04-05/04/2024	28.9	55.9	14.3	7.4
08-09/04/2024	27.5	53.4	13.8	6.2
11-12/04/2024	30.4	58.8	15.2	8.6
15-16/04/2024	29.4	57.3	14.7	7.1
18-19/04/2024	32.8	63.2	15.9	6.9
22-23/04/2024	31.1	60.4	15.4	7.2
25-26/04/2024	26.9	52.6	12.4	6.8
29-30/04/2024	29.1	59.4	14.9	7.4
02-03/05/2024	27.8	52.9	15.0	8.7
06-07/05/2024	31.2	59.2	16.8	9.7
09-10/05/2024	23.1	41.6	16.5	9.5
13-14/05/2024	28.8	39.7	17.5	10.1
16-17/05/2024	27.6	40.8	18.7	10.8
20-21/05/2024	33.2	63.0	17.9	11.4
23-24/05/2024	34.8	66.2	18.8	10.9
27-28/05/2024	32.3	61.4	17.5	9.8
30-31/05/2024	31.6	60.1	17.1	9.9
03-04/06/2024	28.1	53.3	15.2	8.8
06-07/06/2024	31.4	59.6	17.0	9.8
10-11/06/2024	30.7	58.4	16.6	9.6
13-14/06/2024	32.5	61.8	17.6	10.2
17-18/06/2024	34.7	66.0	18.8	10.9
20-21/06/2024	33.4	63.4	18.0	11.5
24-25/06/2024	35.1	66.6	18.9	11.0
27-28/06/2024	32.5	61.8	17.6	9.9
01-02/07/2024	15.1	28.7	8.2	4.7
04-05/07/2024	16.8	32.0	9.1	5.3
08-09/07/2024	29.1	55.3	15.7	9.1
11-12/07/2024	16.9	32.2	9.1	5.3
15-16/07/2024	33.1	62.9	17.9	10.3
18-19/07/2024	30.7	58.3	16.6	9.6
22-23/07/2024	17.3	33.0	9.4	5.4
25-26/07/2024	15.9	30.2	8.6	5.0
29-30/07/2024	27.9	53.1	15.1	8.7
01-02/08/2024	18.6	32.8	7.8	12.3
05-06/08/2024	16.3	31.1	6.8	9.7
08-09/08/2024	16.8	35.3	7.0	11.1
12-13/08/2024	18.5	31.0	7.5	13.3

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Term & conditions P.T.O.

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
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0141-2954638

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www.vibranttechnolab.com



VIBRANT

"Experience the unimaginable"

TEST REPORT

15-16/08/2024	17.6	29.7	6.6	10.4
19-20/08/2024	18.4	31.7	6.1	9.7
22-23/08/2024	19.1	30.2	6.7	10.5
27-28/08/2024	16.4	32.5	7.4	11.7
02-03/09/2024	21.8	45.8	11.5	7.3
05-06/09/2024	18.8	39.5	9.0	6.3
09-10/09/2024	19.4	40.7	10.2	6.5
12-13/09/2024	21.0	44.1	12.3	7.0
16-17/09/2024	18.0	37.9	9.5	6.0
19-20/09/2024	16.8	35.3	8.8	5.6
23-24/09/2024	18.3	38.5	9.6	6.1
26-27/09/2024	20.6	43.3	10.8	6.9
Min.	15.1	28.7	6.1	4.7
Max.	35.1	66.6	18.9	13.3
Avg.	25.30	48.10	13.19	8.64

Month	PM2.5 µg/m3	PM10 µg/m3	NO2 µg/m3	SO2 µg/m3
	IS 5182 (P-24):2017	IS: 5182 (P-23), 2006	IS: 5182(P-6),2006	IS: 5182(P-2),2001
Near Near Mali Village (Close to plant boundary)				
01-02/04/2024	31.9	63.1	16.1	10.1
04-05/04/2024	27.9	55.2	14.1	8.9
08-09/04/2024	28.4	56.3	14.4	9.0
11-12/04/2024	25.6	50.7	12.9	8.1
15-16/04/2024	33.5	65.9	16.8	10.9
18-19/04/2024	27.0	53.4	13.6	8.6
22-23/04/2024	30.8	61.0	15.6	9.8
25-26/04/2024	26.1	51.7	13.2	8.3
29-30/04/2024	24.7	48.9	12.5	7.8
02-03/05/2024	29.0	55.1	15.7	9.1
06-07/05/2024	32.3	61.4	17.5	10.1
09-10/05/2024	23.3	42.3	17.1	9.9
13-14/05/2024	22.5	40.6	18.1	10.5
16-17/05/2024	20.7	39.2	19.3	9.1
20-21/05/2024	34.3	65.2	18.5	10.7
23-24/05/2024	36.0	68.4	19.5	9.5
27-28/05/2024	33.5	63.6	18.1	10.5
30-31/05/2024	32.8	62.3	17.7	10.2
03-04/06/2024	29.7	56.4	16.0	9.3
06-07/06/2024	33.0	62.7	17.8	10.3
10-11/06/2024	32.4	61.5	17.5	10.1
13-14/06/2024	34.2	64.9	18.5	10.7
17-18/06/2024	36.4	69.1	19.7	9.3
20-21/06/2024	35.0	66.5	18.9	10.9
24-25/06/2024	36.7	69.7	19.8	9.7
27-28/06/2024	34.2	64.9	18.5	10.7
01-02/07/2024	15.6	29.7	8.4	4.9
04-05/07/2024	17.4	33.0	9.4	5.4
08-09/07/2024	29.2	55.5	15.8	9.1

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
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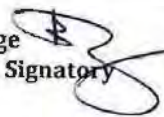
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11-12/07/2024	17.5	33.2	9.4	5.5
15-16/07/2024	33.2	63.1	18.0	10.4
18-19/07/2024	30.3	57.5	16.4	9.5
22-23/07/2024	17.9	34.0	9.7	5.6
25-26/07/2024	16.4	31.2	8.9	5.1
29-30/07/2024	27.7	52.7	15.0	8.7
01-02/08/2024	16.2	31.2	6.8	10.7
05-06/08/2024	17.4	36.5	5.8	8.3
08-09/08/2024	18.0	37.7	6.0	9.4
12-13/08/2024	19.6	30.4	6.5	11.5
15-16/08/2024	16.6	34.9	5.5	8.7
19-20/08/2024	15.4	32.3	5.1	8.1
22-23/08/2024	16.9	35.5	5.6	8.9
27-28/08/2024	19.2	32.0	6.4	10.1
02-03/09/2024	19.6	41.2	10.3	6.5
05-06/09/2024	16.6	34.9	7.9	5.5
09-10/09/2024	17.2	36.1	9.1	5.7
12-13/09/2024	18.8	39.5	11.1	6.3
16-17/09/2024	15.9	33.3	8.4	5.3
19-20/09/2024	14.6	30.7	7.7	4.9
23-24/09/2024	16.2	33.9	8.5	5.4
26-27/09/2024	18.4	38.7	9.7	6.1
Min.	14.6	29.7	5.1	4.9
Max.	36.7	69.7	19.8	11.5
Avg.	24.97	48.41	13.11	8.58

Month	PM2.5 µg/m3	PM10 µg/m3	NO2 µg/m3	SO2 µg/m3
	IS 5182 (P-24):2017	IS: 5182 (P-23), 2006	IS: 5182(P-6),2006	IS: 5182(P-2),2001
Near Motia village (Close to plant boundary)				
01-02/04/2024	34.2	69.4	17.3	10.8
04-05/04/2024	28.4	56.2	14.3	9.0
08-09/04/2024	27.9	55.2	14.1	8.9
11-12/04/2024	30.7	60.8	15.5	9.8
15-16/04/2024	30.2	59.7	15.2	9.6
18-19/04/2024	29.2	57.9	14.8	9.3
22-23/04/2024	33.9	68.4	16.9	10.7
25-26/04/2024	33.1	65.5	16.7	10.5
29-30/04/2024	27.0	53.4	13.6	8.6
02-03/05/2024	30.9	58.7	16.7	9.7
06-07/05/2024	34.2	65.0	18.5	10.7
09-10/05/2024	24.2	41.4	18.2	10.5
13-14/05/2024	22.5	44.3	19.1	11.1
16-17/05/2024	21.3	39.7	20.3	11.7
20-21/05/2024	36.2	68.8	19.6	11.3
23-24/05/2024	37.9	72.0	20.5	11.8
27-28/05/2024	35.4	67.2	19.1	11.1
30-31/05/2024	34.7	65.9	18.7	10.8
03-04/06/2024	31.2	59.3	16.9	9.8
06-07/06/2024	34.5	65.6	18.7	10.8

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10-11/06/2024	33.9	64.4	18.3	10.6
13-14/06/2024	35.7	67.8	19.3	11.2
17-18/06/2024	37.9	72.0	20.5	11.8
20-21/06/2024	36.5	69.4	19.7	11.4
24-25/06/2024	38.2	72.6	20.7	11.9
27-28/06/2024	35.7	67.8	19.3	11.2
01-02/07/2024	15.8	30.1	8.6	5.0
04-05/07/2024	17.6	33.4	9.5	5.5
08-09/07/2024	30.5	57.9	16.5	9.5
11-12/07/2024	17.7	33.6	9.6	5.5
15-16/07/2024	33.4	63.5	18.1	10.4
18-19/07/2024	30.5	57.9	16.5	9.5
22-23/07/2024	18.1	34.4	9.8	5.7
25-26/07/2024	16.6	31.6	9.0	5.2
29-30/07/2024	31.9	60.6	17.2	10.0
01-02/08/2024	13.0	32.3	6.3	9.9
05-06/08/2024	15.8	30.6	5.3	7.5
08-09/08/2024	16.4	34.4	5.5	8.6
12-13/08/2024	18.0	37.8	6.0	10.6
15-16/08/2024	15.0	31.6	5.0	7.9
19-20/08/2024	13.8	29.0	4.6	7.3
22-23/08/2024	15.3	30.2	5.1	8.1
27-28/08/2024	17.6	31.7	5.9	9.3
02-03/09/2024	17.9	37.6	9.4	6.0
05-06/09/2024	14.9	31.3	7.1	5.0
09-10/09/2024	15.5	32.5	8.1	5.2
12-13/09/2024	17.1	35.9	10.1	5.7
16-17/09/2024	14.1	29.7	7.4	4.7
19-20/09/2024	12.9	27.1	6.8	4.3
23-24/09/2024	14.4	30.3	7.6	4.8
26-27/09/2024	16.7	35.1	8.8	5.6
Min.	12.9	27.1	4.6	4.3
Max.	38.2	72.6	20.7	11.9
Avg.	25.41	49.58	13.46	8.85

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Annexure – 2B
Stack Monitoring and
Analysis Report



TEST REPORT

Name & Address of the Party

M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant,
Village: Motia, Dist: Godda, Jharkhand
IS-11255 & USEPA

Format No.: 7.8 F 03
Party Reference No.: NIL

Period of Analysis: Apr.2024 To Sep. 2024

Analysis Protocol:
Parameter Required:
Sample Description :

As per work order
Stack Emission Monitoring

Summary Reports

S.NO.	Month	Unit -I mg/Nm3				Unit -II mg/Nm3			
		PM	NO2	SO2	Hg	PM	NO2	SO2	Hg
1.	Apr. 2024	13.26	69.15	46.03	BLQ	13.23	73.54	82.71	BLQ
2.	May. 2024	24.0	76.0	85.0	BLQ	16.10	58.21	76.95	BLQ
3.	June. 2024	16.26	81.90	93.48	BLQ	11.65	52.89	42.87	BLQ
4.	July. 2024	12.23	78.0	42.74	BLQ	16.95	58.46	69.78	BLQ
5.	Aug. 2024	15.40	78.70	72.46	BLQ	14.82	76.72	79.90	BLQ
6.	Sep. 2024	15.50	78.80	84.20	BLQ	14.01	70.12	74.46	BLQ

S.NO.	Month	DG Set Plant gm/kw-hr					DG Set Township gm/kw-hr				
		PM	NOX	SO2	HC	CO	PM	NOX	SO2	HC	CO
1.	June. 2024	0.009	0.15	0.40	0.11	0.26	0.011	0.18	0.49	0.11	0.35

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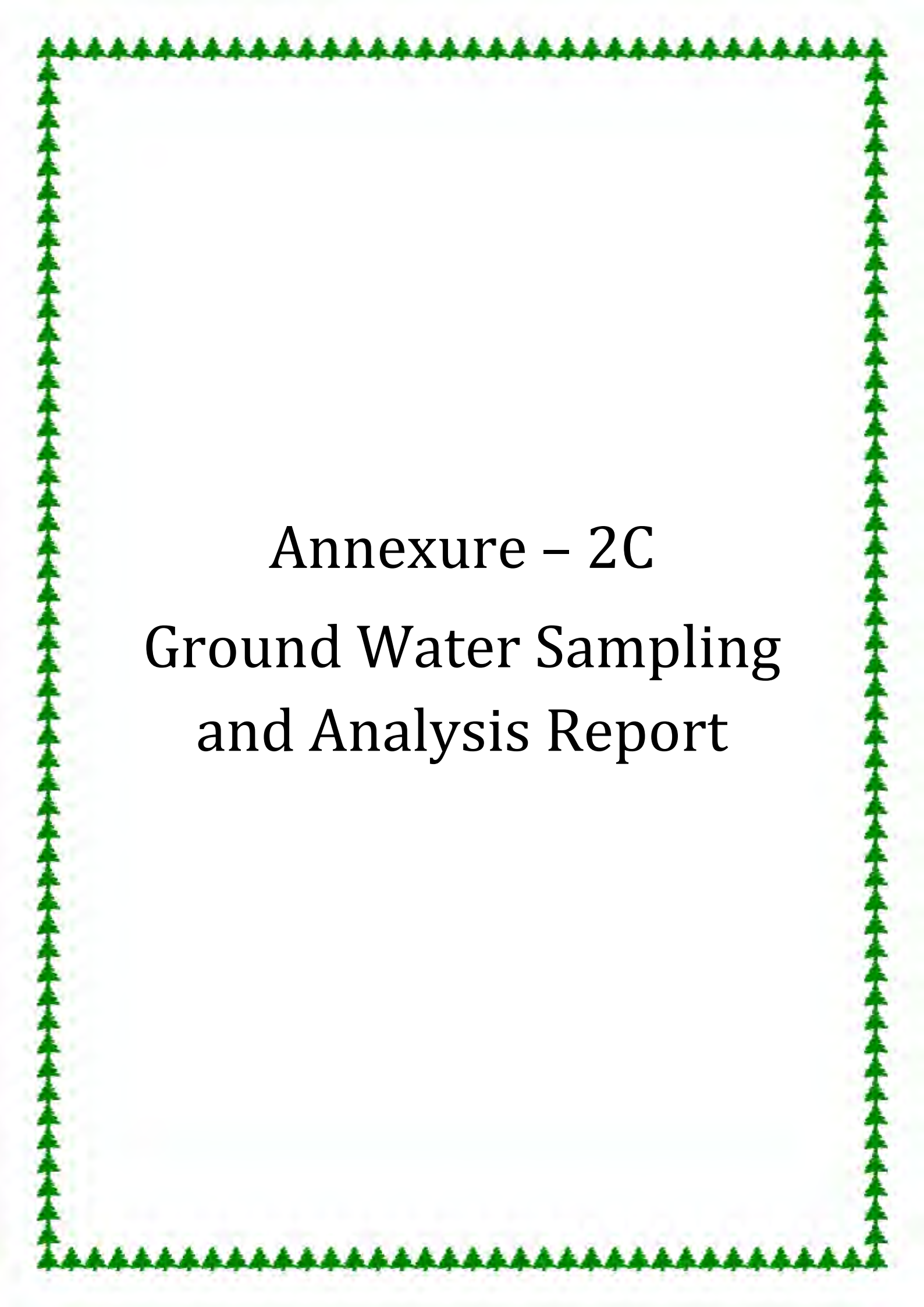
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Annexure – 2C
Ground Water Sampling
and Analysis Report



TEST REPORT

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Name & Address of Party:

M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant,
Village: Motia, Dist: Godda, Jharkhand

Format No.: 7.8 F 01
Party Reference No.: NA

Sample Description:: Ground Water
Sampling & Analysis Protocol: IS-10500-2012

Period of Analysis: Apr.2024 To Sep. 2024

Test Results

S. No.	Parameter	Test Method	Mali Village Apr. -24	Motiya Village Apr. -24	Naya Bad Village Apr. -24	Patwa Village. Apr. -24	Unit	IS: 10500-2012	
								Acceptable Limit	Permissible Limit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.24	7.19	7.26	7.07	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025(P-4): 2021	*BLQ(**LOQ-5.0)	*BLQ(**LOQ-5.0)	*BLQ(**LOQ-5.0)	*BLQ(**LOQ-5.0)	Hazen	5	15
3.	Turbidity	IS 3025 (P-10): 1984,RA: 2017	*BDL(**LOQ-1.0)	*BDL(**LOQ-1.0)	*BDL(**LOQ-1.0)	*BDL(**LOQ-1.0)	NTU	1	5
4.	Odour	IS 3025 (P-5)1983	Agreeable	Agreeable	Agreeable	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS 3025(P-8) 1984	Agreeable	Agreeable	Agreeable	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	210	295	190	190	mg/l	200	600
7.	Calcium as Ca	IS: 3025 (P-40): 1991, RA: 2019	52.10	94.19	54.11	46.09	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 1986,RA: 2019	275.5	356.25	270.75	261.25	mg/l	200	600
9.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	28.71	64.61	26.32	40.68	mg/l	250	1000
10.	Cyanide as CN	IS: 3025 (P-27)1986	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	IS: 3025 (P-46): 1994, RA: 2019	19.44	14.58	13.36	18.23	mg/l	30	100
12.	Total Dissolved Solids	IS 3025 (P-16): 1984RA: 2017	387	558	402	440	mg/l	500	2000
13.	Sulphate as SO ₄	IS: 3025 (P-24): 1986 Sec.1 RA: 2022	49.6	56.3	46.85	54.2	mg/l	200	400
14.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.31	0.35	0.23	0.29	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) RA: 2022	23.6	24.6	19.32	22.3	mg/l	45	No Relaxation
16.	Iron as Fe	APHA (23rd Edition),3113B: 2017	0.29	0.26	0.24	0.21	mg/l	0.3	No Relaxation

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17.	Aluminium as Al	IS 3025 (P-55):2003,RA: 2019	*BLQ(**LO Q-0.03)	*BLQ(**L OQ-0.03)	*BLQ(**LO Q-0.03)	*BLQ(**L OQ-0.03)	mg/l	0.03	0.2
18.	Boron	APHA (23 rd Edition) 4500B: 2017	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	mg/l	0.5	1.0
19.	Total Silica	IS: 3025 (P-35):1888,RA: 2003	2.40	2.67	2.44	2.52	mg/l	--	--
20.	Phenolic Compounds	APHA 23 rd Edition,2017, 5530 C	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	mg/l	0.001	0.002
21.	Anionic Detergents as MBAS	APHA 23 rd Edition,2017, 5530 C	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	mg/l	0.2	1.0
22.	Zinc as Zn	APHA (23 rd Edition), 3030D,3113B: 2017	0.34	0.36	0.32	0.29	mg/l	5.0	15.0
23.	Copper as Cu	APHA (23 rd Edition),3113B: 2017	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	mg/l	0.05	1.5
24.	Manganese as Mn	APHA (23 rd Edition)3030D,3113 B: 2017	*BLQ(**LO Q-0.05)	*BLQ(**L OQ-0.05)	*BLQ(**LO Q-0.05)	*BLQ(**L OQ-0.05)	mg/l	0.1	0.3
25.	Cadmium as Cd	APHA (23 rd Edition)3030D,3113 B: 2017	*BLQ(**LO Q-0.002)	*BLQ(**L OQ-0.002)	*BLQ(**LO Q-0.002)	*BLQ(**L OQ-0.002)	mg/l	0.003	No Relaxation
26.	Lead as Pb	APHA (23 rd Edition)3030D,3113 B: 2017	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	mg/l	0.01	No Relaxation
27.	Selenium as Se	APHA (23 rd Edition)3114C,2017	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	mg/l	0.01	No Relaxation
28.	Arsenic as As	APHA (23 rd Edition),3114C,2017	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	mg/l	0.01	0.05
29.	Mercury as Hg	APHA (23 rd Edition)3114C,2017	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	mg/l	0.001	No Relaxation
30.	Hexa Valent Chromium	APHA (23 rd Edition)3500 Cr B:2017	*BLQ(**LO Q-0.01)	*BLQ(**L OQ-0.01)	*BLQ(**LO Q-0.01)	*BLQ(**L OQ-0.01)	mg/l		
31.	Residual Free Chloren	IS:3025(P-26): 2021	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	mg/l		
32.	Temperature	IS :3025(P-9):1984,RA:2017	25.3	24.9	24.6	25.1	°C	--	--
33.	Total Coliform	IS:15185: 2016	Absent	Absent	Absent	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample	
34.	E.Coli	IS:15185: 2016	Absent	Absent	Absent	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample	

