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Ref: APL/APJL/EMD/EC/MoEFCC/227/11/24
Date- 27/11/2024

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 of Residential Township for Godda Thermal Power Plant at Motia & Patwa Villages. Godda Tehsil, Godda District in Jharkhand.

Ref: Env. Clearance Letter no: EC/SEIAA/2017-18/2070/2017/207, dated: 31.08.2017

Dear Sir,

With reference to above subject, please find enclosed herewith Six-monthly Environment Clearances (EC) compliance status report of **Residential Township** along with Environmental monitoring results like Ambient Air Quality, Noise level, Water Quality, green belt development & 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.

State Level Environment Impact Assessment Authority (SLEIAA)
Dhurwa Nursery Complex,
Ranchi – 834 004, Jharkhand

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

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

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SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE (EC)

FOR

Residential Township of

1600 (2x800) MW Godda Thermal Power Plant

At

Godda Taluka, District- Godda
Jharkhand

Submitted to:

Integrated Regional Office, Ranchi
Ministry of Environment, Forest and Climate Change
State Level Environment Impact Assessment Authority
Central Pollution Control Board, New Delhi &
Jharkhand State Pollution Control Board, Ranchi

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Submitted by:

Environment Management Department

Adani Power (Jharkhand) Limited

Motia, Patwa & adjacent village,
Godda Taluka, Godda District
Jharkhand

Period: April '2024 to September '2024

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Adani Power (Jharkhand) Limited, Godda

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 by Ministry of Environment & Forest and Jharkhand state Pollution Control Board 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 business

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.

Adani Power (Jharkhand) Ltd. has been granted Environment Clearances (EC) for Residential Complex from State Environment Impact Assessment Authority (SEIAA), Jharkhand vide letter no. EC/SEIAA/2017-18/2070/2017/207 dated 31.08.2018

Consent to Establish (CTE): Consent to Establish (CTE/NOC) issued from Residential Complex Jharkhand State Pollution Control Board vide letter no.: JSPCB/HO/RNC/CTE-3502450/2018/1117 dated: 01.11.2018

Consent to Operate (CTO): Consent to operate renewed by JSPCB for residential township vide letter no. JSPCB/HO/RNC/CTO-16595623/2023/1464, DATED 19.08.2023 valid till 30.09.2025.

Adani Power (Jharkhand) Limited, Godda

Compliance Status of Environmental Clearance

Residential Township for Godda Thermal Power Plant

Vide letter no: **EC/SEIAA/2017-18/2070/2017/207 dated 31.08.2018**

Sl. No.	Specific Conditions	Compliance Status
PART – A. SPECIFIC CONDITIONS		
1	This Environmental Clearance is valid subject to the following condition below- That this project has - a. Obtained all legal rights to operate at concerned place. b. Complied with all existing concerned laws of the land and c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	Agreed & being complied. Applicable legal rights obtained to operate residential township.
PART B - GENERAL CONDITIONS		
1. Pre- Construction Phase		
i.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.	Complied Required hutment, drinking water, medical facilities and other infrastructure were provided within the site during construction phase. Local manpower was preferred during Construction phase & Photographs of infrastructure facilities submitted with previous compliance report.
ii.	Provision of drinking water, wastewater disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.	Complied. Required basic amenities like Drinking water facility, Sanitation facility, cleaning of construction camps, Wastewater disposal, solid wastes management and primary health facilities was already ensured during project construction phase.
iii.	Adequate safety measures shall be adopted for the construction workers.	Complied. Fire & Safety Management Plan had already been submitted with compliance report of October 2018 to March 2019.
iv.	All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.	Complied. Before deploying construction manpower at site, proper health check-up, vertigo test (for height work) and induction program on safety carried out on regular basis.
v.	Fencing of the project boundary before start of construction activities.	Complied. Boundary wall of the project (residential Township) was completed before construction.

vi.	Use of energy efficient construction materials shall be ensured to achieve the desired thermal comfort.	Complied. LED lights, Fly Ash bricks and aerated concrete blocks are used in construction of Township. Photographs already submitted with previous compliance report.
vii.	Use of fly ash-based bricks/blocks/tiles/ products shall be explored to the maximum extent possible.	Complied. We have put our best efforts and used fly Ash based bricks, AAC blocks and pavers to the extent maximum for the construction of residential township. Photographs were submitted along with last compliance report.
viii.	Layout of proposed buildings and roads within premises etc. shall be made in such a way that it shall cause minimum disturbance to existing flora and fauna. Appropriate green belt shall develop to compensate the habitat loss of tree cutting (if any) from competent authority as per prevailing Act/Rules. The exotic species existing within the existing premises, if any, shall be protected. The greening programme shall include plantation of both exotic and indigenous species.	Complied. As such there was no wild species (flora and fauna) in the project however layout has been designed keeping greenbelt requirement to the maximum extent possible which includes both exotic and indigenous species. Green belt development completed, and details enclosed as **Annexure – III**.
ix.	Dedicated pedestrian paths shall be provided along the proposed Buildings. Appropriate access shall be provided for physically challenged people in the Pedestrian Paths.	Complied. Dedicated pedestrian paths provided along the buildings. Required access (elevator) provided for physically challenged peoples.
x.	The design of service roads and the entry and exit from the buildings shall conform to the norms & standards prescribed by the State Public Works Department.	Complied. Proper entry and exit from buildings are maintained.
xi.	The road system shall have the road cross sections for general traffic, exclusive ways for public mass transport (bus) system, pedestrian paths and ways, utility corridors and green strip.	Complied. Access Road constructed and parking space provided. Green strips developed. Please refer **Annexure- III** for green belt development.
xii.	Topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site. Balance top soil should be disposed at in planned manner for use elsewhere adequate erosion and sediment control measures to be adopted before ensuing construction activities.	Complied. Excavated topsoil has been utilized in surface levelling for internal road construction, landscaping and Horticulture activities.
xiii.	Prior permission should be obtained from the competent authority for demolition of the	Complied.

<table>
<tr><td></td><td>existing structure, if any. Waste recycling plans including top soil should be developed prior to beginning of demolition and construction activity. The plans should identify wastes to be generated and designate handling, recycling and disposal method to be followed.</td><td>This is greenfield / new construction project and had no any establishment present at site hence, there was no scope for any demolition.

Efforts were taken to reduce the quantity of the generated waste by judicious use of the resources while project construction.

Mechanical equipment had been engaged for handling and movement of materials to avoid human handling. This ensured that there were no spillages on the ground. AAC blocks (fly ash based) being used for construction which also generate meagre quantity of waste as compared to conventional red bricks.

Therefore, waste generated during construction phase was minimum and managed effectively by utilizing in surface levelling for internal road construction and Horticulture activities.</td></tr>
<tr><td>xiv.</td><td>Disposal of muck including excavated material during construction phase should not create any adverse effects in the neighbourhood and the same shall be disposed of taking the necessary precautions for general safety and health aspects.</td><td>Suitable measures were ensured to manage the muck / excavated material. Excavated materials utilized in filling & surface levelling for internal road construction and Horticulture activities.

Precautionary actions such as pest control are taken care for health and safety aspects. Time to time sanitization and vaccinations (with booster dose) also ensured to combat COVID – 19 pandemics during COVID.</td></tr>
<tr><td>xv.</td><td>The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which should in the vernacular language, informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority, Jharkhand and the same matter also be sent to Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi.

The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Ranchi.</td><td>Complied.

EC advertisement has already been circulated in below mentioned Newspapers

<table><tr><th>Name of Newspaper</th><th>Dated</th><th>Pg. no.</th></tr><tr><td>Dainik Jagaran Godda, Bhagalpur</td><td>11-9-2018</td><td>04</td></tr><tr><td>The Times of India, Ranchi</td><td>11-9-2018</td><td>03</td></tr><tr><td>Hindustan Deoghar</td><td>11-9-2018</td><td>05</td></tr><tr><td>Prabhat Khabar Deoghar</td><td>11-9-2018</td><td>05</td></tr></table>
Copy of EC advertisement has already submitted along with compliance report for the period of October 2018 to March 2019.</td></tr>
</table>

