



## Power

Ref: APL/Kawai/EMD/EC/MoEFCC/214/11/23  
Date: 25/11/2023

To,

**Additional Principal Chief Conservator of Forest**  
**Ministry of Environment, Forest and Climate Change**  
Integrated Regional Office, Jaipur  
Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area.  
Jaipur – 302004, Rajasthan

**Sub: Six Monthly Compliance Status of Environment Clearances for Kawai Thermal Power Plant along with Environmental Monitoring reports- reg.**

Ref: Environmental Clearance letter no. **J-13012/154/2008-IA.II (T)** Dated- **04.05.2011** & Amendment on 13/03/2014.

Dear Sir,

With reference to above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) compliance status report along with Environmental monitoring reports as Ambient Air Quality, Water Quality, Noise level & Soil quality, CAAQM data, Met. data, Greenbelt development details, Fly ash & CSR Progress Report etc. for the period of **April'2023 to September'2023** in soft (e-mail).

This is for your kind information & record please.

Thanking You,  
Yours faithfully,  
for **Adani Power Limited, Kawai**

**(Santosh Kumar Singh)**  
**Authorized Signatory**

**Encl:** as above

**CC:**

Member Secretary  
**Central Pollution control Board**  
Parivesh Bhavan, East Arjun Nagar  
Kendriya Paryavaran Bhawan  
New Delhi- 110 032.

Member Secretary,  
**Rajasthan State Pollution Control Board**  
4, Institutional Area, Jhalana Doongri  
Jaipur - 302 004

The Regional Officer,  
**Rajasthan State Pollution Control Board**  
Jhalawad, Rajasthan

Adani Power Ltd  
Adani Corporate House  
Shantigram, S G Highway  
Ahmedabad 382 421  
Gujarat, India  
CIN: L40100GJ1996PLC030533

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

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

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

**1320 (2x660) MW  
KAWAI THERMAL POWER PLANT**

At

**VILLAGE- KAWAI, TEHSIL-ATRU DISTRICT- BARAN,  
RAJASTHAN**

*Submitted to:*

**Integrated Regional Office, Jaipur  
Ministry of Environment, Forests & Climate Change  
Central Pollution Control Board, New Delhi  
Rajasthan State Pollution Control Board, Jaipur**



*Submitted By:*

**Environment Management Department**

**Adani Power Limited**

**Village Kawai, Tehsil Atru,  
District- Baran, Rajasthan**

**PERIOD: April'2023 to September'2023**

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## ADANI POWER LIMITED, KAWAI

### Introduction

Adani Power Limited (formerly known as Adani Power Rajasthan Ltd.) has established 1320 MW (2 x 660 MW) Coal based Supercritical Thermal Power Plant at Village-Kawai, Tehsil Atru, District Baran in Rajasthan.

Kawai Thermal Power Plant is located at village- Kawai, Tehsil- Atru, District- Baran (Rajasthan). The power plant is based on supercritical, energy efficient & environment friendly technology.

Environmental Clearance from Ministry of Environment, Forest & Climate Change (MoEF&CC) has granted Environmental Clearance (EC) on dated 04.05.2011, subsequent amendment in EC dated 13.03.2014 and transferred EC **from Adani Power Rajasthan Limited to Adani Power Limited** was granted on dated 24.04.2023 and has also obtained Consent to Establish as well as Consent to Operate (CTO) from Rajasthan State Pollution Control Board. The plant is fully operational since December '2013. As the part of the compliance of statutory requirement environmental quality monitoring is being done inside the premises and in nearby villages.

Ambient Air Quality Monitoring Stations has been established in consultation with Rajasthan State Pollution Control Board, three locations within the plant premises & three locations outside plant in different village based on meteorology of the site and consultation with Rajasthan State Pollution Control Board, Presently Environmental monitoring & analysis is being carried out by M/s IRCLASS System and Solutions Pvt. Ltd., Jaipur, (Rajasthan).

Point wise compliance status of **Environmental Clearance for 1320 MW (2 x 660 MW)** Coal based Supercritical Kawai Thermal Power Plant is furnished herewith.

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**COMPLIANCE STATUS ON ENVIRONMENTAL CLEARANCE  
1320 (2×660) MW Coal Based Kawai Thermal Power Plant**

Vide letter No. J-13012/154/2008-IA.II (T) dated 04.05.2011 &  
subsequent amendment dated 13.03.2014 &  
Transferred of EC from APRL to APL dated 24.04.2023.