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification

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TEST REPORT

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Name & Address of Party:

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2 x 800 MW Thermal Power Plant,
Village: Motia, Dist: Godda, Jharkhand

Format No.: 7.8 F 01
Party Reference No.: NA

Period of Analysis: Apr.2024 To Sep. 2024

Sample Description:: Ground Water
Sampling & Analysis Protocol: IS-10500-2012

Test Results

S. No.	Parameter	Test Method	Mali Village July -24	Motiya Village July -24	Naya Bad Village July -24	Patwa Village. July -24	Unit	IS: 10500-2012	
								Acceptable Limit	Permissible Limit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.28	7.22	7.35	7.11	--	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025(P-4): 2021	*BLQ(**LOQ -5.0)	*BLQ(**LO Q-5.0)	*BLQ(**LOQ -5.0)	*BLQ(**LO Q-5.0)	Hazen	5	15
3.	Turbidity	IS 3025 (P-10): 1984,RA: 2017	*BDL(**LOQ -1.0)	*BDL(**LO Q-1.0)	*BDL(**LOQ -1.0)	*BDL(**LO Q-1.0)	NTU	1	5
4.	Odour	IS 3025 (P-5)1983	Agreeable	Agreeable	Agreeable	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS 3025(P-8) 1984	Agreeable	Agreeable	Agreeable	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	196	295	168	182	mg/l	200	600
7.	Calcium as Ca	IS: 3025 (P-40): 1991, RA: 2019	50.12	73.26	46.06	48.29	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 1986,RA: 2019	286.0	370.0	290.0	302.0	mg/l	200	600
9.	Chloride as Cl	IS: 3025(Part 32):1988, RA:2019	31.26	57.41	36.20	43.16	mg/l	250	1000
10.	Cyanide as CN	IS: 3025 (P-27)1986	*BLQ(**LO Q-0.02)	*BLQ(**LO Q-0.02)	*BLQ(**LO Q-0.02)	*BLQ(**LO Q-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	IS: 3025 (P-46): 1994, RA: 2019	17.24	27.26	13.90	14.95	mg/l	30	100
12.	Total Dissolved Solids	IS 3025 (P-16): 1984RA: 2017	402.0	541.0	421.0	460.0	mg/l	500	2000
13.	Sulphate as SO ₄	IS: 3025 (P-24): 1986 Sec.1 RA: 2022	21.85	41.23	40.85	41.26	mg/l	200	400
14.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.30	0.32	0.21	0.24	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) RA: 2022	21.3	23.4	17.2	20.8	mg/l	45	No Relaxation
16.	Iron as Fe	APHA (23 rd Edition),3113B:	0.26	0.23	0.21	0.20	mg/l	0.3	No Relaxation

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		2017							
17.	Aluminium as Al	IS 3025 (P-55):2003,RA: 2019	*BLQ(**LO Q-0.03)	*BLQ(**L OQ-0.03)	*BLQ(**LO Q-0.03)	*BLQ(**L OQ-0.03)	mg/l	0.03	0.2
18.	Boron	APHA (23 rd Edition) 4500B: 2017	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	mg/l	0.5	1.0
19.	Total Silica	IS : 3025 (P-35):1888,RA: 2003	1.62	2.10	1.55	1.93	mg/l	--	--
20.	Phenolic Compounds	APHA 23 rd Edition,2017, 5530 C	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	mg/l	0.001	0.002
21.	Anionic Detergents as MBAS	APHA 23 rd Edition,2017, 5530 C	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	mg/l	0.2	1.0
22.	Zinc as Zn	APHA (23 rd Edition), 3030D,3113B: 2017	0.36	0.39	0.30	0.27	mg/l	5.0	15.0
23.	Copper as Cu	APHA (23 rd Edition),3113B: 2017	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	*BLQ(**LO Q-0.02)	*BLQ(**L OQ-0.02)	mg/l	0.05	1.5
24.	Manganese as Mn	APHA (23 rd Edition)3030D,3113 B: 2017	*BLQ(**LO Q-0.05)	*BLQ(**L OQ-0.05)	*BLQ(**LO Q-0.05)	*BLQ(**L OQ-0.05)	mg/l	0.1	0.3
25.	Cadmium as Cd	APHA (23 rd Edition)3030D,3113 B: 2017	*BLQ(**LO Q-0.002)	*BLQ(**L OQ-0.002)	*BLQ(**LO Q-0.002)	*BLQ(**L OQ-0.002)	mg/l	0.003	No Relaxation
26.	Lead as Pb	APHA (23 rd Edition)3030D,3113 B: 2017	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	mg/l	0.01	No Relaxation
27.	Selenium as Se	APHA (23 rd Edition)3114C,2017	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	mg/l	0.01	No Relaxation
28.	Arsenic as As	APHA (23 rd Edition),3114C,2017	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	*BLQ(**LO Q-0.005)	*BLQ(**L OQ-0.005)	mg/l	0.01	0.05
29.	Mercury as Hg	APHA (23 rd Edition)3114C,2017	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	*BLQ(**LO Q-0.001)	*BLQ(**L OQ-0.001)	mg/l	0.001	No Relaxation
30.	Hexa Valent Chromium	APHA (23 rd Edition)3500 Cr B:2017	*BLQ(**LO Q-0.01)	*BLQ(**L OQ-0.01)	*BLQ(**LO Q-0.01)	*BLQ(**L OQ-0.01)	mg/l		
31.	Residual Free Chloren	IS :3025(P-26): 2021	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	*BLQ(**LO Q-0.2)	*BLQ(**L OQ-0.2)	mg/l		
32.	Temperatur e	IS :3025(P-9):1984,RA:2017	24.9	25.3	25.9	24.6	°C	--	--
33.	Total Coliform	IS:15185: 2016	Absent	Absent	Absent	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample	
34.	E.Coli	IS:15185: 2016	Absent	Absent	Absent	Absent	Per 100 ml	Shall not be detectable in any 100 ml sample	

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

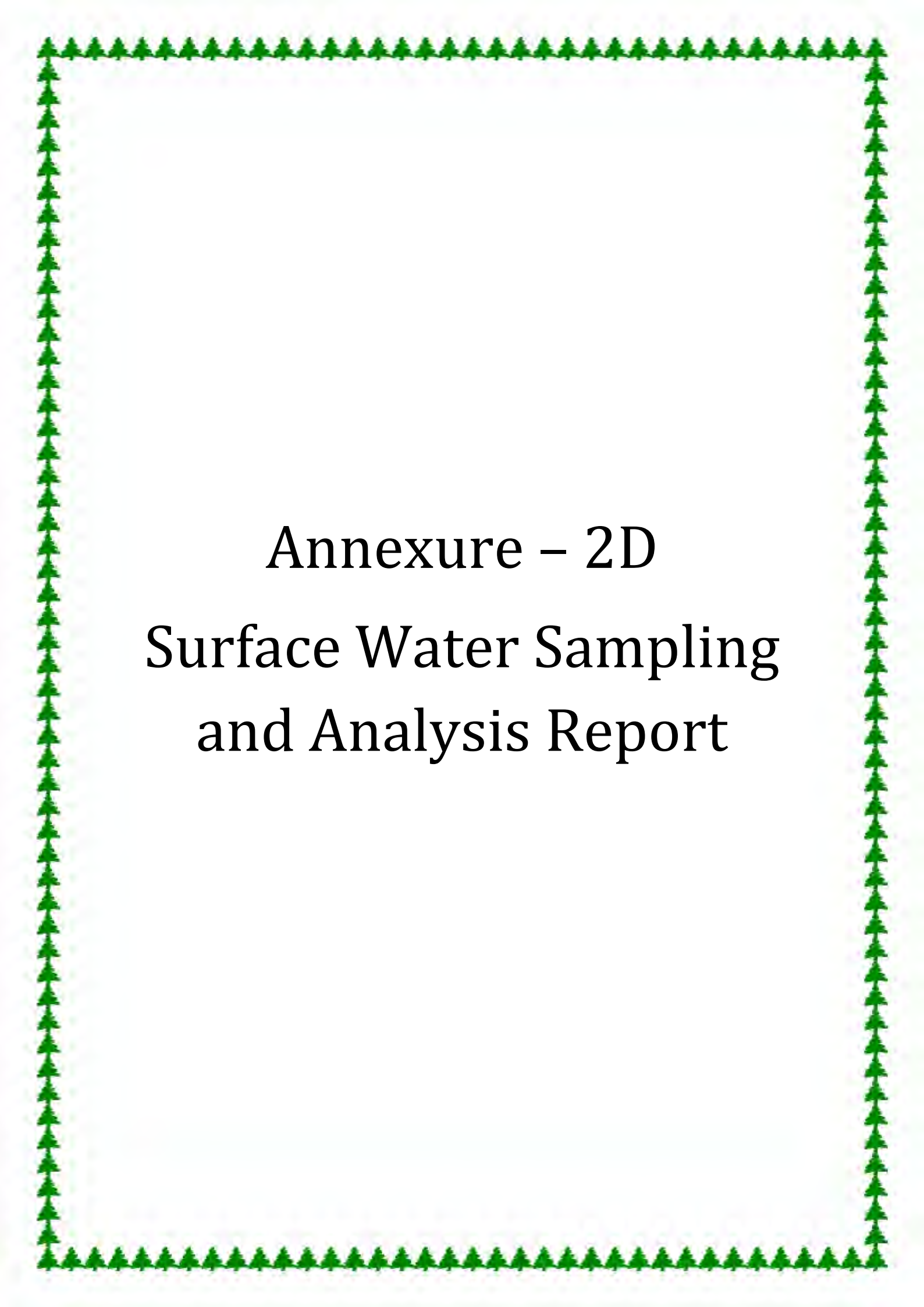
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Term & condition: PTC

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Annexure - 2D
Surface Water Sampling
and Analysis Report



TEST REPORT

VIBRANT
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Name & Address of Party:

M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant,
Village: Motia, Dist: Godda, Jharkhand

Format No.: 7.8 F 01
Party Reference No.: NA

Period of Analysis: Apr.2024 To Sep. 2024

Sample Description:: Surface Water
Sampling & Analysis Protocol: IS-3025

S. No.	Parameter	Test Method	Ganga River Apr. 2024	Ganga River July. 2024	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.29	7.12	°C
2.	Colour	IS 3025(P-4): 2021	*BLQ(**LOQ-5.0)	*BLQ(**LOQ-5.0)	Hazen
3.	Turbidity	IS 3025 (P-10): 1984,RA: 2017	2.01	3.2	NTU
4.	Odour	IS 3025 (P-5)1983	Agreeable	Agreeable	--
5.	Taste	IS 3025(P-8) 1984	Agreeable	Agreeable	--
6.	Total Hardness as CaCO ₃	IS: 3025 (P-21): 2009,RA: 2019	125	110.0	mg/l
7.	Calcium as Ca	IS: 3025 (P-40): 1991, RA: 2019	39.68	32.66	mg/l
8.	Alkalinity as CaCO ₃	IS: 3025 (P-23): 1986,RA: 2019	152.0	140.0	mg/l
9.	Chloride as Cl	IS: 3025 (Part 32):1988, RA:2019	35.61	29.45	mg/l
10.	Cyanide as CN	IS: 3025 (P-27)1986	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
11.	Magnesium as Mg	IS: 3025 (P-46): 1994, RA: 2019	6.32	6.93	mg/l
12.	Total Dissolved Solids	IS 3025 (P-16): 1984RA: 2017	333.0	310.0	mg/l
13.	Sulphate as SO ₄	IS: 3025 (P-24): 1986 Sec.1 RA: 2022	34.26	21.45	mg/l
14.	Fluoride as F	APHA (23rd Edition), 4500FD:2017	0.36	0.31	mg/l
15.	Nitrate as NO ₃	IS: 3025 (P-34): 1988,(Chromotropic Method) RA: 2022	6.12	6.10	mg/l
16.	Iron as Fe	APHA (23rd Edition),3113B: 2017	0.19	0.23	mg/l
17.	Aluminium as Al	IS 3025 (P-55):2003,RA: 2019	*BLQ(**LOQ-0.03)	*BLQ(**LOQ-0.03)	mg/l
18.	Boron	APHA (23rd Edition) 4500B: 2017	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-0.2)	mg/l
19.	Total Silica	IS : 3025 (P-35):1888,RA: 2003	4.72	2.96	mg/l
20.	Phenolic Compounds	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
21.	Anionic Detergents as MBAS	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
22.	Zinc as Zn	APHA (23rd Edition), 3030D,3113B: 2017	0.21	0.26	mg/l
23.	Copper as Cu	APHA (23rd Edition),3113B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l
24.	Manganese as Mn	APHA (23rd Edition)3030D,3113B: 2017	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l
25.	Cadmium as Cd	APHA (23rd Edition)3030D,3113B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l
26.	Lead as Pb	APHA (23rd	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

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TEST REPORT

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		Edition)3030D,3113B: 2017			
27.	Selenium as Se	APHA (23 rd Edition)3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
28.	Arsenic as As	APHA (23 rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
29.	Mercury as Hg	APHA (23 rd Edition)3114C,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
30.	Hexa Valent Chromium	APHA (23 rd Edition)3500 Cr B:2017	*BLQ(**LOQ-0.01)	*BLQ(**LOQ-0.01)	mg/l
31.	Residual Free Chloren	IS :3025(P-26): 2021	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-0.2)	mg/l
32.	Temperature	IS :3025(P-9):1984,RA:2017	24.8	25.4	°C
33.	Total Coliform	IS:15185: 2016	Present	Present	Per 100 ml
34.	E.Coli	IS:15185: 2016	Present	Present	

Note: - *BLQ-Below Limit Quantification, *LOQ- Limit of Quantification




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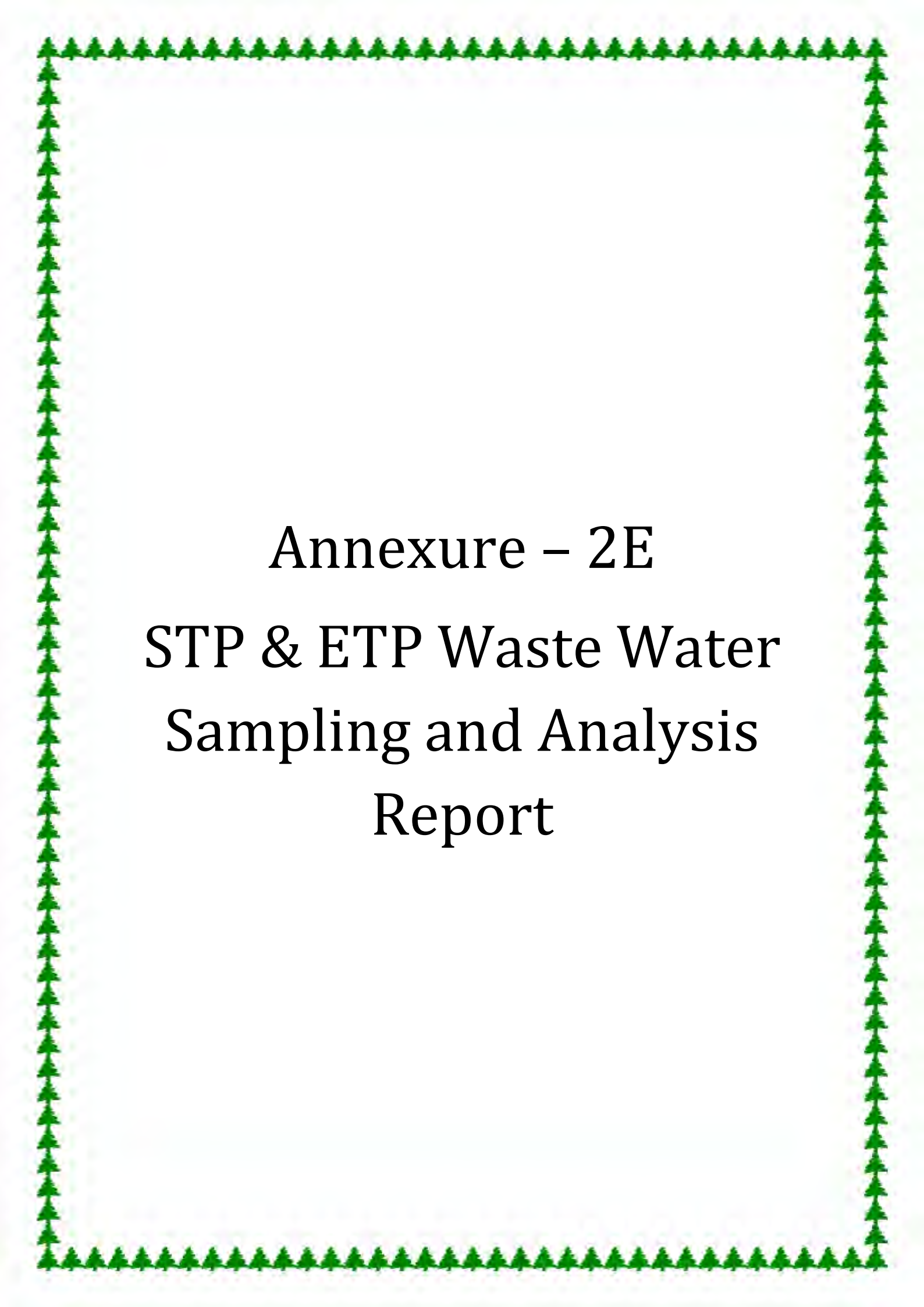
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Annexure – 2E
STP & ETP Waste Water
Sampling and Analysis
Report



VIBRANT

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Name & Address of the Party

M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant,
Village: Motia, Dist: Godda, Jharkhand
IS-3025

Format No.: 7.8 F 01
Party Reference No.: NIL

Analysis Protocol:

As per work order

Period of Analysis: Apr.2024 To Sep. 2024

Parameter Required:

Sample Description :

Waste Water

Summary Reports

S.No.	Parameter	Apr. 2024						May. 2024			June. 2024		
		STP Outlet (Township)	STP Outlet (Plant)	STP Inlet (Township)	STP Inlet (Plant)	ETP Outlet	ETP Inlet	STP Outlet (Township)	STP Outlet (Plant)	ETP Outlet	STP Outlet (Township)	STP Outlet (Plant)	ETP Outlet
1.	PH	7.62	7.40	7.40	7.29	7.56	7.42	7.35	7.26	7.59	7.31	7.23	7.63
2.	TDS mg/l	890.0	930.0	890.0	756.0	962.0	842.0	930.0	820.0	870.0	910.0	860.0	940.0
3.	TSS mg/l	16.3	42.1	32.1	19.6	68.9	65.1	35.6	20.9	13.9	33.6	21.4	14.6
4.	O&G mg/l	*BLQ (**LO Q 4.0)	5.6	5.8	4.1	8.6	6.9	5.6	4.3	*BLQ (**LOQ -4.0)	5.1	4.8	*BLQ (**LOQ-4.0)
5.	BOD mg/l	9.50	25.6	22.5	18.5	45.2	53.6	21.0	20.0	10.0	19.4	16.8	12.4
6.	COD mg/l	60.0	210.0	110.0	70.0	310.0	410.0	99.89	75.6	65.2	89.48	69.4	60.45