xvi.	Risk assessment study along with Disaster Management Plan (DMP) shall be prepared. The mitigate measures for disaster prevention and control shall be prepared and get approval from competent authority. All other statutory clearances/licenses/permissions from concerned State Governments Departments, Boards and Corporations shall be obtained for directions issued by Central Government/State Government, Central Pollution Control Board/Jharkhand State Pollution Control Board.	Necessary NOC, clearances & permissions has already been taken. Fire & Safety Plan & Disaster Management Plan (DMP) has already been submitted along with compliance report for the period of October 2018 to March 2019.
xvii.	Baseline Environmental Condition of Project area i.e. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples should be conducted and report should be submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution Control Board (JSPCB), Ranchi prior to start of construction activities.	Complied. Baseline Environmental Monitoring Report as per NAAQS 2009, Ambient Noise Level & Analysis of Ground/surface Water Samples are being submitted to SEIAA, Jharkhand. Monthly Monitoring report also being submitted Regularly to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution Control Board (JSPCB), Ranchi and JSPCB, Dumka. Environmental Monitoring Report is enclosed as **Annexure -I**
II. Construction Phase		
i.	It shall be ensured that the construction debris is properly stored on the site prior to disposal. Such requirements shall be made part of the contractor agreement.	Complied. Excavated material has been utilized in landscaping & surface levelling for internal road construction and Horticulture activities.
ii.	All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site. Proper erosion control and sediment control measures shall be adopted.	Complied. Excavated topsoil utilized suitably at site for development of horticulture/ landscape & road construction.
iii.	Earth material generated from excavation shall be reused to the maximum possible extent as filling material during site development. The construction debris and surplus excavated material shall be disposed off by mechanical transport through the Ranchi Municipal Corporation.	Complied. Excavated soil has been reused suitably within project premises in filling and surface levelling for internal road construction and Horticulture activities.
iv.	Disposal of muck, including excavated material during construction phase, shall not create any adverse effects on the neighbouring communities and shall be disposed off taking the necessary precautions for general safety and health aspects.	Complied. Suitable measures are ensured to manage the muck / excavated material. Necessary precautionary actions are already taken to take care of health and safety aspects and no

		adverse effect on neighbouring community was observed during construction phase.
v.	Low Sulphur diesel generator sets should be used during construction phase. Diesel generator sets during construction phase shall have acoustic enclosures and shall conform to Environment (Protection) Rules, 1986 prescribed for noise emission standards.	Complied during construction stage.
vi.	All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.	Complied. PUC records of deployed vehicles were ensured while project construction phase.
vii.	Ambient noise levels shall confirm to the standards prescribed by MoEF&CC, Govt. of India.	Monitoring of noise level being done and results are well within the stipulated norms. Environmental Monitoring report is enclosed as **Annexure -I**
viii.	The protective equipment such as nose mask, earplugs etc. shall be provided to construction personnel exposed to high noise levels.	Complied. Safety PPEs/ gadgets were provided during construction stage.
ix.	Construction spoils, including bituminous material and other hazardous materials including oil from construction equipment must not be allowed to contaminate soil/ground water. The dumpsites for such material must be secured so that they shall not leach into the ground water.	Complied. Excavated Soil and Construction debris generated from construction activities was stored within the project site. It was ensured that construction spoils, including bituminous material and other hazardous materials including oil etc. doesn't contaminate watercourses. The dumpsites for such material are secured so that it will not leaching into the ground water. The storage Diesel drums were kept on the Secondary Containments to prevent contamination of land and protect natural resources.
x.	Proper and prior planning, sequencing and scheduling of all major construction activities shall be done. Construction material shall be stored in covered sheds. Truck carrying soil, sand and other construction materials shall be duly covered to prevent spilling and dust emission. Adequate dust suppression measures shall be undertaken to control fugitive dust	Complied. Construction materials were stored in covered shed and transportation of materials by covered vehicles ensured during construction stage. Pucca road and pavement is constructed to prevent fugitive dust emission.

	emission. Regular water sprinkling for dust suppression shall be ensured.	Water sprinkling for dust suppression was done regularly during construction stage.
xi.	Use of Ready-Mix concrete is recommended for the project.	Complied. Ready-Mix concretes had been used for concreting during construction phase.
xii.	Accumulation/stagnation of water shall be avoided ensuring vector control.	Complied. Necessary drainage is constructed to avoid accumulation / stagnation of water.
xiii.	Regular supervision of the above and other measures shall be in place all through the construction phase so as to avoid disturbance to the surroundings.	Complied. Regular supervision/monitoring already ensured to avoid any disturbance to the surroundings during construction phase.
xiv.	Water during construction phase should be preferred from Municipal supply.	Complied. Water Resource Department, Govt. of Jharkhand has granted construction water allocation from Liljhi River during construction phase.
xv.	All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied.	Noted & Compliance assured.
xvi.	Unskilled construction labourers shall be recruited from the local areas.	Complied during construction phase.
xvii.	Provisions shall be made for the integration of solar water heating system.	Noted & Being implemented Provisions has been kept for solar water heating system.
xviii.	Provision of vermin-composting for the biodegradable solid wastes generated from the proposed extension buildings as well as the large amount of biomass that shall be available from the tree plantation shall be made.	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. So far, more than 300 new farmers have been given training on Vermicomposting this year. Detailed CSR report is enclosed **as Annexure- III.**
xix.	Monitoring of ground water table and quality once in three months shall be carried out.	Being complied.

	Construction of tube wells, bore wells shall be strictly regulated.	Ground water monitoring is being carried out by NABL accredited third party consultant, monitoring report is enclosed as **Annexure-I**
xx.	Permeable (porous) paving in the parking areas, and walkways should be used to control surface runoff by allowing storm water to infiltrate the soil and return to ground water.	Complied. Permeable (porous) Paving in parking areas has been implemented.
xxi.	All intersections shall be designed and developed as roundabouts.	Complied. Main intersection of township has been designed and developed as roundabout with Landscaping done to enhance the site ambience.
xxii.	All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. shall be laid below ground level. Ducts shall be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.	Complied. Utility lines laid below ground level.
xxiii.	The road drainage shall be designed to enable quick runoff of surface water and prevent water logging.	Complied. Road drainage has been completed for quick runoff to prevent water logging.
xxiv.	Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forest Government of India shall be adopted.	Complied Adequate parking space provision has been provided in the Residential Township.
xxv.	Rest room facilities shall be provided for service population.	Complied. Adequate number of rest rooms are constructed for service population.
xxvi.	Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, should be conducted and report should be submitted on monthly basis to SEIAA, Jharkhand & Jharkhand State Pollution Control Board (J.S .P.C.B.), Ranchi.	Being Complied. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground/surface Water Samples & DG Stack monitoring being carried out by NABL accredited third party consultant. Environmental monitoring reports being submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution Control Board (JSPCB), Ranchi and JSPCB, Dumka on monthly basis as well as with six monthly Environment Clearance compliance report.

		Environmental Monitoring Report enclosed as **Annexure –I**
	Water Body Conservation	
i.	Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.	There is no water body within premises of residential complex.
ii.	Improvement or rehabilitation of existing nallas (if any) shall be carried out without disturbing the ecological habitat.	There is no nalla within residential complex premises.
III. Post Construction/Operation Phase		
i.	The environmental safeguards and mitigation measures contained in the application shall be implemented in letter and spirit.	Complied. • Solid waste handling facilities such as waste bins (Biodegradable and No-biodegradable) across the buildings are provided. • STP is operational to treat domestic sewage and treated wate being utilized for Green Belt Development. • Roads, Drains & Rainwater Harvesting ponds are constructed. • Green Belt development and being maintained. • Drip irrigation system established to save water.
ii.	All the conditions, liabilities and legal provisions contained in the Environmental Clearance shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity. Ground water shall not be abstracted without prior permission from the competent authority.	Water requirement of residential township being met from the water treatment plant of Thermal Power Plant.
iii.	The storm water management plan shall be implemented in such a manner that the storm water is discharged though an existing dedicated Storm Water Outfall only.	Complied. Adequate storm water drainage established in residential township.
iv.	The height of the stack of the DG sets should be as per norms of Central Pollution Control Board (C.P.C.B.), New Delhi.	Complied. DG set stack height maintained as per the norms. photograph evidence already submitted with previous compliance report.