A	Specific Condition	Status
(i)	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Complied. Vision document had already been submitted along with first EC Compliance report.
(ii)	In case source of fuel supply is to be changed at a later stage (now proposed on imported coal from South Africa) the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conducting public hearing may be decided by the ministry in consultation with the Expert Appraisal Committee.	Complied MoEF&CC has amended the Environmental Clearance vide letter No. J-13012/154/2008/IA. II (T) dated 13.03.2014 for Indigenous / Domestic Coal from Subsidiary companies of Coal India Limited in place of Imported Coal with some additional conditions. The compliance of the additional conditions is included in this compliance report. MoEF&CC has granted Transfer of EC from Adani Power Rajasthan Limited to Adani Power Limited vide letter No. J-13012/154/2008 IA.II(T) dated 24.04.2023.
(iii)	Wildlife conservation plan shall be prepared in consultation with the office of the Chief Wildlife Warden concerned for implementation. Status of implementation shall be submitted to the regional office of the ministry periodically.	A detail study of Wildlife conservation plan has already done (Document no. EES/AG/001/259-Biological study) by consultant in consultation with forest department & conservation plan already submitted to the Chief Wildlife Warden, Jaipur for approval. The Report also submitted to the DFO Baran. A copy of the conservation plan was submitted to your office along with Six monthly compliance report
(iv)	Possibility for harnessing solar power within the premises of the plant particularly at available roof tops shall be examined and status of implementation shall be submitted.	80 no. Solar light are installed near hostel/residential area in first phase of solar harnessing program. Solar panels are installed for streetlights of residential complex. 10KW capacity Solar Panel is installed at rooftop of Administrative Building to harness solar energy for its consumption.
(v)	An equal area of grazing land proposed to be acquired for the project shall be identified and developed in consultation with the village Panchayat and the district administration before final acquisition of the said land.	Complied Development of waste land to grazing land in village Kunjed of Atru Tehsil is completed as per "Mukhyamantri Jal Swavlamban Abhiyan" (MJSA) as suggested by District Collector, Baran.

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(vi)	Coal transportation to plant site shall be by rail. The project proponent shall take up the matter with the Railways and shall submit action taken and implementation status to the ministry from time to time.	Being complied. Coal is being transported to power plant through Rail only.
(vii)	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state govt.	Development of existing degenerated water body in village Antana of Atru tehsil is completed as proposal approved by District Collector, Baran under "Mukhyamantri Jal Swavlamban Abhiyan" (MJSA) vide letter no. 2016/280-85 dated 09.02.2016. Existing seasonal water bodies within the study area is identified for regeneration under company's CSR programme by Adani Foundation and has been implemented in phased manner.
(viii)	Hydrogeology of the area shall be reviewed annually from an institute / organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports / data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	Complied. Hydrogeology of the area is being reviewed regularly. Last hydrogeology reviewed done in Year- 2020 by third party to assess the surface & ground regime. (Especially around ash dyke). Regular water quality monitoring is also being carried out by MoEF&CC/NABL accredited Laboratory. The water quality monitoring results is being submitted regularly along with Six Monthly Compliance reports.
(ix)	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months	Water allocation from Parvan River for 34 MCM. This quantity is adequate to meet the plant's requirement, including lean season.
(x)	No ground water shall be extracted for use in operation of the power plant even in lean season.	Complied. There is no ground water extraction for use in operation of the power plant even in lean season.
(xi)	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.	No water body was disturbed while setting up power plant.
(xii)	Minimum required water flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel / Rivers (as applicable) even in lean season.	Kawai TPP has no role in the distribution of water from Parvan irrigation Project. Water Resource Department, Govt. of Rajasthan will maintain the minimum required water flow during lean season.
(xiii)	Water requirement shall be restricted as per CEA norms and COC of 5.0 shall be adopted.	Complied It has been incorporated in the plant design and being maintained.

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(xiv)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline so as to ensure that the ground water quality is not adversely affected due to the project.	Being Complied. Regular monitoring of ground water quality including heavy metals is being carried out in and around the plant area by MoEF&CC accredited agency and NABL accredited Environment laboratory of APL. Please refer attached <b>Annexure-I</b> . Three Piezometric wells are established around the ash pond. Record are being maintained and attached as <b>Annexure-II</b> .
(xv)	Monitoring surface water quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Being Complied. Regular monitoring for surface and ground water quality is being carried out including heavy metals in & around the ash pond and nearby villages, Monitoring report enclosed herewith. Please refer <b>Annexure I</b> .
(xvi)	A well-designed rainwater harvesting shall be put in place before commissioning of the plant. Central Ground Water Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology / design within a period of three months from the date of this clearance and detail shall be furnished. The design of rainwater harvesting shall comprise of rainwater collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	Complied Design for rainwater harvesting scheme is prepared by Hydro-geo Survey Consultant- Jaipur and the same is submitted to Regional Office of CGWB, Jaipur, MoEF&CC regional office, Lucknow and MoEF&CC New Delhi. Rainwater harvesting pond already constructed within the plant to store and reuses more than <b>120000 m<sup>3</sup></b> of water.
(xvii)	Additional soil for levelling of proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	The entire plant area was almost flat and having stony outcrop. There are no streams within the plant premises.
(xviii)	Provision for installation of FGD shall be provided for future use.	Space was provided for FGD in the plant layout for further requirement.  Kawai TPP is in process to install FGD and revised ICB has been issued to install FGD as per implementation schedule of CPCB as well as CEA. As per MoEFCC Notification dated 5th Sep 2022, Kawai TPP is falling under Category "C" Non- retiring TPPs and the timelines of installation of FGD in compliance of SO <sub>2</sub> emission is up to December'2026.