S.No.	Parameter	July. 2024						Aug. 2024			Sep. 2024		
		ETP Outlet	ETP Inlet	STP Outlet (Township)	STP Outlet (Plant)	STP Inlet (Township)	STP Inlet (Plant)	ETP Outlet	STP Outlet (Township)	STP Outlet (Plant)	ETP Outlet	STP Outlet (Township)	STP Outlet (Plant)
1.	PH	7.52	7.89	7.23	7.20	7.59	7.40	7.10	7.26	6.92	7.15	7.19	6.83
2.	TDS mg/l	840.0	896.0	710.0	706.0	902.0	810.0	878.0	864.0	819.0	845.0	814.0	780.0
3.	TSS mg/l	14.9	46.7	27.4	17.4	72.7	69.0	11.8	29.7	19.26	10.2	26.7	17.5
4.	O&G mg/l	*BLQ (**LO Q-4.0)	5.3	5.3	4.2	8.1	6.3	*BLQ (**LO Q-4.0)	4.9	3.7	*BLQ (**LO Q-4.0)	4.1	3.3
5.	BOD mg/l	8.00	27.5	18.5	15.5	49.3	59.1	10.2	17.5	14.8	8.6	15.7	12.4
6.	COD mg/l	49.56	240.0	96.1	75.9	341.0	440.0	52.0	72.0	58.4	48.0	68.0	52.1

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

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Annexure – 3F
Noise Monitoring Report



TEST REPORT

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Name & Address of the Party

M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant,
Village: Motia, Dist: Godda, Jharkhand
IS-9989 & CPCB Guidelines

Format No.: 7.8 F 04
Party Reference No.: NIL

Analysis Protocol:

As per work order

Period of Analysis: Apr. 2024 To Sep. 2024

Parameter Required:

Ambient Noise Level Monitoring

Sample Description :

Summary Reports

S.NO.	Location	Apr- 2024 Leq (dB)		May - 2024 Leq (dB)		June - 2024 Leq (dB)		July - 2024 Leq (dB)		Aug.-2024 Leq (dB)		Sep.-2024 Leq (dB)	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1.	Near BTG Area	71.6	65.1	73.2	63.5	74.1	64.1	69.7	64.1	68.9	59.4	65.7	57.4
2.	Near CT	62.9	51.7	63.8	50.8	64.3	51.3	61.4	50.8	61.9	50.2	60.5	49.3
3.	Near RW Reservoir	50.4	41.4	49.7	40.2	50.9	41.6	51.2	40.1	52.3	42.4	51.3	40.8
4.	Near Adani Office	49.1	40.5	50.6	41.9	49.7	40.8	50.7	41.6	47.8	38.1	48.5	37.9
5.	Near Temple (In Township)	53.7	42.8	52.1	43.7	51.6	42.1	52.3	41.2	50.2	39.9	52.4	42.3
6.	Near STP (Township)	48.6	38.5	47.9	39.4	48.4	40.1	49.6	39.0	47.6	38.4	49.0	39.5
7.	At Motia Village	49.9	39.1	48.6	40.9	47.9	41.7	50.8	40.8	49.1	40.3	47.5	37.9
8.	At Mali Village	48.1	40.6	49.5	41.2	50.4	42.0	47.9	41.5	53.0	38.7	51.7	40.2
9.	At Nayabad Village	50.6	43.1	52.9	42.5	51.6	41.9	49.8	42.1	48.5	37.8	49.2	38.0
10.	At Patwa Village	49.3	40.9	50.3	41.7	49.2	40.1	50.4	39.9	50.6	41.1	52.7	43.5

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Authorized Signatory

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Annexure – 2G
Water Level Monitoring
Report



TEST REPORT

Sample Number: VTL/ WL/01
Name & Address of Party: M/s Adani Power Jharkhand Ltd.
2 × 800 MW Thermal Power Plant, Village:
Motia, Dist: Godda, Jharkhand
Sample Description : Water Level

Report No.: VTL/WL/2404190001-04
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 25/04/2024
Receipt Date: 19/04/2024

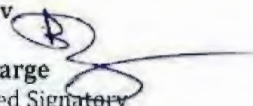
RESULTS

S. No.	Location Name	Plinth Height	Total Depth Of Well From R.L	Total Depth Of Well From G.L	Depth of Water Table From G.L	Water Column	Dia-Meter	Remark
1.	MOTIA VILLAGE	0.70	5.90	5.2	3.14	2.06	2.15	--
2.	MALI VILLAGE	0.50	6.20	5.7	3.79	1.91	2.25	--
3.	NAYABD VILLAGE	0.65	6.75	6.1	4.54	1.56	1.96	--
4.	PATWA VILLAGE	0.70	6.50	5.8	3.63	2.17	2.5	--


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TEST REPORT

Sample Number: VTL/ WL/01
Name & Address of Party: M/s Adani Power Jharkhand Ltd.
2 × 800 MW Thermal Power Plant, Village:
Motia, Dist: Godda, Jharkhand
Sample Description : Water Level

Report No.: VTL/WL/2407230001-04
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 30/07/2024
Receipt Date: 23/07/2024

RESULTS

S. No.	Location Name	Plinth Height	Total Depth Of Well From R.L	Total Depth Of Well From G.L	Depth of Water Table From G.L	Water Column	Dia-Meter	Remark
1.	MOTIA VILLAGE	0.7	5.9	5.2	2.5	2.7	2.15	--
2.	MALI VILLAGE	0.5	6.2	5.7	2.95	2.75	2.25	--
3.	NAYABD VILLAGE	0.65	6.75	6.1	3.75	2.35	1.96	--
4.	PATWA VILLAGE	0.7	6.5	5.8	2.85	2.95	2.5	--

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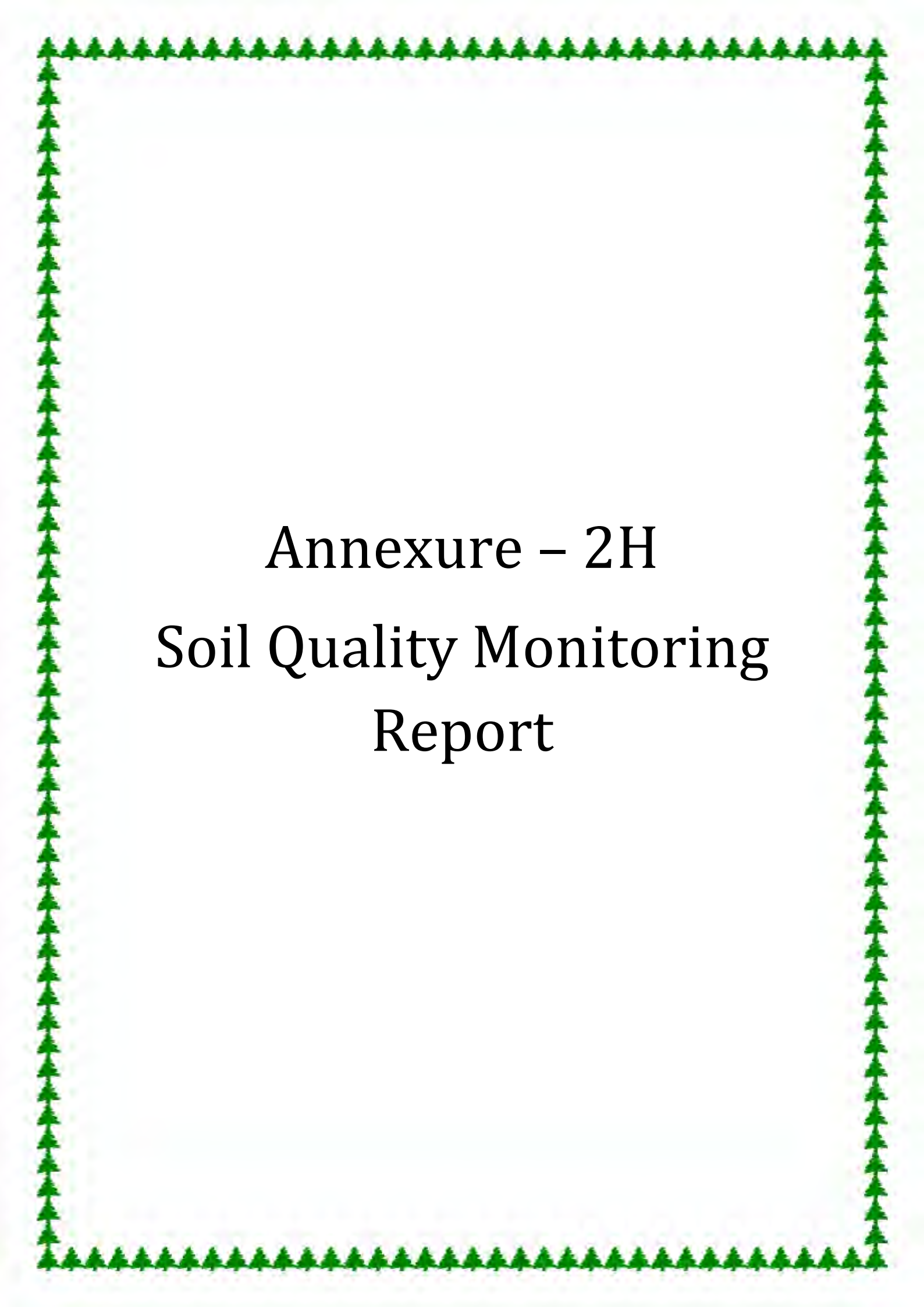
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Annexure - 2H
Soil Quality Monitoring
Report



VIBRANT
"Experience the unimaginaire"

TEST REPORT

Sample Number: VTL/SO/01-03
Name & Address of the Project: M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant, Village: Motia, Dist: Godda, Jharkhand

Report No.: VTL/SO/2405200001-03
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 25/05/2024
Receipt Date: 20/05/2024
Period Of Analysis: 20-25/05/2024
Sampling Date: 15/05/2024
Type of Sampling: Composite
Sampling Quantity: 2.0 Kg
Depth of Sampling: 30 cm
Packing Status: Temp Sealed

Sample Description: SOIL
Sample Collected by: VTL Team
Method of Sampling: IS 2720 & USDA

Soil Quality Analysis Results

Sr	Parameter	Village- Motia	Village- Mali	Village- Patwa	Unit
1.	pH	7.73	7.61	7.76	-
2.	Conductivity	0.292	0.270	0.306	mS/cm
3.	Chloride as Cl	205.00	187.56	231.26	mg/kg
4.	Calcium as Ca	381.24	349.74	402.25	mg/kg
5.	Sodium as Na	42.43	37.46	45.62	mg/kg
6.	Potassium as K	153.1	124.56	171.45	kg/hect
7.	Organic Matter	0.71	0.61	0.76	%
8.	Magnesium as Mg	145.03	91.45	161.48	mg/kg
9.	Available Nitrogen as N	251.15	196.58	281.94	kg/hect.
10.	Available Phosphorus	24.56	20.15	28.16	kg/hect.

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ADANI POWER (JHARKHAND) LIMITED, GODDA
 2X800 MW Godda Thermal Power Plant
 Continuous Emission Monitoring Report
 Stack: Unit - 1

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Apr-24	10.31	73.66	77.28
2	2-Apr-24	9.95	80.95	78.75
3	3-Apr-24	12.25	85.92	81.73
4	4-Apr-24	12.04	85.86	80.21
5	5-Apr-24	12.14	89.44	75.44
6	6-Apr-24	12.00	87.59	63.66
7	7-Apr-24	11.99	89.44	64.26
8	8-Apr-24	12.04	87.35	77.63
9	9-Apr-24	12.02	88.58	74.19
10	10-Apr-24	11.92	86.20	79.91
11	11-Apr-24	13.32	85.12	83.85
12	12-Apr-24	8.29	78.18	82.90
13	13-Apr-24	13.22	42.21	78.07
14	14-Apr-24	12.75	52.05	78.89
15	15-Apr-24	12.86	51.39	74.37
16	16-Apr-24	12.76	85.23	78.26
17	17-Apr-24	12.98	88.70	92.07
18	18-Apr-24	13.00	60.41	79.69
19	19-Apr-24	12.71	46.25	82.63
20	20-Apr-24	13.17	45.52	77.60
21	21-Apr-24	13.50	43.62	76.38
22	22-Apr-24	13.21	70.46	76.61
23	23-Apr-24	13.10	43.44	75.13
24	24-Apr-24	13.21	39.65	71.88
25	25-Apr-24	13.37	53.38	56.11
26	26-Apr-24	13.30	70.49	71.01
27	27-Apr-24	13.24	79.58	75.45
28	28-Apr-24	8.36	17.45	37.70
29	29-Apr-24	8.82	35.84	39.54
30	30-Apr-24	13.52	80.17	88.37


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 2

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Apr-24	12.07	73.49	52.92
2	2-Apr-24	12.14	82.44	31.23
3	3-Apr-24	11.95	82.69	57.69
4	4-Apr-24	12.43	74.83	58.57
5	5-Apr-24	12.18	76.80	67.42
6	6-Apr-24	12.19	74.67	68.63
7	7-Apr-24	12.45	75.07	72.93
8	8-Apr-24	12.36	57.19	73.89
9	9-Apr-24	12.29	77.70	81.54
10	10-Apr-24	12.54	55.08	83.72
11	11-Apr-24	2.51	18.99	76.30
12	12-Apr-24	11.23	66.05	78.07
13	13-Apr-24	11.77	51.39	77.94
14	14-Apr-24	11.50	49.77	70.50
15	15-Apr-24	11.51	57.30	69.35
16	16-Apr-24	11.35	28.37	68.72
17	17-Apr-24	11.77	51.48	65.28
18	18-Apr-24	11.77	64.84	75.08
19	19-Apr-24	11.75	49.97	82.82
20	20-Apr-24	9.75	89.83	61.88
21	21-Apr-24	12.29	90.10	32.12
22	22-Apr-24	12.29	89.98	66.26
23	23-Apr-24	12.35	92.72	76.51
24	24-Apr-24	8.15	89.19	77.34
25	25-Apr-24	14.64	90.19	80.57
26	26-Apr-24	5.42	48.01	43.97
27	27-Apr-24	8.38	84.81	76.94
28	28-Apr-24	9.04	82.74	77.55
29	29-Apr-24	8.19	51.69	48.47
30	30-Apr-24	14.90	74.14	75.46


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 1

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-May-24	16.19	91.28	87.25
2	2-May-24	12.60	91.36	87.34
3	3-May-24	14.34	91.23	87.25
4	4-May-24	Unit Under Shut Down		
5	5-May-24			
6	6-May-24			
7	7-May-24			
8	8-May-24			
9	9-May-24			
10	10-May-24			
11	11-May-24			
12	12-May-24			
13	13-May-24			
14	14-May-24			
15	15-May-24			
16	16-May-24			
17	17-May-24			
18	18-May-24			
19	19-May-24			
20	20-May-24			
21	21-May-24			
22	22-May-24			
23	23-May-24	27.67	66.89	76.11
24	24-May-24	20.52	77.67	82.31
25	25-May-24	15.04	85.57	79.14
26	26-May-24	15.39	85.33	79.58
27	27-May-24	18.71	69.21	79.31
28	28-May-24		53.00	75.45
29	29-May-24	12.08	67.51	77.41
30	30-May-24	13.45	34.53	75.82
31	31-May-24	17.31	46.44	77.61


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit -2

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-May-23	11.12	70.86	76.18
2	2-May-23	14.30	70.37	75.70
3	3-May-23	13.00	64.30	63.29
4	4-May-23	12.51	78.42	75.71
5	5-May-23	12.47	78.56	75.33
6	6-May-23	12.57	78.10	75.93
7	7-May-23	12.69	79.90	76.24
8	8-May-23	12.65	72.14	76.01
9	9-May-23	12.56	71.65	77.86
10	10-May-23	12.55	82.97	79.00
11	11-May-23	12.33	82.93	79.23
12	12-May-23	12.41	82.77	79.06
13	13-May-23	12.29	83.12	79.16
14	14-May-23	13.24	83.11	79.43
15	15-May-23	17.31	83.09	79.42
16	16-May-23	14.20	82.02	78.20
17	17-May-23	14.86	80.09	76.73
18	18-May-23	12.09	72.27	67.33
19	19-May-23	12.05	77.87	74.05
20	20-May-23	12.48	78.08	72.94
21	21-May-23	12.30	77.99	70.36
22	22-May-23	12.00	75.83	53.38
23	23-May-23	12.23	77.53	73.39
24	24-May-23	12.25	68.15	77.21
25	25-May-23	12.03	72.78	69.69
26	26-May-23	12.44	71.96	75.28
27	27-May-23	12.07	65.27	76.98
28	28-May-23	Unit under Shut Down		
29	29-May-23	19.54	71.41	71.52
30	30-May-23	19.34	69.88	75.31
31	31-May-23	19.49	30.48	76.67


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 1

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Jun-24	18.1	56.2	77.6
2	2-Jun-24	17.7	58.1	78.9
3	3-Jun-24	17.8	42.5	78.1
4	4-Jun-24	18.0	46.5	73.9
5	5-Jun-24	17.9	70.3	79.2
6	6-Jun-24	18.0	72.3	79.9
7	7-Jun-24	17.9	69.8	80.5
8	8-Jun-24	18.0	67.3	78.5
9	9-Jun-24	17.9	74.4	77.8
10	10-Jun-24	17.9	61.9	78.6
11	11-Jun-24	17.8	76.9	82.4
12	12-Jun-24	18.0	74.5	78.0
13	13-Jun-24	18.0	75.9	78.8
14	14-Jun-24	18.1	70.3	77.7
15	15-Jun-24	18.1	63.5	78.1
16	16-Jun-24	18.1	69.0	80.8
17	17-Jun-24	18.1	63.6	81.5
18	18-Jun-24	18.1	68.5	81.7
19	19-Jun-24	17.9	70.8	80.3
20	20-Jun-24	18.4	67.6	79.9
21	21-Jun-24	18.3	76.6	79.6
22	22-Jun-24	18.8	65.38	78.9
23	23-Jun-24	18.5	54.0	77.6
24	24-Jun-24	18.7	69.3	80.4
25	25-Jun-24	18.8	65.8	80.3
26	26-Jun-24	18.9	72.7	79.8
27	27-Jun-24	19.4	73.1	78.3
28	28-Jun-24	19.2	78.6	79.3
29	29-Jun-24	Unit Under Shut Down		
30	30-Jun-24			


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 2

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Jun-24	19.1	57.5	72.8
2	2-Jun-24	19.4	72.5	60.9
3	3-Jun-24	19.4	69.4	74.2
4	4-Jun-24	19.5	62.7	71.7
5	5-Jun-24	19.2	69.2	67.2
6	6-Jun-24	19.4	59.1	73.6
7	7-Jun-24	19.6	73.3	74.5
8	8-Jun-24	19.6	75.8	74.5
9	9-Jun-24	19.5	73.5	72.8
10	10-Jun-24	19.4	75.8	73.1
11	11-Jun-24	19.4	77.8	74.0
12	12-Jun-24	19.5	78.0	76.0
13	13-Jun-24	19.4	77.9	76.0
14	14-Jun-24	19.6	77.7	76.2
15	15-Jun-24	19.3	77.5	74.4
16	16-Jun-24	19.1	77.5	77.9
17	17-Jun-24	19.2	77.5	77.1
18	18-Jun-24	19.3	75.3	72.9
19	19-Jun-24	Unit Under Shut Down		
20	20-Jun-24			
21	21-Jun-24			
22	22-Jun-24			
23	23-Jun-24			
24	24-Jun-24			
25	25-Jun-24			
26	26-Jun-24			
27	27-Jun-24			
28	28-Jun-24			
29	29-Jun-24			
30	30-Jun-24			