v.	Medical (First-Aid) facility must be provided for visitors & employees. Para-medical staff should be attached as Medical facility provider.	Complied. Medical (First-Aid) facility available for visitors and employees. Authorization of BMW (Non-bedded) issued from JSPCB vide letter no. JSPCB/RO/DMK/BMW-9456865/2021/8 dated 05.03.2021.
vi.	Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs and herbs. Preferential plantation of flowering trees with less timber and fruits value shall be carried out.	Complied. Plantation and green carpeting developed in 33% area. Indigenous, fast growing species with good aesthetic look used for plantation. Apart from above, we are also doing plantation in surrounding area (outside township) in terms of Avenue Plantation and distribution of saplings to villagers, which will help to enhance green cover in the surroundings. Green Belt photographs with species details are enclosed as **Annexure – III.**
vii.	Two chambered container or two separate containers (one for recyclable wastes and other for all organic and compostable wastes) shall be placed at appropriate distance on the roadsides and inside the building. Covered dustbins/garbage collector in convenient places to collect the Municipal solid wastes shall be provided.	Complied. Separate covered dust bins for Bio-degradable and non-biodegradable waste provided in proximate to each building and being disposed-off as per MSW – Rule 2016. photograph evidence already submitted with previous compliance report.
viii.	Proper composting / vermi-composting of municipal solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).	Compliance assured. Separate covered dust bins for Bio-degradable and non-biodegradable waste provided in proximate to each building and being disposed-off as per MSW – Rule 2016.
ix.	The use of hand gloves, shoes and safety dress for all waste collectors and sorters shall be enforced	Complied. Use of mask, hand gloves, shoes and safety dress (reflecting jackets) by waste collectors are being ensured.
IV. Entire Life of the Project		
i.	The project proponent should implement Environmental Monitoring Programme as per details submitted in EMP.	Being complied. Environmental monitoring reports being submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand

		and Jharkhand State Pollution Control Board (JSPCB), Ranchi and Dumka on monthly basis.
ii.	No expansion/modification activity should be carried out obtaining prior Environmental Clearance as per EIA Notification 2006.	Noted & Agreed Clearance & permission will be taken from respective authority before making any changes or modification/expansion in future, if required.
iii.	Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stock Emissions & Testing of emission from DG sets should be conducted and report should be submitted on monthly basis to SEIAA, Jharkhand & JSPCB, Ranchi.	Being Complied. Monitoring of AAQM as per NAAQS 2009 & Monitoring of Ambient Noise Level, Analysis of Ground/surface Water Samples & DG set Stack monitoring are being carried out by third party NABL approved consultant. Environmental monitoring reports being submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution Control Board (JSPCB), Ranchi and Dumka on monthly basis. Environmental Monitoring reports enclosed as **Annexure-I**
PART C- SPECIFIC CONDITIONS		
I. Pre-Construction Phase		
i.	Project Proponent should obtain prior consent to establish (NOC) under Section 25 & 26 of the Water (Prevention & Control of Pollution) Act' 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act' 1981 from State Pollution Control Board before start of construction activities.	Complied. JSPCB has granted Consent to Establish/NOC vide letter No. JSPCB/HO/RNC/CTE-3502450/ 2018/ 1117 dated- 01.11.2018. Consent to operate renewed by JSPCB for residential township vide letter no. JSPCB/HO/RNC/CTO-16595623/2023/1464 DATED 19.08.2023 valid till 30.09.2025.
ii.	It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost). The security deposit is imposed to ensure the proper performance/ implementation of the committed CSR activities.	Being complied. CSR progress & implementation Report along with CSR activities is enclosed as **Annexure – II.**

iii.	Project Proponent should obtain prior permission for ground water withdrawal from CCWA/CGWB if applicable.	Noted. Water requirement of residential township being met from the water treatment plant of Thermal Power Plant. Prior permission for ground water withdrawal from CCWA/CGWB will be taken if ground water required for domestic purpose.
iv.	Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.	Buildings are designed as per seismic regulations.
v.	Use of energy efficient construction materials to achieve the desired thermal comfort shall be incorporated. The desired level of roof assembling "U" factor and insulation "R" value must be achieved. Roof assembling "U" factor for the top roof shall not exceed 0.4 watt/sq.m./degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.	Complied. Buildings are designed as per National Building code 2005 provision for thermal comfort and roof insulation done for better energy efficiency.
vi.	Street/Corridor lighting shall be energy efficient. The High Pressure Sodium Vapour (HPSV) Lamps & Compact Fluorescent Lamps (CFL) along Building premises shall be provided. High intensity, high mast lights to be installed at few strategic points. Solar energy may be used for outdoor lighting.	Complied. In place of HPSV & CFL, latest LED lightings are used in building premises which will reduce power load and conserve energy.
vii.	Reduction of hard paving-onsite (Open area surrounding all buildings) and/or provision of shades on hard paved surfaces to minimize heat island effect and imperviousness of the site should be undertaken.	Complied.
viii.	All proposed air/conditioned buildings should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency.	Being followed. Thermal comfort of building and energy efficient lighting and electrical system being ensured as per ECBC regulations.
ix.	Monitoring of AAQ as per NAAQs 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets should be conducted, and reports should be submitted on monthly basis to State Pollution Control Board (SPCB).	Being complied Monthly Environmental Monitoring report is being submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution

		Control Board (JSPCB), Ranchi and JSPCB, Dumka. Monitoring reports are enclosed as **Annexure –I**
x.	Project proponent shall install Wind Augmentation and Air Purifying Unit (4 Units at one location in Godda) on Pilot basis to deal with particulate matter pollution.	At present water sprinkling and sweeping of pucca roads is being done to control dust and particulate matter at site. Options shall be explored for Wind Augmentation and Air Purifying Units on pilot basis to deal with particulate matter, if required.
II. Construction Phase		
i.	All the conditions laid down in NOC issued by SPCB should be strictly complied with during entire construction cycle of the Project.	NOC/CTE/CTO Conditions are being Complied. Consent to operate renewed by JSPCB for residential township vide letter no. JSPCB/HO/RNC/CTO-16595623/2023/1464 DATED 19.08.2023 valid till 30.09.2025.
ii.	The water treatment plant shall be provided for treatment of water. The treatment shall include screening, sedimentation, filtration and disinfections. Appropriate arrangement shall be made for treatment and reuse of backwash water of filtration plant.	Sewage treatment plant has been installed which includes screening, sedimentation, filtration and disinfection. Treated water from STP being used for Horticulture /plantation through automated irrigation system.
iii.	Project proponent shall 'provide adequate measuring arrangement at the inlet point of water uptake and at the discharge point for the measurement of water utilized in different categories and monitoring daily water consumption.	Being complied. Monitoring of daily water (domestic) consumption ensured.
iv.	Regular water sprinkling shall be done all around the site to minimize fugitive dust emission during construction activities.	Complied during construction phase. Water sprinkling was provided to all around the site to minimize fugitive dust emission during construction phase.
v.	Rain water harvesting structures should be provided as per submitted Plan.	Complied. Rainwater harvesting (RWH) system for roof run-off and surface run-off has been designed and implemented. For roof top rainwater collection, all the water from roofs are collected through roof water drainage pipe and discharge in to storm water drain. The storm water drainage systems are connected to Rain- Water

		Harvesting ponds for reuse. Photograph evidence already submitted with previous compliance report.
III. Post Construction/Operation Phase		
i.	Project Proponent should obtain prior consent to operate under Air Act, 1981 & Water Act, 1974 from State Pollution Control Board before commissioning of the project.	Complied. Consent to operate obtained from JSPCB before commissioning of residential township vide letter no. JSPCB/HO/ RNC/CTO-8554195/2020/1597 DATED 29.09.2020. The same is renewed by JSPCB vide letter no. JSPCB/HO/RNC/CTO-16595623/2023/1464 DATED 19.08.2023 valid till 30.09.2025.
ii.	Water saving practices such as usage of water saving devices/fixtures, low flushing systems, sensor based fixtures, auto control walls, pressure reducing devices etc. should be adopted.	Noted. As a water saving practices, we have opted for water saving fixtures and low flushing system.
iii.	Water budget should be adopted as per the plan submitted in the supplementary Form-I A & EMP.	Noted and agreed.
iv.	All the generated domestic effluent should be sent to ETP/STP for treatment & further recycling & reuse.	Being Complied. Sewage Treatment Plant established to treat domestic wastewater and treated water is being utilized for plantation/green belt development.
v.	Treated water recovered from STP would be used for flushing the toilets, gardening purpose, make up water in air conditioning systems, etc. As proposed, Fluidized Bed Reactor (FBR) type sewage treatment plant should be installed. The Sewage Treatment Plant shall be ensured before the completion of Building Complex.	Complied. FBR type STP established in township. Dual Flushing system / plumbing is provided. Treated water from STP being used in Gardening/plantation.
vi.	Rainwater from open spaces shall be collected and reused for landscaping and other purposes. Rooftop rainwater harvesting shall be adopted for the proposed Buildings. Every building of proposed extension project shall have rainwater-harvesting facilities. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter and oil and grease.	RWH plan is implemented, and provision kept for collected rainwater to reuse for landscaping.
vii.	Municipal solid wastes generated in the proposed extension buildings shall be managed and handled in accordance with the compliance criteria and procedure laid down in Schedule- II	Being complied. Separate covered dust bins for Bio-degradable and non-biodegradable waste