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 1

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Jul-24	11.96	77.41	74.48
2	2-Jul-24	11.98	84.54	75.82
3	3-Jul-24	11.85	82.11	79.49
4	4-Jul-24	11.73	78.26	78.86
5	5-Jul-24	11.71	74.78	78.11
6	6-Jul-24	11.63	64.71	59.42
7	7-Jul-24	11.83	32.42	38.76
8	8-Jul-24	11.70	83.22	85.85
9	9-Jul-24	11.72	43.73	59.26
10	10-Jul-24	11.72	41.04	72.52
11	11-Jul-24	11.56	71.87	78.05
12	12-Jul-24	11.79	54.00	78.13
13	13-Jul-24	11.77	52.11	80.62
14	14-Jul-24	11.82	51.29	79.85
15	15-Jul-24	11.66	39.79	80.24
16	16-Jul-24	11.73	33.68	78.89
17	17-Jul-24	12.07	43.43	79.96
18	18-Jul-24	12.12	79.45	48.72
19	19-Jul-24	12.00	52.18	78.96
20	20-Jul-24	12.07	43.52	79.20
21	21-Jul-24	11.85	29.93	77.62
22	22-Jul-24	11.80	31.17	78.35
23	23-Jul-24	11.67	79.72	50.56
24	24-Jul-24	11.86	50.57	74.58
25	25-Jul-24	11.68	73.94	77.62
26	26-Jul-24	11.59	74.53	11.59
27	27-Jul-24	11.71	72.85	77.67
28	28-Jul-24	11.76	73.26	76.04
29	29-Jul-24	11.63	74.57	75.71
30	30-Jul-24	11.87	72.35	75.33
31	31-Jul-24	11.58	74.95	76.86


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 2

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Jul-24	-	-	-
2	2-Jul-24	19.25	77.56	75.17
3	3-Jul-24	19.52	77.75	75.75
4	4-Jul-24	19.43	78.04	73.93
5	5-Jul-24	16.85	71.14	70.38
6	6-Jul-24	Unit Under Shut Down		
7	7-Jul-24	15.43	61.56	60.67
8	8-Jul-24	19.43	77.95	75.95
9	9-Jul-24	19.27	77.61	73.05
10	10-Jul-24	19.7	77.82	69.07
11	11-Jul-24	19.45	77.77	72.85
12	12-Jul-24	19.35	77.80	67.42
13	13-Jul-24	19.06	77.75	69.13
14	14-Jul-24	19.19	77.64	69.83
15	15-Jul-24	19.39	77.73	69.39
16	16-Jul-24	19.56	77.79	61.44
17	17-Jul-24	19.61	77.63	64.93
18	18-Jul-24	19.55	77.84	63.15
19	19-Jul-24	19.59	77.75	66.56
20	20-Jul-24	19.48	77.62	66.30
21	21-Jul-24	19.45	77.52	77.01
22	22-Jul-24	19.48	77.29	76.20
23	23-Jul-24	19.74	77.33	77.84
24	24-Jul-24	17.48	77.43	60.54
25	25-Jul-24	18.21	77.87	55.87
26	26-Jul-24	17.55	77.95	61.13
27	27-Jul-24	17.44	78.28	68.85
28	28-Jul-24	17.68	80.56	77.90
29	29-Jul-24	17.60	76.66	73.94
30	30-Jul-24	18.43	75.37	71.66
31	31-Jul-24	17.66	77.65	72.78


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 1

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Aug-24	12.9	84.8	80.1
2	2-Aug-24	-	-	-
3	3-Aug-24	12.0	82.0	80.3
4	4-Aug-24	12.2	83.3	79.7
5	5-Aug-24	12.0	85.2	78.6
6	6-Aug-24	12.8	84.5	76.7
7	7-Aug-24	14.4	84.8	75.3
8	8-Aug-24	15.2	84.4	73.1
9	9-Aug-24	15.0	84.3	78.1
10	10-Aug-24	15.1	84.1	78.9
11	11-Aug-24	15.1	83.8	78.9
12	12-Aug-24	15.3	83.2	76.0
13	13-Aug-24	15.1	83.0	74.4
14	14-Aug-24	15.1	74.7	72.8
15	15-Aug-24	15.4	63.7	72.4
16	16-Aug-24	15.4	72.9	73.4
17	17-Aug-24	15.2	75.5	74.7
18	18-Aug-24	15.3	73.5	75.9
19	19-Aug-24	15.2	75.5	79.6
20	20-Aug-24	15.4	83.9	79.8
21	21-Aug-24	16.0	83.6	79.3
22	22-Aug-24	16.1	84.7	80.3
23	23-Aug-24	16.1	84.9	75.2
24	24-Aug-24	16.3	84.2	74.5
25	25-Aug-24	16.6	84.9	74.3
26	26-Aug-24	17.0	84.5	74.0
27	27-Aug-24	17.5	84.6	71.7
28	28-Aug-24	18.2	85.1	75.4
29	29-Aug-24	18.7	85.1	79.6
30	30-Aug-24	19.2	85.5	79.9
31	31-Aug-24	20.0	85.1	79.2


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 2

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Aug-24	18.37	80.37	78.67
2	2-Aug-24	Unit Under shut Down		
3	3-Aug-24	16.94	50.58	72.46
4	4-Aug-24	16.59	74.67	66.71
5	5-Aug-24	16.55	65.85	72.56
6	6-Aug-24	17.67	74.56	63.37
7	7-Aug-24	18.50	74.20	68.30
8	8-Aug-24	17.90	75.20	63.00
9	9-Aug-24	16.70	75.80	72.10
10	10-Aug-24	16.86	72.87	76.60
11	11-Aug-24	16.64	72.34	75.31
12	12-Aug-24	16.98	72.10	76.76
13	13-Aug-24	17.09	74.74	78.09
14	14-Aug-24	Unit Under shut Down		
15	15-Aug-24			
16	16-Aug-24			
17	17-Aug-24			
18	18-Aug-24			
19	19-Aug-24			
20	20-Aug-24			
21	21-Aug-24			
22	22-Aug-24			
23	23-Aug-24			
24	24-Aug-24			
25	25-Aug-24			
26	26-Aug-24	13.79	77.79	79.58
27	27-Aug-24	13.26	71.25	70.84
28	28-Aug-24	14.34	78.51	77.05
29	29-Aug-24	14.39	78.22	76.99
30	30-Aug-24	14.13	78.01	76.41
31	31-Aug-24	14.28	77.32	67.01


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 1

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Sep-24	20.36	85.68	78.56
2	2-Sep-24	20.59	68.88	63.34
3	3-Sep-24	21.10	84.67	78.40
4	4-Sep-24	21.21	85.42	79.02
5	5-Sep-24	21.45	85.52	78.56
6	6-Sep-24	21.44	85.51	78.54
7	7-Sep-24	21.68	84.85	77.68
8	8-Sep-24	23.11	84.31	79.39
9	9-Sep-24	23.35	85.06	79.50
10	10-Sep-24	20.16	85.32	79.42
11	11-Sep-24	14.13	84.53	78.42
12	12-Sep-24	15.30	84.89	78.79
13	13-Sep-24	13.92	84.76	78.48
14	14-Sep-24	15.11	84.45	77.57
15	15-Sep-24	12.23	83.27	79.86
16	16-Sep-24	12.17	84.42	81.30
17	17-Sep-24	12.28	83.69	80.39
18	18-Sep-24	12.22	84.39	78.84
19	19-Sep-24	14.48	83.59	81.00
20	20-Sep-24	16.57	83.26	80.06
21	21-Sep-24	14.16	83.30	80.35
22	22-Sep-24	12.15	83.48	81.25
23	23-Sep-24	12.05	83.78	82.18
24	24-Sep-24	11.91	84.02	79.05
25	25-Sep-24	12.09	83.91	79.28
26	26-Sep-24	11.86	84.26	78.11
27	27-Sep-24	12.11	84.10	76.74
28	28-Sep-24	12.06	83.25	78.16
29	29-Sep-24	12.36	82.85	79.99
30	30-Sep-24	12.05	83.25	78.93


ADANI POWER (JHARKHAND) LIMITED, GODDA

2X800 MW Godda Thermal Power Plant

Continuous Emission Monitoring Report

Stack: Unit - 2

S.No.	Date	SPM mg/Nm ³ (Avg)	Sox mg/Nm ³ (Avg)	Nox mg/Nm ³ (Avg)
1	1-Sep-24	14.42	78.21	72.95
2	2-Sep-24	14.25	78.56	75.10
3	3-Sep-24	14.49	79.73	72.06
4	4-Sep-24	14.39	73.96	70.31
5	5-Sep-24	14.48	74.24	70.30
6	6-Sep-24	14.48	74.24	70.30
7	7-Sep-24	14.52	74.21	64.38
8	8-Sep-24	14.16	69.24	69.69
9	9-Sep-24	14.66	56.76	71.43
10	10-Sep-24	14.51	53.14	68.02
11	11-Sep-24	15.02	75.73	71.14
12	12-Sep-24	14.61	76.34	70.19
13	13-Sep-24	14.66	76.19	68.15
14	14-Sep-24	14.59	75.89	64.57
15	15-Sep-24	14.54	67.54	73.81
16	16-Sep-24	14.68	71.44	76.60
17	17-Sep-24	14.44	73.49	78.04
18	18-Sep-24	14.43	77.72	71.92
19	19-Sep-24	15.44	77.74	71.54
20	20-Sep-24	15.60	77.43	75.28
21	21-Sep-24	15.90	77.95	75.03
22	22-Sep-24	15.64	77.38	73.69
23	23-Sep-24	15.83	77.58	73.58
24	24-Sep-24	15.39	76.59	75.20
25	25-Sep-24	15.49	68.54	70.41
26	26-Sep-24	15.45	73.98	67.31
27	27-Sep-24	15.75	70.17	72.85
28	28-Sep-24	15.36	63.91	76.18
29	29-Sep-24	15.65	59.83	79.42
30	30-Sep-24	15.40	83.23	84.67

Annexure - III

adani		Adani Power (Jharkhand) Limited, Godda											
		Summary of Continuous Ambient Air Quality Monitoring System Reports (Apr'2024 to Sep'2024)											
Parameters		CAAQMS 1: Near Residential				CAAQMS 2: Near Cooling Tower				CAAQMS 3: Near Raw Water			
		PM10	PM2.5	SO2	NO2	PM10	PM2.5	SO2	SO2	PM10	PM2.5	SO2	NO2
UNIT		ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³	ug/m ³
MONTH	CPCB LIMIT	100	60	80	80	100	60	80	80	100	60	80	80
APRIL'24	Minimum	49.6	31.8	9.1	32.8	29.4	9.1	16.2	11.7	11.9	7.6	3.5	14.2
	Maximum	86.0	54.8	36.2	47.8	62.2	56.2	45.1	47.3	62.4	58.6	16.4	41.4
	Average	71.9	43.2	15.9	39.8	41.8	40.4	27.9	30.4	22.0	31.7	7.6	30.5
MAY '24	Minimum	24.0	19.3	14.4	21.8	29.1	16.4	12.6	14.3	23.5	26.7	4.3	21.9
	Maximum	76.4	58.5	38.8	44.4	70.0	47.1	26.9	30.9	80.8	58.2	11.1	36.9
	Average	51.0	33.0	23.1	34.7	48.3	30.5	18.2	20.0	43.1	42.2	5.7	29.4
JUNE '24	Minimum	23.6	20.1	17.6	22.9	30.9	9.5	2.2	16.0	18.2	10.1	4.2	3.4
	Maximum	79.1	42.0	47.9	47.4	78.3	52.8	19.8	33.2	82.8	51.2	6.9	42.1
	Average	53.5	30.9	30.7	33.3	58.0	34.6	10.1	22.4	56.4	32.1	5.1	28.7
JULY '24	Minimum	28.1	19.0	17.7	16.0	27.2	13.6	1.0	11.6	15.7	10.7	5.3	5.8
	Maximum	76.0	29.2	47.2	37.9	58.4	48.7	5.9	16.4	61.0	39.5	6.1	30.5
	Average	44.3	23.4	25.3	26.0	40.9	24.6	2.8	13.3	32.7	20.1	5.7	23.3
AUGUST '24	Minimum	24.4	12.7	11.2	11.3	25.0	11.4	2.1	11.1	10.4	4.9	6.0	18.6
	Maximum	61.3	56.6	32.6	31.1	72.3	49.5	14.3	19.1	61.2	29.6	23.6	37.5
	Average	38.6	24.2	15.9	20.0	47.1	28.7	8.5	13.9	27.1	9.4	10.7	29.0
SEPTEMBER '24	Minimum	25.8	11.3	10.0	10.9	19.1	6.6	10.0	9.5	11.9	5.5	7.2	15.1
	Maximum	79.3	39.0	12.5	29.8	85.3	42.6	33.8	18.1	65.2	29.1	24.5	32.7
	Average	44.0	21.8	10.9	18.4	53.4	18.4	19.0	13.2	26.8	14.3	13.9	21.0

	Adani Power (Jharkhand) Limited, Godda	Annexure - IV
	<u>Green Belt Development Details</u>	

Greenbelt Details:

Green belt Area developed (Acre)	83.07
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PLANTED SPECIES IN AND AROUND PLANT PREMISES

Sr. No.	Scientific Name	Common Name
Tress		
1.	Azadirachta indica	Neem
2.	Bauhinia blakeana	Kachnar
3.	Callistemon viminalis	Pink Bottle brush
4.	Casuarina equisetifolia	Saru/Casuarina
5.	Delonix regia	Gulmohar
6.	Anthocephalus cadamba	Kadam
7.	Ficus Benjamina	Golden leaf
8.	Bismarckia nobilis	Bismarckia nobilis
9.	Ficus benghalensis	Banyan/Bargad Tree
10.	Mangifera indica	Aam/ Mango
11.	Polyalthia longifolia	Ashok/ False Ashok
12.	Plumeria alba	Plumeria alba
13.	Syzygium cumini	Jamun
14.	Washingtonia filifera	Washingtonia Palm
15.	Wodyetia bifurcata	Palm
16.	Cassia seamia	Cassia
17.	Albizzia lebeck	Siris
18.	Pongamia pinnata	Karanj
19.	Cordia longifolia	Lasoora
20.	Aegle Marmelos	Bel
21.	Dalbergia sissoo	Shisham
22.	Ficus religiosa	Peepal
23.	Cassia renigera	Cassia
24.	Parkinsonia sp.	Parkinsonia
25.	Cassia fistula	Amaltas
26.	Alstonia scholaris	Satparni
27.	Swietenia mahagoni	Mahogany
28.	Mimusoaps illengii	Mimusoaps illengii
29.	Casuarina equisetifolia	Casurina
30.	Peltophorum pterocarpum	yellow flame
Shrubs		
31.	Allamanda	Yellow Bell
32.	Bougainvillea spectabilis	Bougainvillea/ Booganbel
33.	Clerodendrum inerme	Wild Jasmine
34.	Cycas circinalis	Cycas
35.	Euphorbia milii	Christ Thorn
36.	Ficus panda	Fig Tree
37.	Hymenocallis caroliniana	Spider Lily
38.	Ixora hybrida	Ixora
39.	Jasminum molle	Jui
40.	Jatropha curcas	Ratanjyot,
41.	Nerium indicum	Kaner
42.	Nerium odoratum	Kaner
43.	Plumeria alba	Champa
44.	Tecoma	Yellow Trumpetbush



Adani Power (Jharkhand) Limited, Godda

Green Belt Development Details

Annexure - IV

Green Belt Development



Green Belt Development






Adani Power (Jharkhand) Limited, Godda

Green Belt Development Details

Annexure - IV

Green Belt Development



	ADANI POWER (JHARKHAND) LIMITED	ANNEXURE-V
	2X800 MW GODDA THERMAL POWER PLANT	
	Ash Generation, Utilization and Disposal Details	

Month	Ash Generation			Ash Utilization						Ash Utilization %	Disposals to Dyke (MT)
	Ash Generation (MT)	Fly Ash (MT)	Bottom Ash (MT)	Cement Plant (MT)	Road Project (MT)	Brick Plant (MT)	Export (MT)	Other (MT)	Total Ash Utilization		
April'24	180486.0	144388.8	36097.2	82700.1	34283.2	3438.3	0.0	2607.9	123029.5	68.2	57456.5
May'24	128276.6	102621.3	25655.3	59564.7	36308.4	3295.4	0.0	1826.0	100994.7	78.7	27281.9
Jun'24	135605.0	108484.0	27121.0	55564.9	27978.0	2685.6	0.0	2477.8	88706.3	65.4	46898.8
Jul'24	173818.0	139054.4	34763.6	72259.5	26038.1	1974.2	0.0	6315.1	106586.9	61.3	67231.1
Aug'24	149352.0	119481.6	29870.4	39073.3	27136.2	1934.2	0.0	6009.6	74153.3	49.6	75198.8
Sep'24	162694.0	130155.2	32538.8	45497.2	25053.3	2663.7	0.0	4576.1	77790.3	47.8	84903.7
Total	930,231.6	744,185.3	186,046.3	354,659.8	176,797.3	15,991.4	0.0	23,812.4	571,260.8	61.4	358,970.8



TEST REPORT

Sample Number: VTL/C0/01
Name & Address of the Party: M/S Adani Power Jharkhand Ltd.
 2X800 MW Thermal Power Plant,
 Village- Motia, Dist.- Godda, Jharkhand

Sample Description: Coal


Report No.: VTL/C0/2405240001
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 30/05/2024
Period of Analysis: 26-30/05/2024
Receipt Date: 26/05/2024
Sampling Date: 24/05/2024
Sampling Quantity: 1 Kg.

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	BY AAS Method	BLQ	mg/kg
2.	Mercury (as Hg)	BY AAS Method	BLQ	mg/kg
3.	Chromium (as Cr)	BY AAS Method	1.12	mg/kg
4.	Lead (as Pb)	BY AAS Method	2.29	mg/kg
5.	Ash %	IS 1350 (Part I): 1984, Reaffirmed 2007	36.20	%
6.	Sulphur %	ASTM D-5373-08	0.41	%




 Checked By



RK Yadav
 Lab Incharge 
 Authorized Signatory

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020

9929108691, 9810205356, 8005707098, 9549956601

0141-2954638

bd@vibranttechnolab.com

www.vibranttechnolab.com



Power

Ref: APJL/ENV/FLYASH/153/24

Date: 14.07.2024

To,
Additional Principal Chief Conservator of Forest
Ministry of Environment, Forest & Climate Change
 Integrated Regional Office East Central Region
 Bungalow No- A-2, Shyamali Colony, Doranda
 Ranchi- 834 002, Jharkhand

Sub: Advisory regarding implementation of Notification No. G.S.R. 02 (E) dated 2nd January 2014 and subsequent amendment in 21.05.2020 for supply and use of coal with ash content-regarding.

Ref: File No. L-11011/21/2014-IA, I (T), dated: 13.04.2015.

Dear Sir,

With reference to above subject matter, we are submitting herewith the compliance of said Notification for **Quarterly Average Ash Content** in the coal for the period of **April'2024 to June'2024**.

Quarter - 1	Coal Consumption (MT)	Ash Content in Coal (%)
April'2024 to June'2024	1,202,404	36.96

Total Capacity of TPP: 1600 (2x800) MW

This is for your kind information and record please.

Thanking You,

Yours faithfully,
 for **Adani Power (Jharkhand) Limited**

(R N Shukla)
Head- Environment & Forest
Encl.: As above

Adani Power (Jharkhand) Ltd
 Adani Corporate House
 Shantigram, S G Highway
 Ahmedabad 382 421
 Gujarat, India
 CIN: U40100GJ2015PLC085448

Tel +91 79 2555 4444
 Fax +91 79 2555 7177
 www.adanipower.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India



Power

Ref: APJL/ENV/FLYASH/203/24

Date: 14.10.2024

To,
**Additional Principal Chief Conservator of Forest
Ministry of Environment, Forest & Climate Change**

Integrated Regional Office East Central Region
Bungalow No- A-2, Shyamali Colony, Doranda
Ranchi- 834 002, Jharkhand

Sub: Advisory regarding implementation of Notification No. G.S.R. 02 (E) dated 2nd January 2014 and subsequent amendment in 21.05.2020 for supply and use of coal with ash content-regarding.