	of the Municipal Wastes (Management and handling) Rules, 2000 (As amended).	placed in proximate to each building and being disposed-off as per Municipal Wastes (Management and handling) Rules.
viii.	The standard for composting & treated leachates as mentioned in Schedule-IV of the Municipal Wastes (Management and handling) Rules, 2000 (As amended) shall be followed.	Noted We have tied up with private participation who is segregating and recycling all the recyclable waste such as newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. and dispose-off through solid waste management facility developed at Godda.
ix.	All hazardous wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Hazardous Wastes (Management and Handling) Rules, 1989 (As amended).	Not applicable under Schedule – I of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and as amended.
x.	Recycling of all recyclable wastes such as newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. shall be encouraged through private participation. Project proponent shall take appropriate action to ensure minimum utilization of plastic carry bags and plastic small containers etc. within the proposed buildings shall be ensured.	Noted & being complied. We have tied up with private participation who is segregating and recycling all the recyclable waste such as newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. and dispose off through solid waste management facility developed at Godda.
xi.	Project proponent shall operate and maintain the sewage collection/conveyance system, sewage pumping system and sewage treatment system regularly to ensure the treated water quality within the standards prescribed by Ministry of Environment and Forests, Government of India.	Noted and being followed. Treated water quality is well within the norms. Analysis report enclosed as **Annexure – I.**
xii.	Properly treated and disinfected (Ultra-Violet Treatment) sewage shall be utilized in flushing the toilets, gardening purpose, make up water in air conditioning systems etc.	Being complied Properly treated and disinfected (Hypochlorite Treatment) sewage being utilized in gardening.
xiii.	Non-mixing of faecal matter with the municipal solid wastes shall be strictly ensured.	Noted & complied.
xiv.	Non-mixing of sewage/sludge with rainwater shall be strictly ensured.	Complied. Separate closed sewerage system established, and separate storm water drain is established.
xv.	Noise barriers shall be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. D.G.	Being complied.

	sets shall be provided with necessary acoustic enclosures as per Central Pollution Control Board norms.	We ensure that noise level do not exceed the prescribed standards. Also, DG set provided only for emergency power back up purpose during blackouts and the chances of same is very remote.
xvi.	Back up supply shall be based on natural Gas/cleaner fuel subject to their availability.	Noted.
xvii.	The project proponent shall resort to solar energy at least for street lighting and water heating for Proposed Building Complex, gardens/park areas.	Noted. 06 nos. of Solar Street Lights are Installed, and photographs submitted with previous compliance report.
xviii.	During maintenance, energy efficient electric light fittings & lamps- low power ballasts, low consumption high power luminaries, lux level limiters & timers for street lighting shall be provided.	Complied. Energy efficient equipment's/light (LED) installed. LDR/Timer are provided in streetlights
xix.	A report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, "R" and "U" factors etc.	Buildings are designed as per National Building code 2005 provision for thermal comfort and roof insulation done with provision for better energy efficiency.
xx.	Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets & Testing of Untreated & treated effluent samples of STPs should be conducted and report should be submitted on monthly basis to SPCB.	Being complied. Monitoring of AAQM as per NAAQS 2009 & Monitoring of Ambient Noise Level, Analysis of Ground/surface Water Samples are being carried out by third party NABL approved consultant. Environmental monitoring reports being submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution Control Board (JSPCB), Ranchi and JSPCB, Dumka on monthly basis. DG set is only for emergency back up and DG stack monitoring report is enclosed as **Annexure –I**
IV. Entire Life of the Project		
i.	All the conditions laid down in NOC & consent to operate issued by SPCB should be strictly complied with during entire life cycle of the project.	Noted & Compliance assured.
ii.	Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG Sets & Testing of Untreated & treated effluent samples of STPs should be	Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, STP water analysis being done and report submitted to SEIAA

	conducted and reports should be submitted 'on monthly basis to SPCB.	Jharkhand and JSPCB Ranchi and Dumka on monthly basis. DG set provided only for emergency power backup purpose during blackouts and the chances are very remote. However, DG set stack emission monitoring also done, and report included under environmental monitoring reports. Environmental Monitoring reports are enclosed as **Annexure –I**
iii.	The project authorities shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPC rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Treated STP water is well within the stipulated norms. DG set provided only for emergency power backup purpose during blackouts and the chances are very remote. However, DG set stack emission monitoring also done, and report included under environmental monitoring reports.
iv.	The overall noise levels in and around the project area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989 viz. 75 DBA (day time) and 70 DBA (night time).	Being complied. Noise level being maintained well within the stipulated norms prescribed under EPA Rules 1989 viz. 75 DBA (daytime) and 70 DBA (nighttime). Monitoring reports enclosed as **Annexure – I**
v.	The project authorities shall provide requisite funds for both recurring and nonrecurring expenditure to implement the conditions stipulated by SEIAA, Jharkhand with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Noted & Compliance assured. Separate fund has been earmarked for environment management.
vi.	Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs. 15% of the total plot area shall be used for plantations.	Complied. 33% area covered under Green Zone. Green belt / plantation developed along with project construction & during operation and efforts are made to develop more greenery in & around the residential township with survival rate of more than 80%. Apart from above, we are also doing plantation in surrounding area in terms of Avenue Plantation and distribution of saplings to villagers, which will help to enhance green cover in the surroundings.

		Green belt details are enclosed as **Annexure -III.**
vii.	Whenever developer will hand over building to the society, the developer must mention in the agreement or sale deed that 15% green belt area of total plot area should mentioned & Environmental Conditions given by SEIAA, Jharkhand has to be complied.	Complied. Green belt developed in 33% of total plot area. Green belt details are enclosed as **Annexure -III.**
viii.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied.
ix.	The funds earmarked for the environmental protection measures shall not be diverted for other purposes.	Noted and Being complied.
x.	In case of any changes in the scope of the project, the project shall require a fresh appraisal by the SEAC/SEIAA.	Noted & agreed
xi.	The SEAC/SEIAA, Jharkhand will have the right to amend the above conditions and add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted & agreed
xii.	It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF&CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi.	Being complied. Last six-monthly compliance report for the period of October'2023 – March20'24 submitted vide. Letter no. APL/APJL/EMD/EC/ MoEFCC/286/05/24 dated 24.05.2024.
xiii.	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal (NGT), if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted.

*****

Annexure I

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.

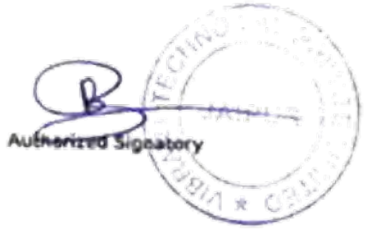
However, the prerequisite for sustainable development is judicious planning of environmental status, likely impacts of the approach adopted on the environment including inhabitants of the locality, availability of the eco-friendly technology, emerging waste disposal and waste utilization processes, techniques 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



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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

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 & interpretated 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.

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 CaCO3	IS: 3025 (P-21): 2009, RA: 2019
Calcium as Ca	IS: 3025 (P-40): 1991, RA: 2019
Alkalinity as CaCO3	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 SO4	IS: 3025 (P-24): 1986 Sec.1 RA: 2022
Fluoride as F	APHA (23rd Edition), 4500FD:2017
Nitrate as NO3	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