Ref: File No. L-11011/21/2014-IA, I (T), dated: 13.04.2015.

Dear Sir,

With reference to the above subject, we are submitting herewith the compliance of said Notification for **Quarterly Average Ash Content** in the coal for the period of **July' 2024 to September'2024**.

Quarter - 2	Coal Consumption (MT)	Ash Content in Coal (%)
July'2024 – September'2024	1,42,5816	34.06

Total Capacity of TPP: 1600 (2x800) MW

This is for your kind information and record please.

Thanking You,

Yours faithfully,

for **Adani Power (Jharkhand) Limited**

(R N Shukla)

Head Environment & Forest

Encl.: As above

Adani Power (Jharkhand) Ltd
Adani Corporate House
Shantigram, S G Highway
Ahmedabad 382 421
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Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India



TEST REPORT


Sample Number:	VTL/FA/01	Report No.:	VTL/FA/2406220001/B
Name & Address of the Party:	M/s Adani Power Jharkhand Ltd. 2 × 800 MW Thermal Power Plant, Village: Motia, Dist: Godda, Jharkhand	Format No.:	7.8 F-01
Sampling Description:	FLY ASH	Party Reference No.:	NIL
		Report Date:	29/06/2024
		Receipt Date:	22-29/06/2024
		Sampling Date:	20/06/2024

TEST RESULTS

S. No.	Parameter	Test-Method	Result
1.	Arsenic as As (mg/kg)	BY AAS Method	BDL
2.	Lead as Pb (mg/kg)	BY AAS Method	0.91
3.	Mercury as Hg (mg/kg)	BY AAS Method	BDL
4.	Chromium as Cr (mg/kg)	BY AAS Method	0.76


Checked By



RK Yadav

Lab Incharge
Authorized Signatory

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Vibrant Techno Lab Pvt. Ltd.

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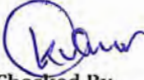
TEST REPORT

Sample Number: VTL/BA/01
Name & Address of the Party: M/s Adani Power Jharkhand Ltd.
2 x 800 MW Thermal Power Plant, Village: Motia, Dist: Godda, Jharkhand
Sampling Description: BOTTOM ASH

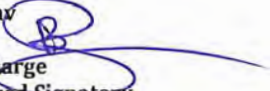
Report No.: VTL/BA/2406220001/B
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 29/06/2024
Receipt Date: 22-29/06/2024
Sampling Date: 20/06/2024

TEST RESULTS

S. No.	Parameter	Test-Method	Result
1.	Arsenic as As (mg/kg)	BY AAS Method	BDL
2.	Lead as Pb (mg/kg)	BY AAS Method	1.83
3.	Mercury as Hg (mg/kg)	BY AAS Method	BDL
4.	Chromium as Cr (mg/kg)	BY AAS Method	0.83


Checked By



RK Yadav

Lab Incharge
Authorized Signatory

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HALF YEARLY REPORT 2024-25

(APRIL 2024- SEPTEMBER 2024)

INTRODUCTION

The Adani Foundation, the CSR arm of Adani Group of Companies, executes **Corporate Social Responsibility projects** for **Thermal Power Plant, Motia** in five main core areas— **Education, Community Health, Sustainable Livelihood Development, Community Infrastructure Development and Climate Action**. With a people's centric approach, the Foundation responds towards the emerging needs at the grass roots level aligning its activities with the 'Sustainable Development Goals (SDGs)' with a vision to end poverty, protect and preserve the planet and bring solidarity and peace among all individuals and society. Adani Foundation aims to walk with the communities, empower people to look ahead by making the right choices and securing a bright and beautiful future, together. The total population of Godda district is 13.13 lakhs, out of which the population of our intervention villages is 85000 approximately. We have been able to benefit 5 lakhs people directly and 13.77 lakhs people indirectly across the stretch of 91 Kms ranged from Godda district to Sahebganj district passing through more than hundreds of projects affected villages by organizing various community development activities in Education, Community Health, Sustainable Livelihood, Rural Infrastructure Development and Climate Action verticals.

The Foundation envisions ensuring access and quality education to 4500 girls of disadvantaged groups of society, reduce gender disparities, promote gender equality, retention of girls in schools, arresting girls' dropout rate, improving girls' enrolment in 9 KGBVs of Godda district by bridging the gaps of school infrastructure, medical support and linkages to government schemes.

In health vertical, on 7th August 2024 at Ranchi district, Adani Power (Jharkhand) Limited, Godda has been felicitated by Ministry of Health and Family Welfare for contributing towards Eradication of TB in Godda district in association with District administration with nutritional support to 353 TB patients in Godda, which significantly aided their recovery. The APJL delegates received an Appreciation Certificate from Jharkhand State Health Minister, Sh. Banna Gupta, during award ceremony in Ranchi.

Under Climate Action, Adani Foundation will be implementing a major project called - **Vruksh Se Vikas / Vruksh Se Samrudhi / Vruksh for Vikas (V4V)** to contribute towards a global commitment to plant '100 million trees' by end of **2030** there by contributing to 'one trillion tree campaign'. The total target of plantation in Godda is **22 Lakh plants**

by the year **2030**. In 2024-25, a total of **50,000 plantations** as per target have been done of horticulture fruit plants, medicinal and timber plants at household, panchayat, and other institutional level. Similarly, the community was supported with basic village infrastructure facilities such as drinking water facilities, model bathrooms, seating places, etc. to make their living a better place at par with urban households.

The robust team of Adani Foundation at Jharkhand comprises of dedicated professionals including CSR Head, four Project Officers, and a medical team comprises of a doctor and three Para medicos.

The progress of CSR projects/interventions from **April 2024 to September 2024** is described in detail as below: -

DETAILED DESCRIPTION OF CSR ACTIVITIES

EDUCATION & RURAL SPORTS

Utthan Programme (Providing Quality Education in Society)

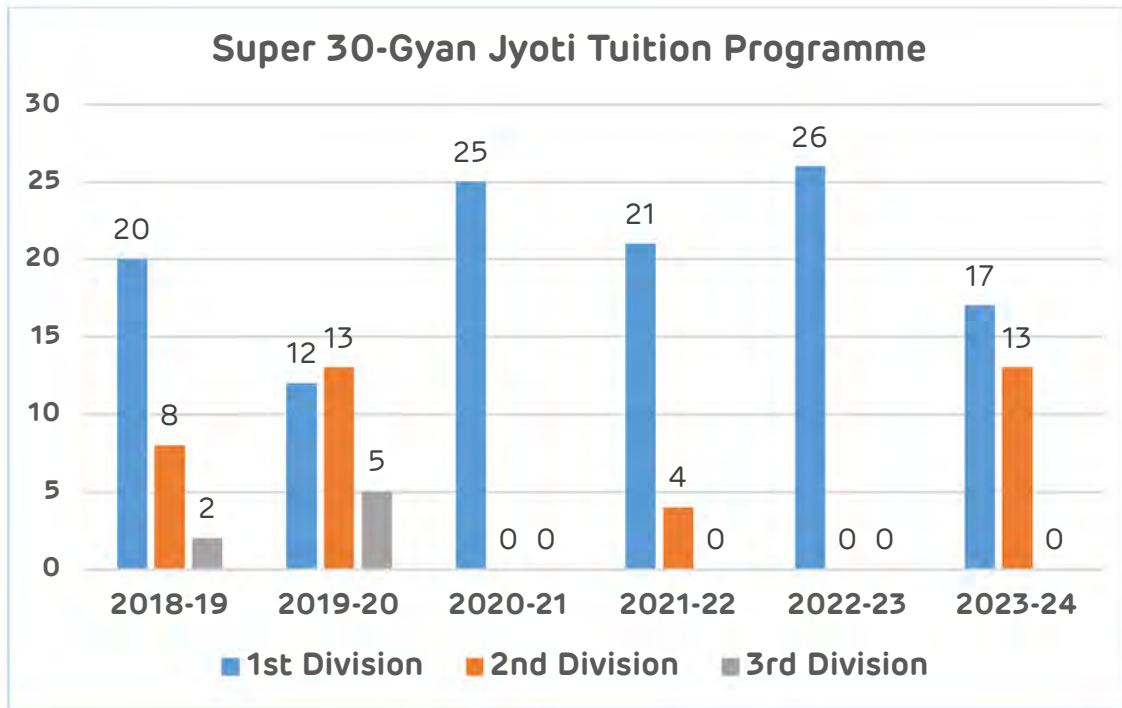
- 1. Adani Competitive Coaching Centre (ACCC)- Gyan Jyoti Tuition Program- Super 30:** - Education plays a vital role in development of society economically, socially, and financially, it also helps them to strengthen, so 'Adani Gyan Jyoti Yojana- Super 30 Program' was initiated in 2018-19 in Motia Village in which 30 students each of 8th, 9th & 10th standard studies at the coaching centre for their concept building. They can prepare for their upcoming examination through concept building and remedial classes provided in Gyan Jyoti Kendra. During Previous year 2023-24, **30 children** were enrolled from class 10th standard in Super 30 coaching program in Motia village.

Programme Outcome

- **Academic Performance (Session 2023-24):** The students learning under Super 30 program in Gyan Jyoti Kendra, Motia have performed extremely well and passed with high grades of Academic Session 2023-24. The students succeeded with improved marks and passed with flying colours in their 10th board examination. All 30 students have passed the exam **(100% passing**

percent). Out of 30 students, 17 students (56.67%) secured 1st division marks, and 13 students (43.33%) got 2nd division marks

Super 30- Class 10 th Results- Gyan Jyoti Tuition Programme								
Academic Session	Gyan Jyoti Kendra	Students			Students			Overall Passing %
		Enrolled	Appeared	Passed	1 st Division	2 nd Division	3 rd Division	
2018-19	Motia	30	30	30	20	8	2	100
2019-20	Motia	30	30	30	12	13	5	100
2020-21	Motia	25	25	25	25	0	0	100
2021-22	Motia	25	25	25	21	4	0	100
2022-23	Motia	26	26	26	26	0	0	100
2023-24	Motia	30	30	30	17	13	0	100



- **Enrollment in Year 2024-25:** In the new session 2024-25, 28 meritorious children (13 Boys and 15 Girls) are enrolled in Super 30 Coaching centre, Motia. This will help students for preparation of Jharkhand 10th board examination to secure higher grades in exams in district and state level advancing them to a better future.

2.KGBV Project: - Adani Foundation envision to ensure access and quality education to the girls of disadvantaged groups of society, reduce gender disparities, promote gender equality, retention of girls in schools, arresting girls' dropout rate, improving girls' enrolment in KGBVs and other govt schools and enhance the academic performance of girl students. The thrust of the project is to empower the Girl children in fields of education along with life skills by creating a learning ecosystem through addressing the educational challenges prevalent in KGBVs. The primary target group of KGBV project will be **4500+ Female students** (500 average students in each KGBV) (SC, ST, OBC, BPL, marginalized and weaker sections of society) of 9 KGBVs from Class 6th to 12th.

Since, 2023-24, Adani Foundation is intervening to strengthen infrastructure of 9 KGBVs namely KGBV Godda, KGBV Sunderpahari, KGBV Pathargama, KGBV Mahagama, KGBV Thakurgangti, KGBV Basantrai, KGBV Poreyahat, KGBV Boarijore, and KGBV Mehrama on a structured manner after conduction of school assessment.

SN	Description	Civil work	RO Water	Roti Maker	Dining Set
1	KGBV Pathargama	Completed	1	1	13
2	KGBV Godda	Completed	1	1	13
3	KGBV Mahagama	Completed	1	1	12
4	KGBV Sunderpahari	Completed	1	1	12
5	KGBV Thakurgangti	Completed	1	1	-
6	KGBV Basantrai	-	-	1	-
7	KGBV Mehrama	-	1	1	-
8	KGBV Boarijore	-	1	1	-
9	KGBV Poreyahat	-	1	1	-
	Total	5	8	9	50

3. Adani Competitive Coaching Centre (ACCC)- Coaching Program for Jawahar Navodaya Vidyalaya (JNV)- Class 6 an initiative of Utthan program of Adani Foundation was begun in January 2020 with an objective to address educational needs of poorer, rural, and tribal children, provide opportunities to bring them at par with others in the development of conducive environment and

build their bright and secured career from right schooling by qualifying Navodaya entrance examination.

Methodology Adopted

- a. Identification of students studying in govt schools for securing selection from rural quota (Enrolment Policy of JNV-75% rural quota, 25% urban quota, Total number of seats -80)
- b. Enrollment of students for preparation of entrance examination in coaching centres followed by registration of students for appearing in entrance examination.
- c. Special coaching classes by teachers (Offline mode) are conducted at different locations at village level and online access to learning materials by students (self-study and smart classes) are adhered.
- d. The preparation of the examination includes arrangement of learning materials, stationery items and miscellaneous items.
- e. Weekly Grand tests are conducted by teachers for evaluation of students' performance and proper follow-up of students is done for improvement area.

Navodaya Coaching Centre	
Centre Name	Enrolled Students
Dumaria	10
Motiya	11
Sondiha	13
Baksara	18
Birnia	24
Kauribahiyar	9
Karnu	16
Thakurgangti	12
Total	113

- **Enrollment for Session 2024-25:** The program is operational in **8 coaching centres** located in 8 core and pipeline villages of Godda district benefiting over **113 students** for preparation and qualifying the examination of Navodaya entrance examination for Academic Session 2025-26. The program is facilitated by **nine skilled Utthan Sahayaks (teachers)**, adequate infrastructure and educational resources (bags, books, Stationary Materials, etc.).

- **Selection in JNV (Result 2024):** 1 student Nayan Kumar from Motia village got selected in JNV.

4. Mainstreaming Rural children into Formal Education System

The Adani Foundation aims to mainstream the poor and marginalized children into formal education systems who are deprived of quality education in core, railway line and pipeline villages. It focuses on mitigating the gap between educational resources and inability to access quality learning.

The Foundation had identified **51 Dropout children** of Amrakamat village of TPP core area who were earlier deprived of schooling. The factors associated were bridged by initiating the **Students Enrollment Campaign** in which children, parents and the community were sensitized and educated on importance of schooling, Aadhar card, its registration and enrollment in the school. All children got issued with their **Aadhar card** and they are now enrolled in **Primary education (Class 1 to Class 4)** in **Upgraded Middle School (UMS), Amrakamat**.

Apart from that, **Regular coaching classes** to a total of **58 children** are given by the Foundation in Coaching center, Amrakanoli and continuous monitoring of 51 children's status going to schools, its outcome and participation of parents is also done.

- 5. Education Support to Palni:** Palni Kumari, a student from Simdega, Jharkhand has achieved a remarkable academic milestone by **securing 75.80% marks**. She dedicated her achievement to Hon. Chairman Sh. Gautam Adani who extended support to meritorious schoolgirl from Jharkhand after ABP reporter shared her plight on Twitter (X).

Adani Foundation has extended financial support to Palni since March 2021, ensuring she receives the necessary assistance to further her education. This inspiring gesture reflects the commitment of the Adani Group towards empowering talented individuals and fostering academic excellence.

6. Support to Improve School Infrastructure

- 1. Books & Bookshelf support in educational institution-** On 13th September 2024, Adani Foundation provided support to students for IIT/JEE Exam preparation which comprised of 45 Books & one Bookshelf in +2 High School Baksara of TPP Core area, Godda. This support will aid over 52 science students of 12th standard for IIT/JEE Exam preparation every year.

7. Construction of a State of Art School (Medium English, CBSE) in Ranitikar village of TPP Core area, Godda for the nearby community & Wards of employees of the Godda power plant for providing quality education by April 2025 under JAC Board and by April 2026 under CBSE Board. In this auspicious occasion, the Bhumi Pujan was done on 3rd April 2024 in presence of esteemed dignitaries and important stakeholders. The Soil filling work has commenced for development of school.

The Bhumi Pujan event commenced in presence of Chief dignitaries namely Sh. Ramesh Jha, Station Head, Sh. Prasun Chakraborty, O & M Head, Sh. Apyaya Jeshtadi, Head Security and other Departmental Heads and Staffs, along with Community leaders. The projected CBSE affiliated English medium school will be from Pre-Primary to 12th Standard of three section each. This will provide quality of education to nearly 1500 students in the area including the wards of the township and the children of the TPP Core area.

Capacity Building & Awareness Programme

1. Celebration of International Yoga Day 2024: International Yoga Day was celebrated on 21st June 2024 at Officer Club, Shantivihar Township and community level in core and railway line villages. Over 200 members including employees, and their family members had attended the yoga workshop organized at APJL site.

Similarly, more than 1200 students from 15 schools and 10 Anganwadi centres and 500 villagers including Women SHG groups of TPP core area had actively participated during the occasion and inculcated various Yoga asanas and their benefits to keep healthy and understood the importance of Yoga in holistic development of their life.

2. Celebration of World Environment Day (5th June 2024) at TPP Core Area

On the occasion of **World Environment Day on June 5**, Adani Foundation had organized series of community engagement activities such as **Awareness Rally, Plantation drive, oath-taking ceremony and school level competitions (drawing and paintings), selfie by children, Nukkad Natak, etc.** in several TPP Core area location including **8 schools, 6 Anganwadi Centers, and public places with participation of more than 300 students, local leaders, schoolteachers, and SMC Adhyaksh & team members.**

The program was inaugurated in the presence of Village Head, PRI members, schoolteachers, students and community who delivered speeches and motivated the students on importance of Environment Day and conservation of environmental. Various environmental & global issues such as deforestation, environmental pollution, soil erosion, land degradation, health issues and global

warming based on sign boards, posters, placards, etc. were informed to the community within radius of 2 km in their villages.

During the occasion, **35 plants (Guava and Lemon)** were planted at different community places such as schools, Anganwadi centers, and other public places. The program had a significant response from the participants which sharpened the art and craft skills of students, their imaginations and prospectives towards environment and preservation of biodiversity was well conveyed.

3. Cultural Days Celebrated in Schools

Under Utthan Program, Adani Foundation celebrated Teachers' Day on September 5, 2024, and Hindi Diwas on September 14, 2024, in 12 TPP schools, with total participation of 1200 students & 40 teachers. On Teachers' Day, students decorated their classrooms, gifted pens to their teachers, gave thoughtful speeches, and made thank you cards for teachers. **On Hindi Diwas Day,** students and teachers took out a rally to the village square to make the villagers aware of Hindi, recited poems, played Hindi word games and read poems and stories.

Supporting Sports & Cultural Events

- 1. Sports Tournament: 2 sports tournaments** including Football, Badminton, Cricket, Netball, and general sports were organized with coverage of 10 core villages, and pipeline areas of Godda district involving children & rural youths to instill them with confidence, develop their personality and motivate them for shaping bright future and development of youths in athletes. More than **740 players** and **3000** audiences had participated and cheered their favorite team from nearby villages, maintaining safety protocols.

Football Tournament						
SN	Date	Block	Village	No. Of Days	No. Of Team Participated	Players
1	05.09.2024	Pathargama	Bada Dumrahir	2	16	240
State level Sports tournament- Khelo Jharkhand						
2	10.09.24-20.09.24 (10 days)- October (1 month)	Ranchi	Ranchi	10	29	500
Total						740

- 1. Sports Kit Distribution: 5 Sports kits** were distributed to 33 Sports teams comprising of Football kit, cricket kit, jersey, trouser, T-Shirt, etc. under rural youth engagement program to promote recreational activity and sports events

in 4 core, and pipeline villages of Pathargama, Podaiyahat, Godda and Borio block of Godda district. It helped them with regular practice and a means of recreation. The distribution of kit helps youth in more engaged in constructive activity.

Sports Kit Distribution					
Particulars	Date	Village	Block	Unit	No. Of Team
T-Shirt	June 2024	SBSSPS Tribal College,	Pathargama	50	1
Set of Football, Uniforms, & Boots	June 2024	KGBV, Sahebganj	Borio	15	1
Set of Football, Uniforms, & Prizes	August 2024	Godda	Godda	60	2
Sports Uniforms (Jersey)	September 2024	+2 High School Baksara and Godda	Podaiyahat & Godda	500	29
Trousers and Collar-T-Shirt	September 2024	Godda	Godda	140	70
Total				765	33

- **Cultural materials support in educational institution:** On 10th August 2024, 1 set of Amplifier was provided in Middle School, Dumaria of TPP Core area, Godda, useful to conduct cultural programs in school.