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

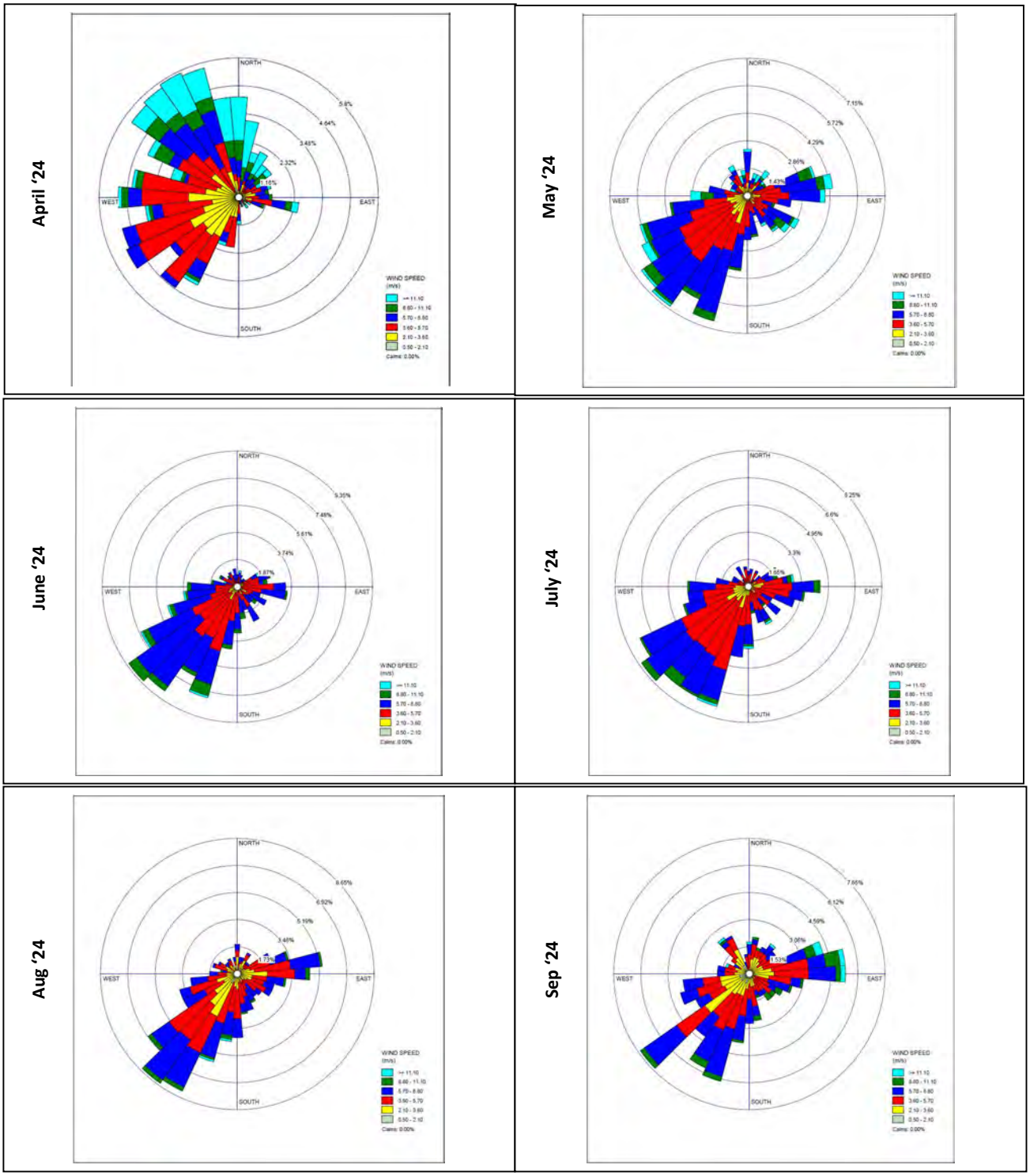
Weather monitoring would help in keeping track of different parameters like temperature, humidity, rainfall, wind direction, wind speed & barometric pressure. Real time meteorological data is used to support a number of programs including public aviation, agricultural activity, disaster management etc.

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, windspeed, barometric pressure, rainfall etc. are presented below.

Meteorological Data (Apr-2024 to Sep.-2024)

Month		Apr'22	May'22	Jun'22	Jul'22	Aug'22	Sep'22
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 PM_{10}, $PM_{2.5}$, 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

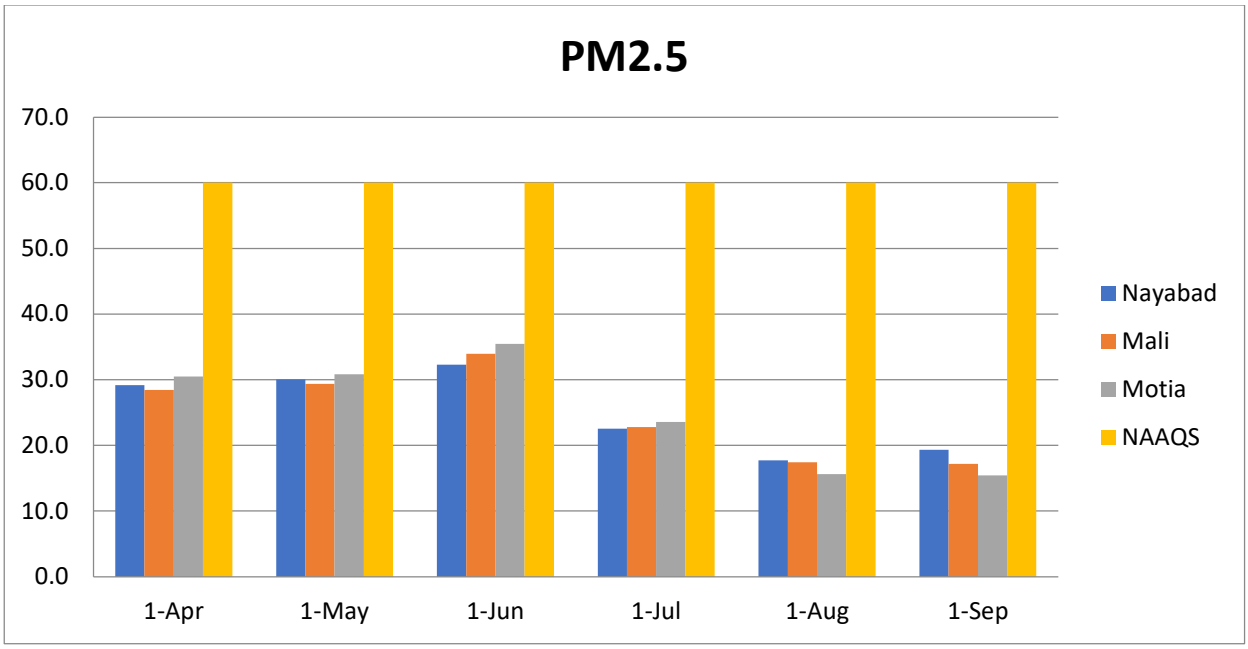
S. No.	Parameters	Sampling Duration (Hr.)
1.	Particulate Matter (PM_{10})	24
2.	Particulate Matter ($PM_{2.5}$)	24
3.	Oxides of Sulphur (SO_X)	24
4.	Oxides of Nitrogen (NO_X)	24
5.	Mercury	24

7.4 AAQM METHODOLOGY

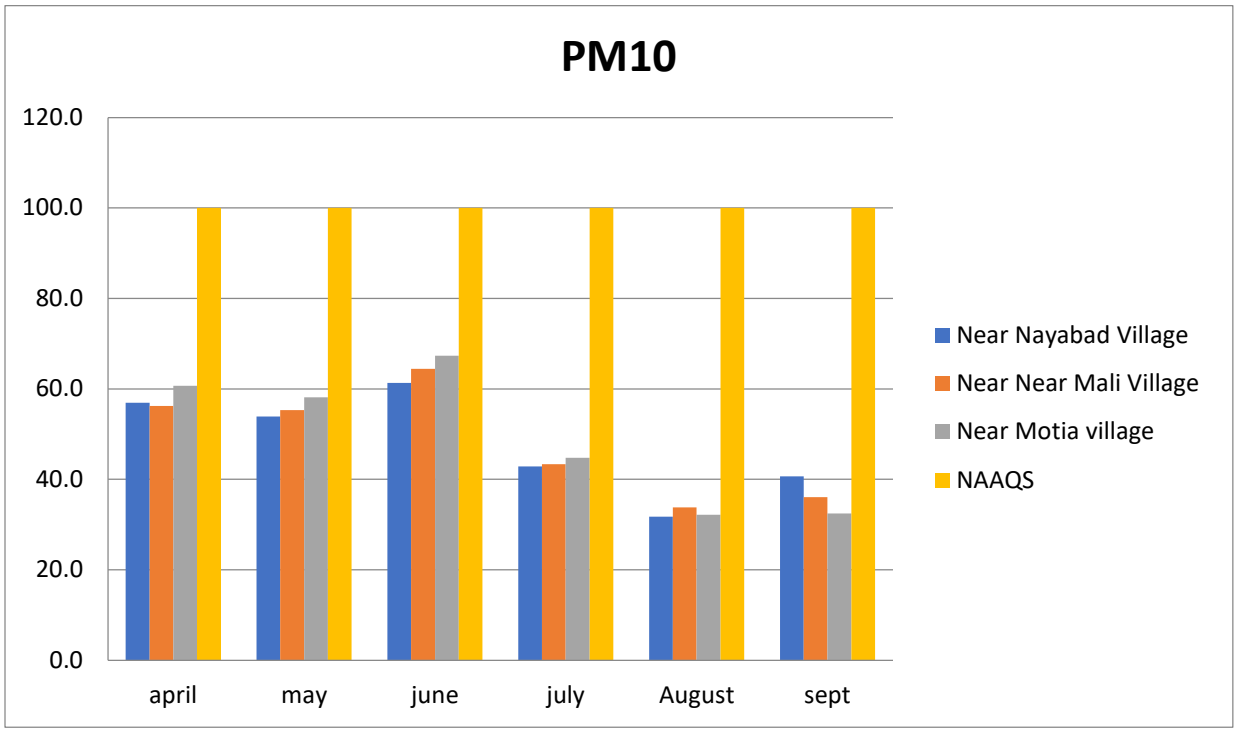
PARAMETERS	METHODOLOGY/PRINCIPLE
Particulate Matter (PM_{10})	Air is drawn through a size-selective inlet and through a 20.3 X 25.4 cm (8 X 10 in) filter at a flow rate, which is typically 1132 L/min. Particles with aerodynamic diameter less than the cut-point of the inlet are collected, by the filter. 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

	controller coupled to a microprocessor into specially designed inertial particle-size separator (i.e., cyclones or impactors) where the suspended particulate matter in the PM2.s 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 $PM_{2.5}$ S0ze ranges divided by the actual volume of air sampled, and is expressed in ug/m°. The microprocessor reads averages and stores five-minute averages of ambient temperature, ambient pressure, filter temperature and volumetric flow rate.
Sulphur Dioxide (SO_2)	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.
Nitrogen Dioxide (NO_2)	Ambient nitrogen dioxide (NO_2) is collected by bubbling air through a solution of sodium hydroxide and sodium Arsenite. The concentration of nitrite ion (NO) 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.