AWARDS

- **Appreciation by District Administration for Strengthening KGBV-** On 16th April 2024, the District Administration of Godda has felicitated Adani Foundation for exceptional efforts towards enhancing the quality of education in Godda district by strengthening public educational institution such as Kasturba Gandhi Balika Vidyalaya (KGBV).

AF supported Digital Learning Program, Education Infrastructure development and support of basic school amenities such as drinking water, kitchen essentials, etc. has played a fundamental role in shaping lives of over 3000 girls studying in six Kasturba Gandhi Balika Vidyalaya in Godda district.

COMMUNITY HEALTH PROGRAMME

Mobile Health Care Unit (MHCU)

In the half financial year 2024-2025 (April'24- Sep'24), four Mobile Health Care Units have together catered to **39,413 patients including 13,015 male, 17,263 female and 9,135 children** from around **126** Core, Periphery, Railway line and Pipeline villages of Godda and Sahebganj district. Adani Foundation runs its own MHCU (1) in core villages, while it has partnered with Helpage India (1) and Wockhardt Foundation (2) to extend primary medical services in periphery and pipeline villages respectively. All these four MMUs provide services in the villages as per schedule through a team of a Doctor, a Pharmacist, an ANM, and a Social Protection Officer. AF supported mobile medical facilities goes a long way to ensure access of poor people to quality primary health care services at their doorstep.

- ❖ **Mobile Health Care Unit in Core villages:** During the half financial year 2024-25, Adani operated Mobile Health Care Unit in core villages of TPP area have conducted medical camp along with disbursement of free medicines at 9 locations covering 13 villages along with labourers working at Site office on daily basis to cater medical needs of the villagers at grassroots. Moreover, 24 hours emergency services were regulated from Ambulance at Site Office, Motia for treatment/hospitalization of critical patients of nearby project affected areas in concerned hospitals outside district.

Total **5142** patients including **1658** males, **2328** females & **1156** children have been served in this year.

Patients treated by Adani Operated MHCU- Core area in April'24 – Sep'24					
SN	Month	Males	Females	Children	Total
1	April	248	332	143	723
2	May	204	352	137	693
3	June	191	303	180	674
4	July	332	457	241	1030
5	August	356	439	215	1010
6	September	327	445	240	1012
Gross Total		1658	2328	1156	5142

- ❖ **Helpage India operated MHCU for Periphery Villages:** Helpage India operated MHCU delivered medical services in 29 periphery villages coming under buffer zone 1 and railway siding villages of Adani Power Plant. MHCU was operational at 17 sites covering 29 locations benefitting over total **13518** patients including **4360** males, **5439** females and **3719** children.

Patients treated by Helpage India MHCU in April'24 – Sep'24					
SN	Month	Males	Females	Children	Total
1	April	669	784	498	1951
2	May	731	1001	578	2310
3	June	649	932	575	2156
4	July	787	982	751	2520
5	August	743	883	705	2331
6	September	781	857	612	2250
Gross Total		4360	5439	3719	13518

- ❖ **Wockhardt Foundation operated MHCU for Pipeline Villages in Godda:**
Adani supported Wockhardt Foundation MHCU team commenced its operation for pipeline area in the villages of Godda district since October '18. Total **10391** patients including **4454** males, **4131** females and **1806** children in 42 villages from 4 blocks namely, Mahagama, Boarigor, Pathargama and Thakurgangti were treated and disbursed free medicines.

Patients treated by Wockhardt Foundation (Godda) MHCU in April'24 – Sep'24					
SN	Month	Males	Females	Children	Total
1	April	668	817	394	1879
2	May	854	875	394	2123
3	June	679	546	267	1492
4	July	526	423	174	1123
5	August	932	754	283	1969
6	September	795	716	294	1805
Gross Total		4454	4131	1806	10391

- ❖ **Wockhardt Foundation operated MHCU for Pipeline Villages in Sahebganj:**
Adani supported Wockhardt Foundation MHCU team commenced its operation for pipeline area villages of Sahebganj district since 21st September '18. Total **10362** patients including **2543** males, **5365** females and **2454** children were treated till Sep'24 in 40 villages from 4 blocks viz. Mandro, Borio, Sahebganj and Taljhari (Boha village) in total 60 stoppages.

Patients treated by Wockhardt Foundation (Sahebganj) MHCU in April'24 – Sep'24					
SN	Month	Males	Females	Children	Total
1	April	457	901	448	1806
2	May	415	834	362	1611
3	June	303	778	386	1467

4	July	321	794	313	1428
5	August	475	1020	477	1972
6	September	572	1038	468	2078
Gross Total		2543	5365	2454	10362

2.Specialized Medical Camps: During the Half Year (2024-25), Adani Foundation endeavored to cater health needs in a specific health issue of the masses amidst Epidemic outbreak by adhering to safety protocols. The Foundation strives to be a catalyst to 'Sustainable human development' and serves the deprived and marginalized human mankind and community with means of rendering appropriate services at grassroots. The triggers adopted for development encompass health as one of the major elements for holistic development of an individual. Moreover, the drive aligns with **Sustainable Development Goals (SDG) 3, 'Ensure healthy lives and promote well-being for all at all ages.**

Adani Foundation had organized **54 Specialized Health Camps in specializations namely, Ophthalmic, Paediatrics, Gynec, Cardio, and Osteo at Health & Wellness Centre, Motia. Total 861 patients** including **204 males, 410 females and 247 children from over 6 villages** were screened, treated, and provided with free medicines.

Details of Specialized Medical Camps							
SN	Date	Specialization	Location	Patients treated			
				Male	Female	Children	Total
1	5/4/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	5	0	5
	5/4/2024		Township	0	1	0	1
2	19/4/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	4	0	4
3	4/4/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	16	9	0	25
	4/4/2024		Township	2	0	0	2
4	18/4/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	4	6	0	10
	18/4/2024		Township	2	0	0	2
5	6/4/2024	Eye – Dr. Sumit Kumar	Health & Wellness Centre, Motia	7	10	2	19
6	3/4/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	18	18
7	17/4/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	9	9
	17/4/2024		Township	0	0	6	6
8	27/4/2024	Orthopedic-Dr.Satendra Mishra	Health & Wellness Centre, Motia	4	3	0	7
9	3/5/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	17	0	17
	3/5/2024		Township	0	2	0	2
10	17/5/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	9	0	9
	17/5/2024		Township	0	3	0	3

11	2/5/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	5	11	1	17
	2/5/2024		Township	1	2	0	3
12	23/5/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	3	3	0	6
13	4/5/2024	Eye – Dr. Sumit Kumar	Health & Wellness Centre, Motia	8	4	1	13
14	1/5/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	11	11
	1/5/2024		Township	0	0	7	7
15	15/5/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	7	7
	15/5/2024		Township	0	0	5	5
16	11/5/2024	Orthopedic-Dr.Satendra Mishra	Health & Wellness Centre, Motia	6	8	0	14
17	25/5/2024	Orthopedic-Dr.Satendra Mishra	Health & Wellness Centre, Motia	8	11	0	19
	25/5/2024		Township	3	0	0	3
18	7/6/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	7	0	7
	7/6/2024		Township	0	2	0	2
19	21/6/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	9	0	9
	21/6/2024		Township	0	1	0	1
20	6/6/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	2	5	1	8
	6/6/2024		Township	0	0	0	0
21	20/6/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	8	6	0	14
	20/6/2024		Township	3	0	0	3
22	15/6/2024	Eye – Dr. Sumit Kumar	Health & Wellness Centre, Motia	4	13	0	17
23	5/6/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	12	12
	5/6/2024		Township	0	0	3	3
24	19/6/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	8	8
	19/6/2024		Township	0	0	3	3
25	8/6/2024	Orthopedic- Dr.Satendra Mishra	Health & Wellness Centre, Motia	1	14	2	17
	8/6/2024		Township	0	1	0	1
26	22/6/2024	Orthopedic- Dr.Satendra Mishra	Health & Wellness Centre, Motia	7	7	3	17
	22/6/2024		Township	0	0	0	0
27	5/7/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	10	0	10
	5/7/2024		Township	0	0	0	0
28	19/7/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	10	0	10
	19/7/2024		Township	0	1	0	1
29	4/7/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	5	11	2	18
	4/7/2024		Township	2	0	0	2
30	18/7/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	6	13	1	20
	18/7/2024		Township	2	3	0	5

31	6/7/2024	Eye – Dr. Sumit Kumar	Health & Wellness Centre, Motia	3	15	0	18
32	3/7/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	17	17
	3/7/2024		Township	0	0	1	1
33	17/7/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	13	13
	17/7/2024		Township	0	0	0	0
34	13/7/2024	Orthopedic-Dr. Satendra Mishra	Health & Wellness Centre, Motia	6	7	1	14
	13/7/2024		Township	1	3	0	4
35	27/7/2024	Orthopedic-Dr. Satendra Mishra	Health & Wellness Centre, Motia	3	8	0	11
	27/7/2024		Township	3	2	0	5
36	2/8/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	6	0	6
	2/8/2024		Township	0	4	0	4
37	16/08/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	13	0	13
38	1/8/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	8	2	1	11
	1/8/2024		Township	3	0	0	3
39	22/08/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	8	9	1	18
40	10/8/2024	Eye – Dr. Sumit Kumar	Health & Wellness Centre, Motia	7	9	1	17
41	7/8/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	13	13
	7/8/2024		Township	0	0	2	2
42	21/08/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	40	40
43	10/8/2024	Orthopedic-Dr. Satendra Mishra	Health & Wellness Centre, Motia	5	6	1	12
44	24/08/2024	Orthopedic-Dr. Satendra Mishra	Health & Wellness Centre, Motia	5	13	4	22
45	31/08/2024	Orthopedic-Dr. Satendra Mishra	Health & Wellness Centre, Motia	3	6	2	11
46	9/6/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	18	0	18
47	9/20/2024	Gynec- Dr. Kiran Jaiswal	Health & Wellness Centre, Motia	0	12	0	12
48	9/12/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	4	7	0	11
49	9/26/2024	Dr. N. Kumar (Cardio)	Health & Wellness Centre, Motia	4	5	0	9
	9/26/2024		Township	1	0	0	1
50	9/7/2024	Eye – Dr. Sumit Kumar	Health & Wellness Centre, Motia	14	20	1	35
51	9/4/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	18	18
	9/4/2024		Township	0	0	5	5
52	9/18/2024	Pediatric- Dr. K.N. Choudhary	Health & Wellness Centre, Motia	0	0	21	21
	9/18/2024		Township	0	0	1	1

53	9/14/2024	Orthopedic-Dr. Satyendra Mishra	Health & Wellness Centre, Motia	6	8	0	14
54	9/28/2024	Orthopedic-Dr. Satyendra Mishra	Health & Wellness Centre, Motia	10	16	2	28
	9/28/2024		Township	1	0	0	1
Total				204	410	247	861

- **General Health Camp cum Awareness Camp** was conducted by AF operated Helpage MHCU in Chaprashi Mohallah village of periphery area benefitting **583 patients including 229 males, 283 females and 71 children** along with disbursement of medicines at free of cost at the camp site to improve the health and well-being of individuals and lead a healthy life.

S.N	Date	Camp Site	Specialization	Patients Treated			
				Male	Female	Children	Total
1	6-Apr-24	Chaprasi Mohallah	General Health Camp	20	35	9	64
2	20-Apr-24	Chaprasi Mohallah	General Health Camp	13	26	2	41
3	4-May-24	Chaprasi Mohallah	General Health Camp	14	24	7	45
4	18-May-24	Chaprasi Mohallah	General Health Camp	18	19	3	40
5	6/15/2024	Chaprasi Mohallah	General Health Camp	20	21	8	49
6	6-Jul-24	Chaprasi Mohallah	General Health Camp	13	22	4	39
7	20-Jul-24	Chaprasi Mohallah	General Health Camp	23	28	7	58
8	3-Aug-24	Chaprasi Mohallah	General Health Camp	30	31	10	71
9	17-Aug-24	Chaprasi Mohallah	General Health Camp	30	24	12	66
10	7-Sep-24	Chaprasi Mohallah	General Health Camp	25	23	6	54
11	28-Sep-24	Chaprasi Mohallah	General Health Camp	23	30	3	56
Total				229	283	71	583

3. Blood Donation Drive: The Adani Power (Jharkhand) Limited, Godda and Adani Foundation, Godda organized the Mega Blood Donation Camp under joint aegis of Medical CSR and OHC to mark the 62nd Birthday of Sh. Gautam Adani, Chairman of the Group on June 24th at Officer's Club, Motia site.

Sh. Ramesh Jha, Station Head, Operations & Maintenance (O & M), Sh. Prasun Kumar Chakraborty, Vice President - Operations & Maintenance (O & M) and Medical Head greeted the medical officers from District Health department,

Godda with a flower bouquet and jointly inaugurated the Blood Donation Camp by performing the lamp lighting rituals. All the dignitaries recognized the good work of the blood donors and gave away the certificates to boost the morale of donors. More than **412** employees, contractors' staff and workers donated blood on this occasion, creating an indelible mark for the highest collection on a day in the district.

The occasion witnessed the enthusiasm and passion among the blood donors to serve the cause of humanity. The idea was to save human lives at the time of emergency. The Adani Foundation played a major role in organizing the camp and the efforts of all the organizers including the HR-Administration and OHC were appreciated by all. **T- Shirts, Certificates, Selfie point, Banner, Dangler, Prizes (Umbrella & Cap)**, juice, and snacks were arranged for the donors and the organizers on the occasion. Donors were also awarded certificates of appreciation duly signed off by the **Adani Foundation Chairperson, Mrs. Priti G. Adani**, that provided the sense of elevation to all. It turned out to be a memorable moment.

4. Plantation on the eve of 62nd Birthday of Chairman of the Group: On 62nd Birthday of Honourable Sh. Gautam Adani, Chairman of the Group on June 24th, 2024, Plantation Drive was organized in High School, Baksara of TPP Core area in presence of esteemed dignitaries, Sh. Ramesh Jha, Station Head, APJL Godda and Sh. Prasun Chakraborty, O&M Head, APJL, Godda who graced the event.

Over 500 students, teachers and School Management Committees (SMCs) had volunteered in plantation activity who planted **251 fruit and non-fruit plants in the campus of school premises**. The ownership of plantation of each plant was taken up by every student. The program was led by students and School Management Committees (SMCs) who expressed their heartfelt gratitude and noble gesture to **Sh. Gautam Adani** on the special day and embarked an ambitious project - **Vruksha se Vikash (Planting 100 million tree)** of **Adani Foundation**. During the occasion, **251 plants (20 Bargad, 20 Peepal, 30 Neem, 30 Gulmohar, 51 Saptaparni and 100 Ashoka)** were planted by students at Baksara High School.

The day marked a significance towards environment protection, afforestation, enhancement of greenery, social and economic development by spreading the message among school children, PRI members, and community. The program was presided by esteemed dignitaries who graced the auspicious occasion with their presence and motivated the children to become the changemaker of the society.

5. Awareness Drive on Specialized Health Camps: Health Camp Awareness Drive has been initiated to inform, aware and educate the villagers and community of 17 core and railway line areas of the intervention of Adani Foundation of providing free Specialized Health Care services at PHC Motia, instrumental in safeguarding the life of approx. **2000** economically backward and marginalized rural population of the society.

Door to door household visit and awareness campaigns are conducted in each village in which the target households are informed about Doctors' schedule, specialization of diseases diagnosed, and sensitized about the importance of good health and productive life for a happy living. Five doctors of concerned specialization namely, Gynec, Pediatrics, Osteo, Cardio, & Ophthalmic are deputed at PHC, Motia on respective days and time duration in monthly and fortnightly manner where the patients reach to the health centre along with their health card for diagnosis of their health complication and follow-up as per doctor's prescription.

Health Awareness Programmes

Medical Services

- ❖ **Health Awareness:** with collaborative efforts of Adani Foundation, Helpage India and Wockhardt Foundation in Peripheral, Pipeline & Railway Line village area to provide support for better community health. Health Awareness Program are organised in area to aware rural people about harmful diseases, maintenance of cleanliness, direction for balance diet which help them to fight from diseases. School children and community persons have become more vocal with active approach towards curbing diseases and sharing of such valuable information among community. **5000+ villagers** benefitted.
- ❖ **Critical Health cases:** Diagnosis of critical cases of laborers working in TPP (site office) is done by CSR Medical Team regularly in an emergency manner.
- ❖ **Ambulance Facility to Poor Patients:** Families from 13 core villages have been benefitted from this initiative of Adani whose families remain loyal and grateful to company for the support provided by us in times of distress. Ambulance service is given to poor people belonging to TPP area in times of medical emergency or for transfer of critical patients to higher centre in Bhagalpur, Deoghar, Ranchi, and Patna & Other nearby hospitals. **30+ patients benefitted from ambulance facility.**
- ❖ On the occasion of **World Elders Abuse Awareness Day on June 15, 2024, General Health Camp cum Awareness Camp** was conducted by AF operated Helpage MHCU in Chaprashahi Mohallah village of periphery area benefitting **49 patients including 20 males, 21 females and 8 children** along with disbursement of medicines at free of cost at the camp site to improve the health and well-being of individuals and lead a healthy life.

Seasonal Assistance

- ❖ **Material support (AC) to Govt office, Godda:** Adani provided support to Government department, Godda with 2 split AC (1.5 Ton) on 20th April 2024. It will assist the district administration in smooth operation of public welfare activities and create goodwill among stakeholders.
- ❖ **Wheelchair support for Mobility Disorder People in Godda district:** Adani provided **Wheelchair support** to the District Administration (District Development department) for discharging services to **250 youths, elderly, and the differently abled of Godda district suffering from Mobility Disorder. On dated 20th May 2024 and 22nd May 2024**, 150 Wheelchair was provided for Mahagama block and 100 Wheelchair for Godda block, respectively.
- ❖ **Material support to religious places:** Adani endeavors to support the local community members and religious committee members for social occasions and several religious and community level engagement activities. At this juncture, 1 Set of Battery, Inverter and Battery trolley was provided at Hanuman temple, Motia village on 20th June 2024. Similarly, 2 units of Dustbin were provided in Singheshwar Nath Dham temple, Dare on 28th June 2024.
- ❖ **Drinking water facility to public of TPP Core area and Godda district:** Adani provided support to State Government of Jharkhand and District Administration, Godda with drinking water facility at 13 central locations of Godda district for two months duration namely May 2024 and June 2024. This included Water supply of 100-liter water per day per location and one person deputed for monitoring of availability of water and safety.
- ❖ **Official Material support to Govt office, Godda-** Adani provided support to District Administration, Godda with **9 essential materials on 16th May 2024**. The purpose of this material support is to aid and facilitate the **District Administration of Godda** in ensuring the seamless functioning and management necessary for carrying out their duties effectively towards the welfare and development of the public in the district.
- ❖ **Sanitation Material support to Govt office, Godda-** At Adani, it is endeavoured for Women's Health and safety by devising women's health specific interventions in community and public places. With the request raised by Govt officials, support was provided with respect to Sanitary Pad Dispenser, and Sanitary Pad Incinerator on 11th July 2024 at Civil Court, Godda.
- ❖ **Kitchen Essentials support for Health and Wellness** Adani Foundation endeavors to provide basic facilities to the poorer and village level institution for smooth conduction of social, cultural and religious activities at village level which also enables community engagement activities and foster development of community.

On 17th July 2024, essential kitchen utensils were provided in Shiv Parvati temple in Kushmahara Village, Block Mahagama of pipeline area, Godda.