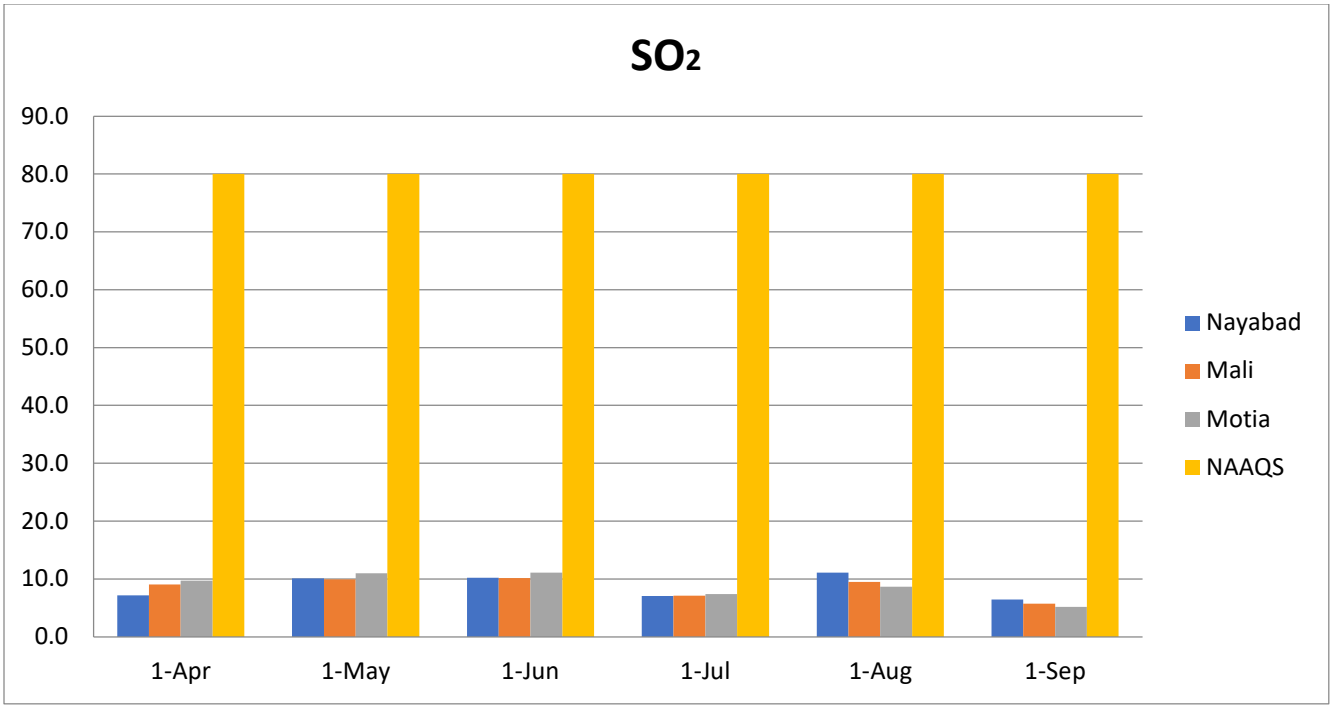
7.5 Graphical Representation



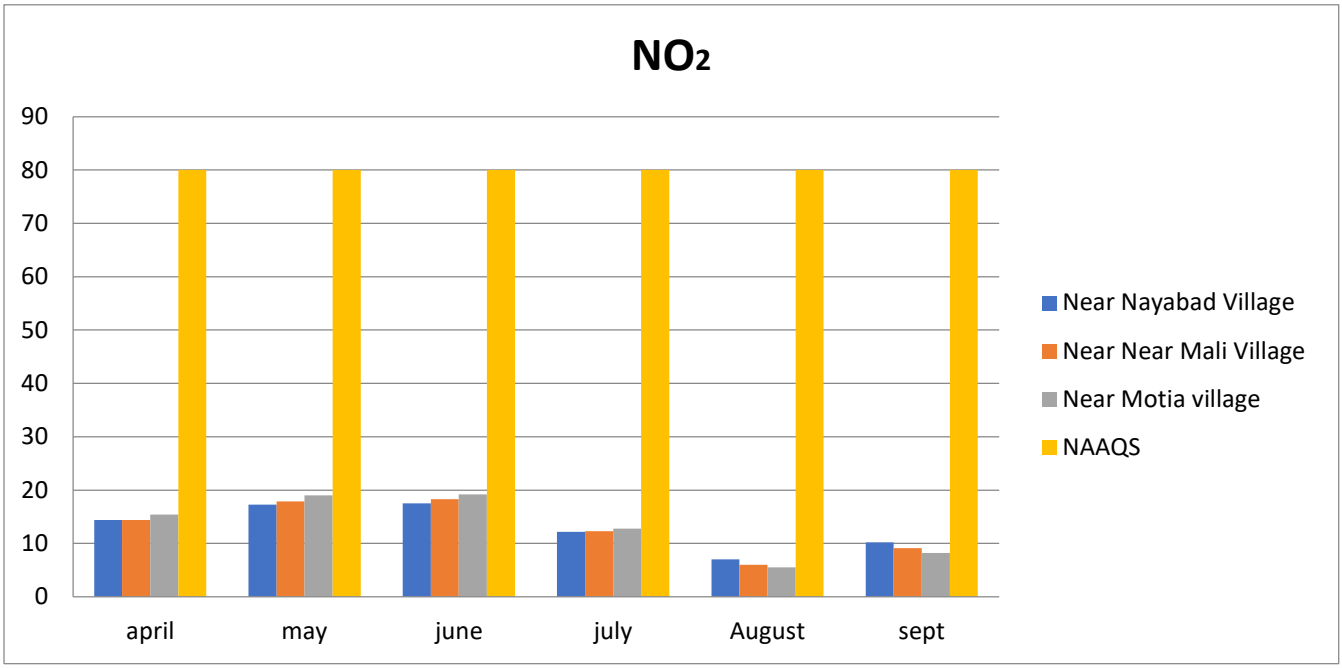
Graph 1: Particulate Matter ($PM_{2.5}$)



Graph 2: Particulate Matter (PM_{10})



Graph 3: Sulphur Dioxide (SO_2)



Graph 4: Nitrogen Dioxide (NO_2)

7.6 Summary

From all the above graphical representation it is clearly interpreted that all the values of PM_{10}, $PM_{2.5}$, SO_2 and NOx 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).

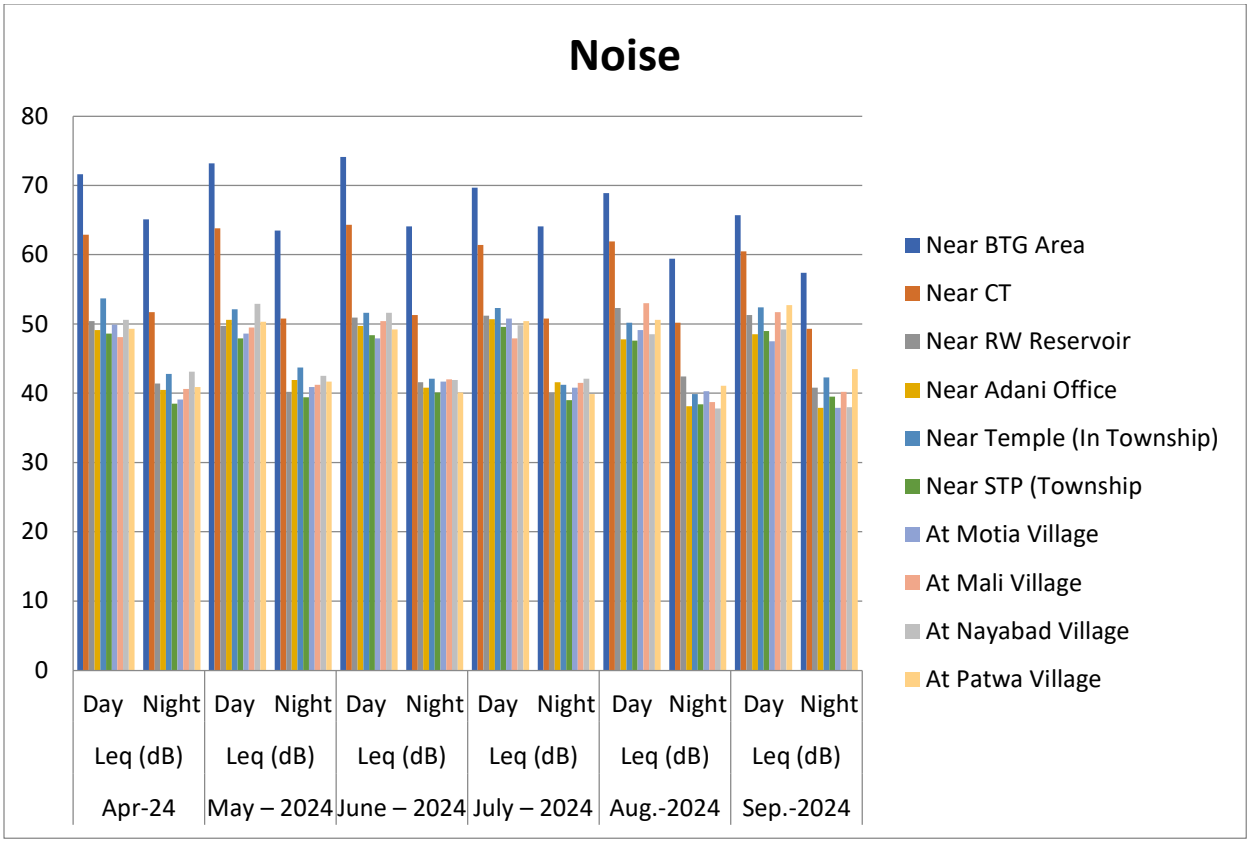
SECTION 9: NOISE MONITORING ANALYSIS

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 o 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 sh apply

Fig 2: Ambient Noise Standards

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 (**LOQ 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	700.0	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 Outle (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 (**LOQ-4.0)	5.3	5.3	4.2	8.1	6.3	*BLQ (**LOQ-4.0)	4.9	3.7	*BLQ (**LOQ-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.

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, SO_2, NO_2, Hg, HC, CO were lower than the prescribed limits for all the stated locations.

Annexure – 1

MoEF&CC and NABL Certificates

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

F.No. LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./ 1013 **Dated: 28th March 2023**

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

Contd.

Extract, Sodium, Soil moisture, TKN, 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 (NO_2), Sulphur Dioxide (SO_2), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM_{10}, Ammonia, Carbon monoxide, Chlorine, Fluoride, Non-Methane Hydrocarbon, Lead, Methane, Ozone, Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrine & 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,

K. Ranganathan 28/3/23

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

डॉ. के. रंगनाथन / Dr. K. Ranganathan
वैज्ञानिक 'ई' / Scientist 'E'
प्रभारी जल एवं उपकरणीय प्रयोगशाला
Div. Head-Water & Instrumentation Laboratory
केन्द्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
(M/o Environment, Forest & Climate Change, Govt. of India)
पर्यावरण भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh 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
"Service Assurance"

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 02
Party Reference No.: NIL

Analysis Protocol: IS-5182 & CPCB Guidelines
Parameter Required: As per work order
Sample Description : Ambient Air Quality Monitoring

Period of Analysis: Apr. 2024 To Sep. 2024

Month	PM2.5 µg/m3 IS 5182 (P-24):201	PM10 µg/m3 IS: 5182 (P-23), 2006	NO2 µg/m3 IS: 5182(P-6),2006	SO2 µg/m3 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

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

RK Yadav
Lab Incharge
Authorized Signatory

Term & conditions PTO

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

VIBRANT
"Experience the unimaginable"

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):201	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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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):201	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

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TEST REPORT

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 03**
		Party Reference No.:	**NIL**
Analysis Protocol:	**IS-11255 & USEPA**	**Period of Analysis:**	**Apr.2024 To Sep. 2024**
Parameter Required:	**As per work order**		
Sample Description :	**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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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 × 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 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(**LOQ-0.03)	*BLQ(**LOQ-0.03)	*BLQ(**LOQ-0.03)	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
18.	Boron	APHA (23rd Edition) 4500B: 2017	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-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 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
21.	Anionic Detergents as MBAS	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l	0.2	1.0
22.	Zinc as Zn	APHA (23rd Edition), 3030D,3113B: 2017	0.34	0.36	0.32	0.29	mg/l	5.0	15.0
23.	Copper as Cu	APHA (23rd Edition),3113B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
24.	Manganese as Mn	APHA (23rd Edition)3030D,3113 B: 2017	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
25.	Cadmium as Cd	APHA (23rd Edition)3030D,3113 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
26.	Lead as Pb	APHA (23rd Edition)3030D,3113 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
27.	Selenium as Se	APHA (23rd Edition)3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
28.	Arsenic as As	APHA (23rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
29.	Mercury as Hg	APHA (23rd Edition)3114C,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
30.	Hexa Valent Chromium	APHA (23rd Edition)3500 Cr B:2017	*BLQ(**LOQ-0.01)	*BLQ(**LOQ-0.01)	*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)	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-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

Name & Address of Party: M/s Adani Power Jharkhand Ltd.
2 × 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(**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	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(**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	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 (23rd 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(**LOQ-0.03)	*BLQ(**LOQ-0.03)	*BLQ(**LOQ-0.03)	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
18.	Boron	APHA (23rd Edition) 4500B: 2017	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-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 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
21.	Anionic Detergents as MBAS	APHA 23rd Edition,2017, 5530 C	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l	0.2	1.0
22.	Zinc as Zn	APHA (23rd Edition), 3030D,3113B: 2017	0.36	0.39	0.30	0.27	mg/l	5.0	15.0
23.	Copper as Cu	APHA (23rd Edition),3113B: 2017	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
24.	Manganese as Mn	APHA (23rd Edition)3030D,3113 B: 2017	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
25.	Cadmium as Cd	APHA (23rd Edition)3030D,3113 B: 2017	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
26.	Lead as Pb	APHA (23rd Edition)3030D,3113 B: 2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
27.	Selenium as Se	APHA (23rd Edition)3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
28.	Arsenic as As	APHA (23rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
29.	Mercury as Hg	APHA (23rd Edition)3114C,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
30.	Hexa Valent Chromium	APHA (23rd Edition)3500 Cr B:2017	*BLQ(**LOQ-0.01)	*BLQ(**LOQ-0.01)	*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)	*BLQ(**LOQ-0.2)	*BLQ(**LOQ-0.2)	mg/l		
32.	Temperature	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

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RK Yadav
Lab Incharge
Authorized Signatory

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Annexure – 2D

Surface Water Sampling and Analysis Report

TEST REPORT

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Name & Address of Party: M/s Adani Power Jharkhand Ltd.
2 × 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:: Sruface 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

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Lab Incharge
Authorized Signatory

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		Edition)3030D,3113B: 2017			
27.	Selenium as Se	APHA (23rd Edition)3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
28.	Arsenic as As	APHA (23rd Edition),3114C,2017	*BLQ(**LOQ-0.005)	*BLQ(**LOQ-0.005)	mg/l
29.	Mercury as Hg	APHA (23rd Edition)3114C,2017	*BLQ(**LOQ-0.001)	*BLQ(**LOQ-0.001)	mg/l
30.	Hexa Valent Chromium	APHA (23rd 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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Annexure – 2E

STP & ETP Waste Water Sampling and Analysis Report

TEST REPORT

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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**
		Party Reference No.:	**NIL**
Analysis Protocol:	**IS-3025**	**Period of Analysis:**	**Apr.2024 To Sep. 2024**
Parameter Required:	**As per work order**		
Sample Description :	**Waste Water**		

Summary Reports

S.N	Parame r	Apr. 2024						May. 2024			June. 2024		
		STP Outle (Townshi	STP Outle (Plant)	STP Inlet (Townshi	STP Inlet (Plant)	ETP Outle	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 Outle	ETP Inlet	STP Outlet (Township	STP Outle (Plant)	STP Inlet (Townshi	STP Inlet (Plant)	ETP Outle	STP Outle (Townshi	STP Outlet (Plant)	ETP Outle	STP Outlet (Township)	STP Outle (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

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Annexure – 3F

Noise Monitoring Report

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TEST REPORT

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 04**
		Party Reference No.:	**NIL**
Analysis Protocol:	**IS-9989 & CPCB Guidelines**	**Period of Analysis:**	**Apr. 2024 To Sep. 2024**
Parameter Required:	**As per work order**		
Sample Description :	**Ambient Noise Level Monitoring**		

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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Annexure – 2G