- ❖ **RO Water support to Religious places and Public Places, Godda-** Adani provided 1 RO (Water Purifier & Cooler) support to Singheshwar Nath Dham temple, Dare on 6th August 2024 and 1 RO (Water Purifier) in District Education Department (SSA Office) at Collectorate Godda on 22nd August 2024. The purpose of this material support is to aid and facilitate the Temple Committee and District Administration in ensuring respect for religious sentiments of local community and devotees and providing drinking water facilities to the public at large.
- ❖ **Wheelchair Support to Differently abled:** On dated 21st August 2024, Adani provided support of 1 unit of Wheelchair to Mr. Manoj Yadav, resident of Ratanpur village, Panchayat Ratanpur, Block Podaiyahat of Godda district. The purpose of this material support is to provide enthusiasm to live a better life to Mr. Manoj Yadav, who lost one of his legs in an accident.
- ❖ **Relief Materials Support to Affected Families from Natural Hazards**
 - i. **Tarpaulin Assistance for Natural Disaster Management:** Under 'Poorer Welfare & Assistance' program, Adani supported the poorer and weaker sections of society affected from natural calamities or uncertain disasters such as fire, flood, cyclone, thunderstorm, etc.

Adani instantly supported **27** affected families of **7** core, railway line and periphery villages with 27 Tarpaulin sheets in May 2024 to September 2024 for addressing the issue and safeguarding over **100 beneficiaries** in Godda district.

Seasonal Assistance to Community					
S N	Project Area	Distribution duration	Name of block	Location/Village	No of HHs
Tarpaulin Support (Affected Families from Natural Hazards)					
1	Periphery Area	27 th May 2024	Podaiyahat	Asadi Madhuri	1
2	Periphery Area	10 th June 2024	Podaiyahat	Sarba	1
3	Core Area	13 th July 2024	Podaiyahat	Sondiha	4
4	Core Area	13 th July 2024	Godda	Ranitikar	5
5	Core Area	9 th August 2024	Godda	Motia	1
6	Pipeline Area	9 th August 2024	Mahagama	Jhirli Panchayat	10
7	Core Area	25 September 2024	Godda	Ranitikar	4
8	Core Area	25 September 2024	Podaiyahat	Rangania	1
Total					27

- ii. **Team Participation in cultural event:** Adani supported the local villagers in organizing festivals and social events to strengthen ties and build relation with

community. It emphasizes to celebrate the cultural program with huge joy and enthusiasm among the rural people. Social occasion program such as Sawan Mahotsav, Bhagwad Katha, International Day of Indigenous Peoples, Ganesh Chaturthi, Janmashtami, Vishwakarma Puja, etc. was celebrated in the villages benefitting more than **2000 rural and tribal communities**.

Welfare Support

- i. **Assistance in Health, Marriage, and Death:** Adani provides financial support to poor people for such events which require huge expense such as marriage ceremony, educational needs, major illness including hospitalization of patient, death of a person. **10** beneficiaries from more than 11 villages have extended financial support to the tune of **Rs. 1,15,638/-**

Support Cause	FY 2024-25 (September 2024)	
	No. of Beneficiaries	Supported Amount
Health Support	0	0
Others Support	1	16538
Marriage Support	2	20000
Death Support	2	60000
Education Support	0	0
Social Occasion Support	5	19100
Total	10	115638

Awards & Accolades

- **On 7th August 2024 at Ranchi district, Adani Power (Jharkhand) Limited, Godda** has been felicitated by Ministry of Health and Family Welfare for contributing towards Eradication of TB in Godda district in association with District administration with nutritional support to 353 TB patients in Godda, which significantly aided their recovery. The APJL delegates received an Appreciation Certificate from Jharkhand State Health Minister, Sh. Banna Gupta, during award ceremony in Ranchi.

Impact Assessment of MHCU and Water Ponds

- **Third Party Impact Assessment of CSR activities was carried out by Mott MacDonald on Health initiatives- four Mobile Health Care Units (MHCU), Health Awareness Program and Water Conservation initiative- 75 Pond Deepening** in more than 26 villages covering around 800 households of TPP Core area, Railway line area and Pipeline area, Godda and Sahebganj district.

- A weeklong Impact assessment was conducted from dated 1st April 2024, related to Household Survey, In-Depth-Interview (IDI), Focused Group Discussion, Case Studies and Interview of Community leaders and important stakeholders.

SUSTAINABLE LIVELIHOODS

1. Adani Skill Development Centre: Adani Skill Development Centre- ASDC, Godda was inaugurated by Executive Director AF- Education and Skills on 27th September 2018. Total Eight trades viz. Welder, Fitter, Mason and Bar bender, General Duty assistant, Hospitality, Electrical, industrial Sewing Machine Operator, and Digital Literacy classes.

- **Enrollment in New Batch in 2024-25:** In the current year 2024-25, a new training batch of Domain Business trades was started from April 2024 onwards. **So far, a total of 221 candidates** are enrolled including **64 candidates in Fitter Mechanical Assembly, 104 in Domestic Data Entry Operator trade and 53 admissions done in SMO trade** in new session **2024-25**. The Self-learning model enables the candidate to build repository of knowledge through access of learning materials provided in the link and after the completion of course, the candidates appear on examination to self-evaluate their performance followed by certification duly provided by NSDC.

2. Adani Annapurna -Vermicomposting in villages: Adani Annapurna - Vermicomposting program was started with an objective to enable farmers to become Vermi-Entrepreneurs to boost their income and uplift their socio-economic condition and promotion of Sustainable Livelihood practices among farmers in more than 13 TPP core, railway line and pipeline villages. In this year **2024-25**, a total of **38 new farmers (20 farmers in pipeline area and 19 farmers in core area)** are provided with **39 units of Vermibed** along with training on vermicompost unit installation. So far, more than 300 new farmers have been given training on Vermicomposting this year.

The farmers have cultivated the culture of organic farming by application of vermicompost and other organic fertilizers in agriculture and plantation of horticulture plants which has increased the crop yields and productivity of the farm produces by 15%. While, the remaining produce is sold to other progressive farmers, vegetable growers, etc. in nearby villages and rural markets which has increased

their livelihood due to an increase in earnings by minimum Rs. 2000- Rs. 5000 on an average per farmer per annum.

3. AMMA- Mushroom Cultivation Project

The Adani Foundation conducted an Awareness meeting to supplement livelihood through oyster mushroom farming. In September 2024, a meeting was held with representatives of around 10 SHG members and farmers in 9 TPP Core area and pipeline villages on oyster mushroom farming. The women members and farmers participated actively and shown interest to undertake training programs. Over 150 Household surveys conducted for Mushroom cultivation project.

CLIMATE ACTION

1. Vruksh Se Vikas or Vruksha Se Samrudhi or Vruksha for Vikas (V4V) - Planting 100 million trees: Promote Environment Conservation, Ecological Restoration, Conservation of Biodiversity, and Income generation of farmers.

Adani Foundation is implementing a project called - **Vruksh Se Vikas / Vruksh Se Samrudhi / Vruksh For Vikas (V4V)** from **2023-24** to contribute towards a global commitment to plant **100 million trees by end of 2030** by contributing to one trillion tree campaign. The objectives of implementing the Plantation project comprise income generation, increasing areas covered by trees, and ecological restoration.

This year **2024-25 50,819 plantations were** done across core, peripheral and pipeline villages in Godda site. The saplings comprised of Mango, Neem, Ashoka, Guava, Citrus (Lemon), Gulmohar, Saptaparni, Peepal, Jamun, Jackfruit, Teak (Shagwan), Ficus (Banyan tree) and other necessary plants.

The amount leveraged in mass plantation in community places was **19.24 Lakh (3206 Plant @ Rs. 600/ plant contribution) through Pit digging, tree guards, irrigation, labour, maintenance, etc. borne by community members.**

Plantation type	Planned (No. of saplings)	Achieved (No. of saplings)	No of beneficiaries
Mass plantation (Adani Van)	2900	3206	21
Individual distribution	47100	47613	1614
Total	50000	50819	1635

Chief Guest Visits & Important Days Celebration

- **Official Visit to Godda site Program:** On dated 20.08.2024 to 22.08.2024, Godda site visit from HO- Adani Foundation was done by Sh. Jija Menon, HR Head & Sh. Jayanta Mohanty, Regional Head in TPP Core areas, peripheral area and pipeline areas in Godda and Sahebganj district. On this occasion, the comprehensive program of Adani Foundation was reviewed by the delegates including Education, Community Health, Sustainable Livelihood, Climate Action and Community Development programs. A tree plantation program was also organized in Baksara High school. Over 80 saplings were planted by the guests and students. Each student adopted a sapling and took an oath to take care of the plants. All teachers and about 400 students at the school participated in this tree plantation program.
- **Documentary Shoot for Badhta Bharat-** On dated 26 August to 31 August, A Documentary team had visited Godda site to shoot a new segment for the Chairman called 'Badhta Bharat' which included the CSR Activities related to tribals tradition and culture, their livelihood, tribals development and other activities. It mainly included local community shoots including culture, art, dance/music, food, places, etc., Local tribal art/artisans, Local folk music and dance, Local cuisine – preparation of food – in a tribal family setting in core and pipeline area of Godda district.
- **28th Adani Foundation Day Celebration-** 28th Adani Foundation Day was celebrated at **Shiv temple located in Dumaria village of Godda block, Godda district** by chief dignitaries, site team and stakeholders including rural beneficiaries, PRI members, and community. It was a festive occasion to celebrate with great joy and enthusiasm by filling the colours of hope and dreams of success, worshiping the human identity and integrity, and encouraging the values of everyone.

On the occasion **Tribal Puja Celebration, tribal dance representing the culture of Santhal Pargana community, 300 Plantation by Chief Guest and villagers** followed by message from Mukhiya and beneficiaries with a gesture to showcase the legacy of Adani Foundation. All community members put forth their well wishes and expressed their heartfelt gratitude to Adani Foundation on breaking the taboos and hurdles of their lives and becoming the foundation for the development of human mankind.

PM Surya Ghar Yojana

Under PM Surya Ghar Yojana, a solar pump was installed of 2 farmers each (Ramnarayan Urav and Gaena Urav) in Chhota Tetariya village of Borio block, Sahebganj district with the support of Adani Foundation in August 2024. This initiative will lead the farmers to irrigation of crops at the right time. Under PM Surya Ghar Yojana, a solar pump was installed of 1 farmer in Chhota Tetariya village of Borio block, Sahebganj district with the support of Adani Foundation in September 2024. This initiative will lead the farmers to irrigate crops at the right time.

Ayushman Health scheme

Linking Poorer to Social Security Entitlement- Ayushman Card- Adani Foundation has organized an Ayushman Card-Registration Drive with an objective to link poorer and needy families with government schemes to provide access to basic facilities for better healthcare which offers health insurance coverage for medical expenses.

At the onset, an awareness campaign was organized in tribal and rural areas of pipeline area in Godda district. During the campaign, the villagers were informed and educated about Ayushman Health scheme, process of registration, benefits of Ayushman Card, etc. The AF team led the Registration program for linking the needy families with Ayushman Card with active participation of community.

A total of **168 Ayushman cards** of the villagers were made in village Karnu, block Mahagama. On getting Ayushman Card, the beneficiaries expressed heartfelt gratitude to AF team.

RURAL INFRASTRUCTURE DEVELOPMENT

Water Conservation, Ground water recharge

- 1. Construction of Stairs at 4 Ponds:** Pond plays a crucial role in the functioning of natural cycle with enhancement of livelihood of human mankind, and natural species of flora and fauna. It enhances the soil moisture in the agricultural land, increases the water storage capacity of other harvesting structures and recharges ground water level in catchment area enabling access to drinking water namely wells, community wells and hand pumps.

In this mid- year **April'24- September'24, Construction of Stairs at 4 Ponds** was done in **4 villages**. It will enable around **70 villagers** dependent on these ponds to conveniently irrigate their land and also aid them in doing their domestic work in their daily routine and conduct cultural and religious programs with great joy and festivity.

S N	Activity/ Name of Pond	Village	Duration	Farmers benefitted	Land Benefitted in Acres
1	Construction of Stairs at Pond	Lakharjora pond, Baliyakitta, Godda	24-May	20	NA
2	Construction of Stairs at Pond	Lohiyannagar Pond near Hanuman temple, Godda	June-24	12	NA
3	Construction of Stairs at Pond	Khandar pond, Bhagaiya Thakurgangti	24-Jun	22	NA
4	Construction of Stairs at Pond	Belbadda, Mehrama	24-Jun	25	NA
Total				79	

Drinking Water Facility

- 1. Installation, Renovation & Repairing Work of Hand pump:** Hand pumps are primary source for drinking water and other domestic needs in the TPP area. The Adani Foundation has taken up the hand pumps maintenance and repairing work of hand pumps, its installation and construction of hand pump platform in core, railway line and pipeline villages of Godda and Sahebganj district. With this work, we are ensuring 100% functionality of the hand pumps and water availability in the area.

This year **2 hand pumps** were installed in **2 periphery villages** and **23 handpumps were repaired in 14 villages** benefiting more than **2000 rural population** of Godda district. The branding of hand pumps installed by Adani Foundation has also been done for its recognition among the community and better monitoring system.

Handpump Repairing						
S. N	Duration	Block	Village	Unit	Total HH	Beneficiary
1	May 24	Godda	Nayabad and Ranitikar	4	80	320
2	June 24	Godda and Podaiyahat	Patwa Samarua, Gangta Govindpur, Motia, Rangania and Sondiha	8	160	640
3	August 24	Godda and Podaiyahat	Baksara, Chhoti Baksara, Petbi, Petbi Santhali, Baliakitta, Mali Santhali and Basantpur village	11	220	880
Total				23	460	1840

Handpump Installation						
S. N	Duration	Block	Village	Unit	Total HH	Beneficiary
1	June 24	Godda	Ramnagar and Bohara	2	40	180
Total						180

Educational infrastructure Development

1. Support to Improve School Infrastructure of KGBV

Adani Foundation envision to ensure access and quality of education to the girls of disadvantaged groups of society, reduce gender disparities, promote gender equality, retention of girls in schools, arresting girls' dropout rate, improving girls' enrolment in KGBVs and other govt schools and enhance the academic performance of girl students.

From September 2024, AF is undertaking construction work of kitchen, toilet, dining shed, stage, sitting chair, ground, main gate and road for development of school infrastructure in **5 KGBVs**, which will create adequate learning ambience, and more than **2000 girl students** will be benefited.

S. No.	Ongoing RID Works at KGBVs
1	KGBV Podaiyahat
2	KGBV Basantrai
3	KGBV Mehrama
4	KGBV Boarijore
5	KGBV Pathargama

2. Construction of Drinking water shed at RMV Mission school, Deoghar: To Provide better village infrastructure in villages for development of village

Other Village development structures

- 1. Construction of 1 Guard Wall** near Pond at Mordiha, Thakurgangti
- 2. Construction of 1 Shraddhanjali Shed and Construction of Cemetery room** at Bohara Village, Godda
- 3. Construction of 1 shed** at Khatnai Border Naka check post, Godda
- 4. Construction of Selfie point at Godda children's Park at Godda-** To Provide better infrastructure facilities for development of Godda district.

	Adani Power (Jharkhand) Limited, Godda	Annexure - IX
	Expenditure for Environmental Protection & CSR (Period: April 2024 – September 2024)	

Expenditure for Environmental Protection & CSR		
(Fig. in Rs. Lacs)		
Sr. No.	Particular	Expenditure from (Apr-24 to Sep-24)
1.	Rural Development/CSR Activities (Education, community health, Sustainable Livelihood, community Infrastructure development etc.)	149.11
2.	Green belt Development (Horticulture)	91.78
3.	Legal, Consent fees	1.79
4.	Third party monitoring, Services and Equipment & Instruments maintenance, Communication cost.	20.058
5.	Cost involved in emission treatment and disposal (AHP, FGD, SCR, STP, ETP, CHP etc.)	993.99
Total		1256.73

Nilkanth Prajapati

From: R N Shukla
Sent: Monday, May 6, 2024 1:26 PM
To: ROR MoEFCC; amit.vashishtha@nic.in; mohit.saxena@gov.in; ranchijspcb@gmail.com;
Regional Office
Cc: Nilkanth Prajapati; Manish Kumar
Subject: Information towards the change in Coal Source by Adani Power Jharkhand Limited,
Jharkhand.
Attachments: AP(J)L_Change in Coal Source Letter_ April'2024 to June'2024.pdf

R/Sir's

Kindly find enclosed herewith pointwise information towards the change in Coal Source for the period of April'24 to June'2024 by Godda TP of Adani Power Jharkhand Ltd. Jharkhand, The APJL is proposed to use domestic & imported Coal through e-auction and hereby submits information as per para 7 of the MoEFCC OM dated 11.11.2020 & 06.12.2023.

Regards,
R N SHUKLA
079-25557022
09426600976



Power

Ref: APL/APJL/ENV/MoEFCC/542/24

Date: 25.04.2024

To,

The Director – IA, II (T)

Ministry of Environment, Forest, and Climate Change

Government of India, Indira Paryavaran Bhavan,

Vayu Wing, Jor Bagh Road,

New Delhi - 110 003

Sub.: Information towards the change in Coal Source by Adani Power Jharkhand Limited, Godda (APJL), Jharkhand.

- Ref.:**
1. Environmental Clearance vide File vide Letter no: J13012/01/2016-IA.I (T) dated: 31.08.2017 and amendments dated 03.09.2019 & 27.02.2020.
 2. MoEFCC Office Memorandum vide Letter No: J-13012/8/2009-IA.I (T) dated 11.11.2020
 3. MoEFCC Office Memorandum vide Letter No: J-13012/8/2009-IA.I (T) dated 06.12.2023

Dear Sir,

With reference to above subject, we are hereby submitting information towards change in Coal Source for the period of **April'2024 to June'2024** by Godda TPP of Adani Power Jharkhand Limited.

The EC vide reference 1 was issued to APJL on the basis of Imported Coal. APJL propose to use domestic Coal through e-auction and hereby submits information as per para 7 of the OM dated 11.11.2020.

As per the Office Memorandum, MoEFCC dated; 11.11.2020, all the Thermal Power Plants (including Captive Power Plants) having Environmental Clearance can **change the Coal Source** (from imported to domestic, domestic to domestic, and domestic to imported) including Lignite, directly through e-auctions/short term linkage/long term linkage/other linkage options of Ministry of Coal or any organization recognized for allotting coal linkages, **without seeking the amendment in Environmental Clearance.**

Adani Power (Jharkhand) Ltd
Adani Corporate House
Shantigram, S G Highway
Ahmedabad 382 421
Gujarat, India
CIN: U40100GJ2015PLC085448

Tel +91 79 2555 4444
Fax +91 79 2555 7177
www.adanipower.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India



Power

Pointwise information towards the change in Coal Source by Godda TPP of Adani Power Jharkhand Ltd presented below:

Sl. No.	Conditions	Information
1.	Details required regarding change in Source of Coal. <ul style="list-style-type: none"> o Location of the source, o Proposed quantity, o Distance from the power plant and o Mode of transportation o Quality (Ash, Sulphur, Moisture content and Calorific value) 	Details regarding change in Source of Coal are attached in Annexure-I
2.	The quantity of Coal transported from each source along with the mode of transportation shall be submitted as part of EC Compliance Report.	The quantity of coal transported from source along with the mode of transportation is mentioned in Annexure-I
3.	The applicable flue gas emissions standards for Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen and Mercury shall be complied in line with Ministry's Notification vide S.O. 3305(E) dated 7.12.2015 and subsequent emissions. A progress of implementation undertaking, and its compliance shall be submitted as part of Compliance Report.	High Efficiency Electrostatic Precipitators (ESP) has already installed to meet PM emission as per prescribed limit. FGD & SCR are installed to meet prescribed standard of SOx & NOx emission respectively. Emission monitoring results/report is being submitted along with half yearly EC compliance report to the concern authority on regular basis.
4	Ash content in the Coal and Coal transportation is governed by the Ministry's Notification vide S.O. 1561(E) dated 21.51.2020. As far as possible, Coal transportation shall be done by Rail/ Conveyor or other eco-friendly modes.	Ash content will be in compliance with Gazette Notification dated 21,05,2020. Coal transportation from the loading railway siding of mines to the Power Plant will be by Rail/Road.
5	Additional ash pond is also not allowed.	No additional ash pond required.

Power

Compliance of OM Dated 06.12.2023		
a.	from domestic to domestic,	Not Applicable
b.	from domestic to domestic (blended with imported coal up to 30% content of imported coal)	Not Applicable
c.	from imported to imported (blended with domestic coal up to 10% content of domestic coal)	Not Applicable
d.	from imported to domestic (where the GCV of the domestic coal is of the same grade as of imported coal).	Complied

We hope you will find the above information in order. We assured to the Ministry that Adani Power Jharkhand Ltd. is committed to pollution prevention and will always operate and maintain the plant as per applicable environmental standards.

Thanking You,

Yours faithfully

for **Adani Power Jharkhand Ltd.**



(R N Shukla)

Authorized Signatory

Encl: As above

CC Integrated Regional Office,
Ministry of Environment Forest & Climate Change
Second Floor, Headquarter- Jharkhand State
Housing Board, Ranchi, Jharkhand

The Member Secretary,
Jharkhand State Pollution Control Board
TA Division Building (Ground Floor, HEC
Dhurwa, Ranchi – 843 004 (JH)

The Regional Officer,
Jharkhand State Pollution Control Board
Dudhani, Dumka, Jharkhand – 814110

Annexure - I

Particulars	Coal Source: SECL, PKCL, Suliari, MCL, OPCL, NCL, CCL, ECL & Imported Coal
Tentative coal receipt Projections period	April'2024 to June'2024
Proposed Quantity (MT)	18,00,000
Grade	G14/G13/G12/G11/G10/G6/G5/G4/4200-4600 GAR
Mode of transportation	By Rail
Rail/Road Distance (Km)	479 - 1214
Calorific Value Range (GCV) (Eq basis) Kcal/Kg	4228 (Average)
ASH %	Range 31-39%
Sulphur %	0.5% - 1%
Moisture %	TM 10 - 15%
	IM 3 - 6%

Nilkanth Prajapati

From: Khushi Parekh
Sent: Wednesday, September 11, 2024 4:46 PM
To: Nilkanth Prajapati
Cc: Manish Kumar
Subject: FW: Information towards the change in Coal Source by Adani Power Jharkhand Limited, Jharkhand.
Attachments: AP(J)L_Change in Coal Source Letter_ July'2024 to September'2024.pdf

Thanks & Regards
Khushi Parekh

From: R N Shukla <RN.Shukla@adani.com>
Sent: Wednesday, July 17, 2024 6:15 PM
To: ROR MoEFCC <ro.ranchi-mef@gov.in>; dirind-moefcc@gov.in; ranchijspcb@gmail.com; Regional Office <jspcbdumka@gmail.com>
Cc: Nilkanth Prajapati <Nilkanths.Prajapati@adani.com>; Khushi Parekh <Khushi.Parekh@adani.com>
Subject: Information towards the change in Coal Source by Adani Power Jharkhand Limited, Jharkhand.

R/Sir's

Kindly find enclosed herewith pointwise information towards the change in Coal Source for the period of July'2024 to September'2024 by Godda TPP of Adani Power Jharkhand Ltd. Jharkhand, APJL is proposed to use domestic & imported Coal through e-auction and hereby submits information as per para 7 of the MoEFCC OM dated 11.11.2020 & 06.12.2023.

Regards,
R N SHUKLA
079-25557022
09426600976



Power

Ref: APL/APJL/ENV/MoEFCC/716/24

Date: 16.07.2024

To,

The Director – IA, II (T)

Ministry of Environment, Forest, and Climate Change

Government of India, Indira Paryavaran Bhavan,

Vayu Wing, Jor Bagh Road,

New Delhi - 110 003

Sub.: Information towards the change in Coal Source by Adani Power Jharkhand Limited, Godda (APJL), Jharkhand.

- Ref.:**
1. Environmental Clearance vide File vide Letter no: J13012/01/2016-IA.I (T) dated: 31.08.2017 and amendments dated 03.09.2019 & 27.02.2020.
 2. MoEFCC Office Memorandum vide Letter No: J-13012/8/2009-IA.I (T) dated 11.11.2020
 3. MoEFCC Office Memorandum vide Letter No: J-13012/8/2009-IA.I (T) dated 06.12.2023

Dear Sir,

With reference to above subject, we are hereby submitting information towards change in Coal Source for the period of **July'2024 to September'2024** by Godda TPP of Adani Power Jharkhand Limited.

The EC vide reference 1 was issued to APJL on the basis of Imported Coal. APJL propose to use domestic Coal through e-auction and hereby submits information as per para 7 of the OM dated 11.11.2020.

As per the Office Memorandum, MoEFCC dated; 11.11.2020, all the Thermal Power Plants (including Captive Power Plants) having Environmental Clearance can **change the Coal Source** (from imported to domestic, domestic to domestic, and domestic to imported) including Lignite, directly through e-auctions/short term linkage/long term linkage/other linkage options of Ministry of Coal or any organization recognized for allotting coal linkages, **without seeking the amendment in Environmental Clearance.**

Adani Power (Jharkhand) Ltd

Adani Corporate House
Shantigram, S G Highway
Ahmedabad 382 421

Gujarat, India

CIN: U40100GJ2015PLC085448

Tel +91 79 2555 4444

Fax +91 79 2555 7177

www.adanipower.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India



Power

Pointwise information towards the change in Coal Source by Godda TPP of Adani Power Jharkhand Ltd. presented below:

Sl. No.	Conditions	Information
1.	Details required regarding change in Source of Coal. <ul style="list-style-type: none">o Location of the source,o Proposed quantity,o Distance from the power plant ando Mode of transportationo Quality (Ash, Sulphur, Moisture content and Calorific value)	Details regarding change in Source of Coal are attached in Annexure-I
2.	The quantity of Coal transported from each source along with the mode of transportation shall be submitted as part of EC Compliance Report.	The quantity of coal transported from source along with the mode of transportation is mentioned in Annexure-I
3.	The applicable flue gas emissions standards for Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen and Mercury shall be complied in line with Ministry's Notification vide S.O. 3305(E) dated 7.12.2015 and subsequent emissions. A progress of implementation undertaking, and its compliance shall be submitted as part of Compliance Report.	High Efficiency Electrostatic Precipitators (ESP) has already installed to meet PM emission as per prescribed limit. FGD & SCR are installed to meet prescribed standard of SOx & NOx emission respectively. Emission monitoring results/report is being submitted along with half yearly EC compliance report to the concern authority on regular basis.
4	Ash content in the Coal and Coal transportation is governed by the Ministry's Notification vide S.O. 1561(E) dated 21.51.2020. As far as possible, Coal transportation shall be done by Rail/ Conveyor or other eco-friendly modes.	Ash content will be in compliance with Gazette Notification dated 21,05,2020. Coal transportation from the loading railway siding of mines to the Power Plant will be by Rail/Road.
5	Additional ash pond is also not allowed.	No additional ash pond required.

Adani Power (Jharkhand) Ltd
Adani Corporate House
Shantigram, S G Highway
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Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

Power

Compliance of OM Dated 06.12.2023		
a.	from domestic to domestic,	Not Applicable
b.	from domestic to domestic (blended with imported coal up to 30% content of imported coal)	Not Applicable
c.	from imported to imported (blended with domestic coal up to 10% content of domestic coal)	Not Applicable
d.	from imported to domestic (where the GCV of the domestic coal is of the same grade as of imported coal).	Complied

We hope you will find the above information in order. We assured to the Ministry that Adani Power Jharkhand Ltd. is committed to pollution prevention and will always operate and maintain the plant as per applicable environmental standards.

Thanking You,

Yours faithfully

for **Adani Power Jharkhand Ltd.**



(R N Shukla)

Authorized Signatory

Encl: As above

CC Integrated Regional Office,
Ministry of Environment Forest & Climate Change
Second Floor, Headquarter- Jharkhand State
Housing Board, Ranchi, Jharkhand

The Member Secretary,
Jharkhand State Pollution Control Board
TA Division Building (Ground Floor, HEC
Dhurwa, Ranchi – 843 004 (JH)

The Regional Officer,
Jharkhand State Pollution Control Board
Dudhani, Dumka, Jharkhand – 814110

Annexure - 1

Particulars	Coal Source: SECL, Suiyari, MCL, CCL, ECL & Imported Coal
Tentative coal receipt Projections period	July'2024 to September'2024
Proposed Quantity (MT)	13,80,000
Mode of transportation	By Rail
Rail/Road Distance (Km)	479- 1214
Calorific Value Range (GCV) (Eq basis) Kcal/Kg	Range: 3500 - 5800
ASH %	Range: 25% - 40%
Sulphur %	0.5%-1%
Moisture %	TM 10-15%
	IM 3-6%

भारत सरकार
परमाणु ऊर्जा विभाग
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड



Government of India
Department of Atomic Energy
Board of Radiation & Isotope Technology

प्रमाणपत्र ट्रैकिंग आईडी/Certificate Tracking ID : 2403863
जारी करने की तिथि/Date of Issue : 08-Nov-2024
प्रमाणपत्र क्रमांक/Certificate Sr.No.: ULR-TC1170324000003719F



TC-11703



Radioanalytical Laboratory

RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/916-927/MISC/681-692/24-25

To :
M/S. ADANI POWER (JHARKHAND) LIMITED
POWER PLANT - UNIT, VILLAGE - MOTIA AND MALI,
GAYEGHAT AND ADJACENT VILLAGES,
DIST.GODDA, JHARKHAND - 814 133
INDIA

This is regarding the sample of "COAL, BOTTOM ASH AND FLYASH" sent for radioactivity analysis vide your letter dt. nil which as per above letter is drawn from consignment with the following markings, as shown in italics:

NAME & ADDRESS OF THE CUSTOMER : *M/S. ADANI POWER (JHARKHAND) LIMITED
POWER PLANT - UNIT, VILLAGE - MOTIA AND MALI,
GAYEGHAT AND ADJACENT VILLAGES,
DIST. GODDA, JHARKHAND - 814133,
INDIA.*

SAMPLE DESCRIPTION : *COAL, BOTTOM ASH AND FLYASH*

DATE OF RECEIPT OF SAMPLE: 17.10.2024

DATE OF COMPLETION OF TEST: 07.11.2024

The samples were analysed for U-238, Th-232, Ra-226 and K-40 radioactivity content by HPGe gamma spectrometry and the values obtained are as follows:

Sr. No	SAMPLE DESCRIPTION	U-238 (Bq/Kg)	Th-232 (Bq/Kg)	Ra-226 (Bq/Kg)	K-40(Bq/Kg)
1	COAL	34.6 ± 2.5	39.4 ± 4.2	12.6 ± 2.3	99.2 ± 7.4
2	BOTTOM ASH	63.3 ± 4.2	126 ± 6.6	107 ± 11.4	184 ± 12.8
3	FLYASH	61.1 ± 3.3	186 ± 6.4	56.1 ± 6.5	546 ± 25.6

Opinion: The measurement values are below the clearance level for radionuclides of natural origin in bulk solid materials, as per AERB directive 01/2010 (table-3) dated 26/11/2010.

Note: (i) The report pertains to the given sample only. (ii) The sample will be retained in this laboratory for a period of 3 month from certificate date and thereafter it will be disposed off. (iii) This report shall not be reproduced except in full, without written approval of the laboratory. (iv) The sampling is not done by this laboratory.

Checked by:
GANPAT B NAKTI
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

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

1/1

The authenticity of this certificate is verifiable. Please scan the QR code using a QR scanning application on any mobile devices. Upon redirection you must enter the necessary information in landing page <https://eportal.britatom.gov.in>. We will then revert you back with a digital copy of the certificate in your verified e-mail ID. In accordance to IT Act 2000 (21 of 2000), this document is generated electronically through a validated s/w and need no physical/ digital signature(s).



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BRIT/ BARC Vashi Complex, Sector 20, Navi Mumbai - 400 703 (Maharashtra)

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Power

Ref : APL/APJL/Env/JSPCB/318/24
Date: 31.08.2024

To,
The Member Secretary,
Jharkhand State Pollution Control Board,
TA Division Building (Ground Floor), HEC,
Dhurwa Ranchi – 834 004 (JH)

Sub: Submission of Environment Statement (Form-V) for 1600 (2x800) MW Godda Thermal Power Plant at Motia, Patwa & Adjacent Villages, Godda, Jharkhand for FY 2023-24

Dear Sir,

With reference to above subject, kindly find enclosed herewith Environment Statement (Form-V) for 1600 (2x800) MW Godda Thermal Power Plant for the financial year 2023-24 duly filed in prescribed format.

Submitted for kind information and record please.

Thanking you,

Yours faithfully,
for **Adani Power (Jharkhand) Limited**

(R N Shukla)
Head Environment & Forest

Encl: As Above

CC:
The Regional Officer,
Jharkhand State Pollution Control Board,
Dudhani, Dumka, Jharkhand- 814110

ENVIRONMENTAL STATEMENT

For 2 x 800 MW Thermal Power Plant at Godda

For F. Y: 2023-24

SUBMITTED TO:

JHARKHAND STATE POLLUTION CONTROL BOARD



SUBMITTED BY:

adani

Power

Adani Power (Jharkhand) Limited

District Godda, Jharkhand

Environmental Statement Report for 2023-2024

FORM - V

ENVIRONMENTAL STATEMENT

Environmental Statement for the financial year ending with 31st March 2024

PART-A

General:

i. Name and address of the owner/ Occupier of the industry Operation or process.	Shri Jayadeb Nanda Chief Operating Officer Adani Power (Jharkhand) Ltd. Godda, Jharkhand
ii. Industry category	Thermal Power Plant
iii. Production capacity	Electricity Generation: 1600 MW (2 x 800 MW)
iv. Year of establishment	2023
v. Date of the last environmental Statement submitted.	25.09.2023

PART - B

WATER AND RAW MATERIAL CONSUMPTION

i. Water consumption in m³/day (Financial Year 2023-2024)

Process:	1429.6
Cooling:	40765.8
Domestic:	145.36
Service water:	4549.9

Name of the product	Process water consumption per unit of product Output	
	During the previous Financial Year 2022-2023	During the current Financial Year 2023-2024
Electricity Generation	NIL (m3/MWh)	2.12 (m3/MWh)

**Plant not operational in F.Y 22- 23. COD of Unit 1 & 2 (2 x 800MW) has been achieved on 00:00hrs on 6th April 2023 (midnight of 5th April 2023) and 23:30 Hrs on 25th June 2023 respectively.*

Environmental Statement Report for 2023-2024

ii. Raw material consumption:

Name of Raw Material#	Name of Product	Consumption of raw material	
		During the previous Financial Year 2022-2023	During the current Financial Year 2023-2024
Coal (MT)	Power Generation	NIL	4,287,372 MT
LDO (KL)		NIL	2209.91 KL

**Plant commissioned in April 2023*

PART-C

Pollution discharged to environment/unit of output:

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants Discharged (mass/volume)	Percentage of variation from Prescribed standards with reasons.
(a) Water	Adopted Zero Discharge Concepts: ETP and STP installed for treatment of trade and sewage effluent respectively and treated water is being reused suitably in green belt development, water sprinkling and FGD to conserve water resources. Zero Liquid Discharge (ZLD) maintained.		
(b) Air	PM	1.66 Ton/day	Nil All parameters are well within the stipulated norms.
	SO ₂	6.29 Ton/day	
	NO _x	6.31 Ton/day	

**Plant commissioned in April 2023*

Environmental Statement Report for 2023-2024

PART-D

HAZARDOUS WASTES:

(As specified under Hazardous and Other Wastes (Management & Transboundary Movements) Amended Rules, 2016)

Hazardous Wastes	Authorized Qty	Total Disposal Quantity (Kg)	
		During the previous financial year (2022-2023)	During the current financial year (2023-2024)
From Process:			
Used/Spent Oil	200 KL/Annum	Nil	3.5 KL
Discarded containers / barrels / liners contaminated with hazardous wastes/chemicals	25 T/Annum	Nil	0.33 T
Spent ion exchange resin containing toxic metal	100 KL/Annum	Nil	Nil
Chemical containing residue arising from decontamination	0.5 T/Annum	Nil	Nil

**Plant commissioned in April 2023*

PART. E

SOLID WASTE:

Solid Waste	Total Waste Generated	
	During the previous Financial Year 2022-2023	During the current Financial Year 2023-2024
Fly Ash*	Nil	936066
Bottom Ash *	Nil	234017
Domestic Solid Waste	449.8 kg /day	476.50 kg /day

**Plant not operational in F.Y 22- 23. COD of Unit 1 & 2 (2 x 800MW) has been achieved on 00:00hrs on 6th April 2023 (midnight of 5th April 2023) and 23:30 Hrs on 25th June 2023 respectively.*

Environmental Statement Report for 2023-2024

PART. F

Characteristics of Hazardous as well as Solid wastes and their method of disposal:

Description of Wastes	Characteristics	Quantity (23-24)	Method of disposal
Fly Ash	Nil	936066	Generated Fly ash is being utilized through Cement Plant & Brick Plants. Generated Bottom ash is being utilized in Road construction through NHAI
Bottom Ash	Nil	234017	
Domestic Solid Waste	Solid (Biodegradable and non-biodegradable waste)	173923 Kg	Disposed-off through secured Solid Waste Management Facility Set up at Godda District.

PART-G

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

- Adequate nos. of Dry fog systems have been provided in the CHP area and SILO systems to control fugitive dust emission and Pucca Roads also been developed within the plant premises for better vehicular movement and reduction of fugitive dust.
- Transportation of fly ash is either being done by tarpaulin covered Hywa, through bulkers or closed trucks to ensure spillage and leakage free ash transportation to the destination.
- Railway Wagon loading facility operational beneath Fly Ash Silo for fly ash transportation through Rail to Cement plants in environment sound manner.
- Along with highly efficient ESP, FGD and SCR implemented to reduce SO₂ & NO_x emission.

Environmental Statement Report for 2023-2024

- ETP and STP installed for treatment of trade and sewage effluent respectively and treated water is being reused suitably in green belt development, water sprinkling and FGD to conserve water resources.
- Zero waste-water discharge concept implemented.
- Drip irrigation system is being used for the lawn and green areas. Drip irrigation saves water use, compared with other watering techniques.

PART. H

(Additional measures/investment proposal for environmental protection including abatement of pollution)

- 3 Nos. of Continuous Ambient Air Quality Monitoring Station (CAAQMS), 1 No. Continuous Effluent and 2 Nos. of Emission Monitoring System has been installed.
- Solar based Weather Monitoring System installed to save electricity.
- D.G Sets are equipped with acoustic enclosure to reduce the noise & provided with stacks of adequate height and retrofitted filters to control the stack emission for abating air pollution.
- Energy efficient equipment's like CFL and LED lights have been installed and 04 nos. of solar streetlights have been installed in the power plant premises and more solar streetlights are proposed in remote areas of the plant for energy conservation.
- Green Belt – Well maintained plantation of local species and green area being developed in 82.77 Acre approx. to reduce noise pollution, air pollution and increasing the scenic beauty. More than 125,000 Trees in addition to shrubs and carpet lawns planted to enhance green cover. Photographs are attached as **Annexure- II**.

Environmental Statement Report for 2023-2024

PART. I

Any other particulars for improving the quality of the Environment.

We have made sincere efforts to maintain the environmental management system. Some highlights are mentioned below:

1. World Environment Day Celebrated on 5th June with mass plantation drive and various awareness campaigns.
2. Two (02) Nos of Rainwater Harvesting Pond with recharge structure installed for conservation of rainwater.
3. Disposal of solid waste (Biodegradable and Non-Biodegradable) being ensured at APJL. Collected solid waste is disposed-off through secured Waste management set up at Godda by third party. At the secured facility, wastes are segregated as per their nature and Biodegradable waste are converted into compost and non-biodegradable waste managed through recyclers.
4. Apart from Green Belt development within the plant, plantation also being carried along the roads outside the plant premises and in nearby villages through CSR activities.

Sign:



Name: R N Shukla

Designation: Head Environment & Forest
Adani Power (Jharkhand) Ltd.

Address: Adani Corporate House
Shantigram, Nr. Vaishnodevi Circle
SG Highway, Ahmedabad-382 421