Water Level Monitoring Report

TEST REPORT

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Sample Number:	VTL/ WL/01	**Report No.:**	VTL/WL/2404190001-04
Name & Address of Party:	M/s Adani Power Jharkhand Ltd. 2 × 800 MW Thermal Power Plant, Village: Motia, Dist: Godda, Jharkhand	**Format No.:**	7.8 F-01
		Party Reference No.:	NIL
		Report Date:	25/04/2024
Sample Description :	Water Level	**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

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Sample Number:	**VTL/ WL/01**	**Report No.:**	**VTL/WL/2407230001-04**
Name & Address of Party:	**M/s Adani Power Jharkhand Ltd. 2 × 800 MW Thermal Power Plant, Village: Motia, Dist: Godda, Jharkhand**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Report Date:	**30/07/2024**
Sample Description :	**Water Level**	**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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Annexure – 2H

Soil Quality Monitoring Report

TEST REPORT

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Sample Number:	VTL/S0/01-03	Report No.:	VTL/S0/2405200001-03
	M/s Adani Power Jharkhand Ltd.	Format No.:	7.8 F-01
Name & Address of the Project:	2 × 800 MW Thermal Power Plant, Village: Motia, Dist: Godda, Jharkhand	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
Sample Description:	SOIL	Type of Sampling:	Composite
Sample Collected by:	VTL Team	Sampling Quantity:	2.0 Kg
Method of Sampling:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

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/hec
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/hec.
10.	Available Phosphorus	24.56	20.15	28.16	kg/hec.

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Annexure - II

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)

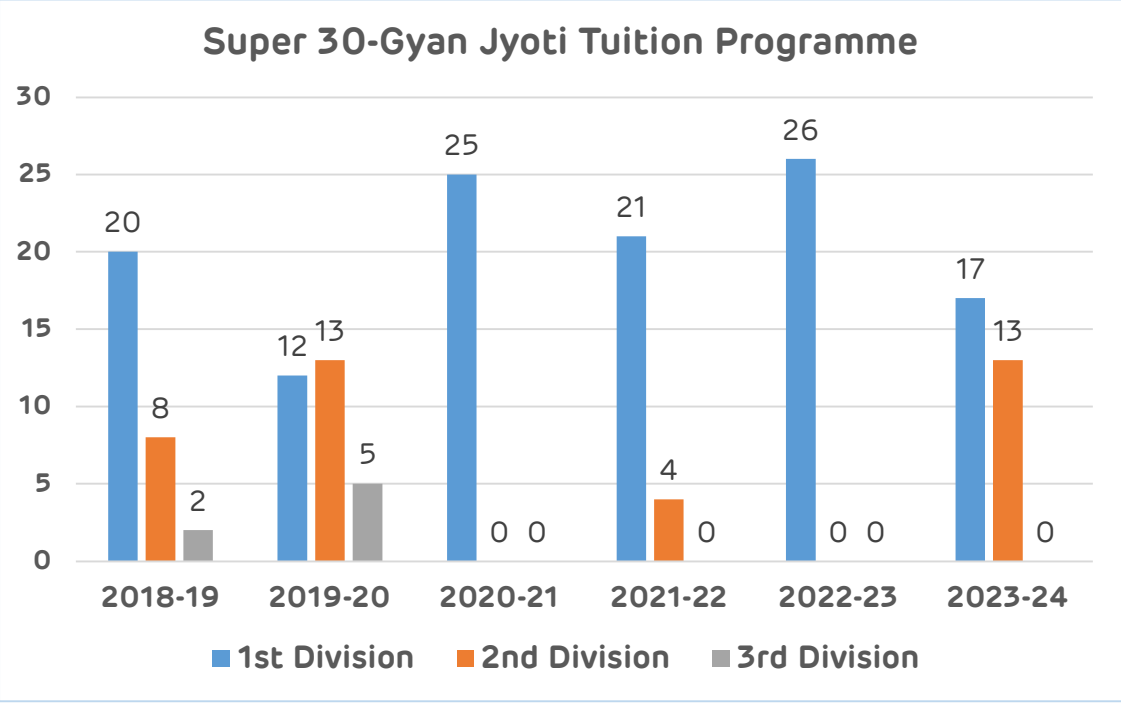
1. **Adani Competitive Coaching Centre (ACCC)- Gyan Jyoti Tuition Program- Super 30: -** Education plays a vital role in development of society economically, socially, and financially, it also helps them to strengthen, so 'Adani Gyan Jyoti Yojana- Super 30 Program' was initiated in 2018-19 in Motia Village 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 10th Results- Gyan Jyoti Tuition Programme								
Academic Session	Gyan Jyoti Kendra	Students			Students			Overall Passing %
		Enrolled	Appeared	Passed	1st Division	2nd Division	3rd 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



- **<u>Enrollment in Year 2024-25</u>: 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, Boarijor, 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 Chaprashi 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					
SN	**Project Area**	**Distribution duration**	**Name of block**	**Location/Village**	**No of HHs**
Tarpaulin Support (Affected Families from Natural Hazards)					
1	Periphery Area	27th May 2024	Podaiyahat	Asadi Madhuri	1
2	Periphery Area	10th June 2024	Podaiyahat	Sarba	1
3	Core Area	13th July 2024	Podaiyahat	Sondiha	4
4	Core Area	13th July 2024	Godda	Ranitikar	5
5	Core Area	9th August 2024	Godda	Motia	1
6	Pipeline Area	9th 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 heartlet 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	Lohiyanagar 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.

Annexure – III

Total Plant Area : 3.22 HA

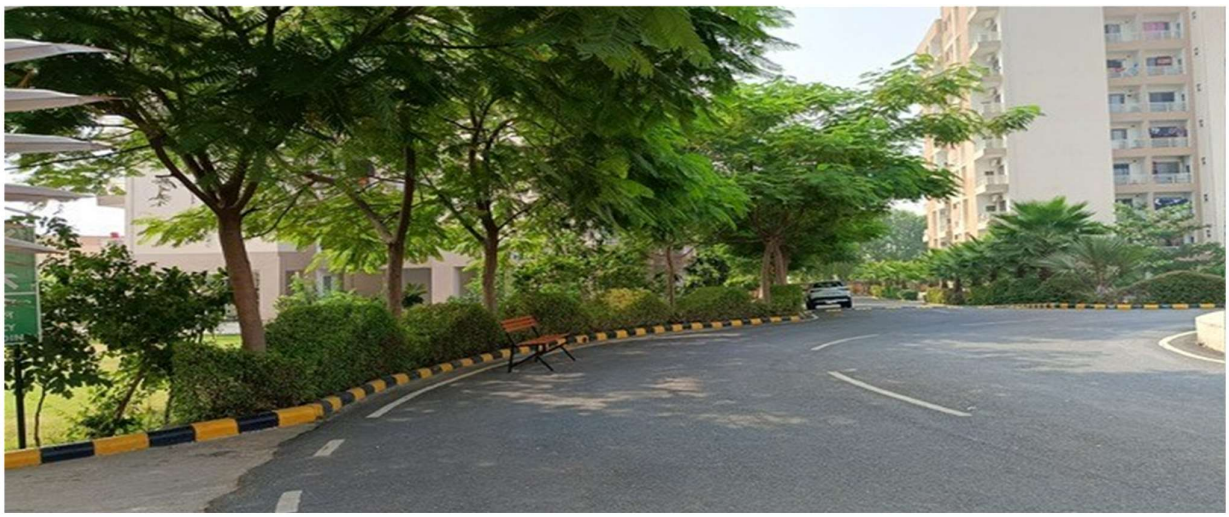
Green Belt Developed area: 1.06 HA (33%)

Sl. No	Species	Sl. No	Species
1	Jamun	22	Ashoka
2	Hyophorbe lagenicaulis	23	Latina
3	Murraya peniculata	24	Ficus Benghalensis
4	Golden Bamboo	25	Ficus Benjamin
5	Curry Tree	26	Pipal
6	Hibiscus	27	Amaltas
7	Mango	28	Pterospermum acerifolium
8	Lemon	29	Sisham
9	Guava	30	Peltaform
10	Hemelia	31	Royal Palm
11	Clerodendrum inerme	32	Hedge
12	Parijat Tree	33	Shrubs
13	Bakul	34	Dypsis Decaryi
14	Conocarpus	35	Areca Palm
15	Alestonia Scholaris	36	Plumeria Champa
16	Foxtail Palm	37	Caeselpinia
17	Bahunia	38	Cycas Circinalis
18	Ticoma	39	Phalsa
19	Micheia Chama	40	Jamun
20	Bouganvelia	41	Neem
21	Pilkhan	42	Nerium

Greenery in Township

Green Belt along the Road

Green Belt along the road



Green Strips

Greenery in Township

Green Belt along the boundary

Green Lawn with plantation

Plantation along the Boundary

Green Belt near Building

Plantation along the road

Plantation along the Road

Plantation along the road