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(xix)	The project proponent shall undertake measures and ensure that no fugitive fly ash emission take place at any point of time.	Being complied. Pneumatic ash handling system with bag filters provided for ash handling. The crusher houses for coal are provided with Dust Extraction System & Bag Filter. Dust Suppression System (DSS) and Water Sprinkling System are provided in coal stock yard and ash dyke.
(xx)	Stack of 275 m height shall be installed and provided with continuous online monitoring equipments for SO <sub>x</sub> , NO <sub>x</sub> and PM <sub>2.5</sub> & PM <sub>10</sub> . Exit velocity of flue gases shall not be less than 22 m/s. Mercury emissions from stack may also monitored on periodic basis.	Twin flue stack of 275 meter constructed. Continuous Emission Monitoring System installed in both flues for SO <sub>2</sub> , NO <sub>x</sub> , and PM. The flue gas velocity is more than 22 m/sec. Hg monitoring in stack is being carried out by third party on quarterly basis. CEMS results attached as <b>Annexure IA.</b>
(xxi)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	Complied. High Efficiency Electrostatic Precipitators have been provided to each boiler (ESPs) to meet particulate emission less than 50mg/Nm <sup>3</sup> , ESP efficiency is being observed by our operation department. Details of monitoring results as carried out by NABL accredited environmental lab for Unit-1 and 2 & also same is being submitted to Statutory body on regular basis. All stack monitoring results are well within the prescribed limit which is showing efficiency of ESP. Monitoring results are attached as <b>Annexure I.</b>
(xxii)	Adequate dust extraction system such as cyclones / bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complied. Dust extraction system with bag filter in coal crusher house has been provided. Pneumatic ash handling system with bag filters provided for ash handling. Water sprinkling system provided in coal yard.
(xxiii)	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Being Complied. Ash utilization / implementation report being submitted to MoEF&CC, CPCB, RSPCB as well as CEA. Implementation status of fly ash utilization is enclosed herewith. Please refer <b>Annexure-III.</b>
(xxiv)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb, etc.) will be monitored in the bottom ash as also in the	Being Complied Kawai TPP has signed MoUs for ash utilization with Mangalam Cement Ltd., J.K. Cement Ltd., Mangrol & Nimbahera, Birla Corporation Ltd, Nuvoco Vistas Corp. Ltd., Shriram Cement Ltd, Wonder Cement Ltd apart that above parties we are also providing



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	effluents emanating in the existing ash pond. No ash shall be disposed off in low lying area.	to ACC Ltd, Ambuja Cement, Birla Corporation Ltd., Nirma Ltd., India cement Ltd., Heidelberg cement India Ltd, India Cements Ltd, Heidelberg cement India Ltd., TSG Ashtech Movers Pvt. Ltd., etc. Heavy metal analysis is being carried out for As, Pb, Hg, Cr Fe, Cu, Zn, Cd, and Ni in fly ash. Analysis report of the same is attached as <b>Annexure-I</b> .
(xxv)	Ash pond (if any) shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Complied Well design ash pond with LDPE lining has been established as per guidelines of MOEF/CEA/CPCB. Safety measure such as bund with toe wall and lining of side slope is done to prevent any leachate.
(xxvi)	Sulphur and ash contents in the imported coal to be used in the project shall not exceed 0.6 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to Ministry for suitable amendments to environmental clearance condition wherever necessary.	Complied EC amended on dated 13.03.2014 through vide letter No. J-13012/154/2008/IA. II (T) for change in the fuel quality & source.
(xxvii)	Green Belt consisting of 3 tiers of plantations of native species around the plant of atleast 75 m width shall be raised (except in areas not feasible). The density of trees shall not be less than 2500 per Ha and rate of survival atleast 80%.	Green belt / plantation is being developed. Our efforts are to develop more greenery in and around the plant premises. Full-fledged horticulture department is established under the guidance of the experienced horticulturist in consultation with the local forest department for the development of green belt / plantation has been established. About 131,450 tree saplings have been planted and achieved 90% survival rate. Please refer <b>Annexure-IV</b>
(xxviii)	Over and above the green belt, as carbon sink, social forestry shall be carried out in close consultation with the Forests Department. The project proponent shall accordingly identify blocks of land / degraded forests and shall undertake regeneration of degraded forests at a large scale. In pursuance to this the project proponent shall formulate time bound action plan along with financial allocation and shall submit status of implementation to the Ministry within six months.	Social forestry with active participation of the villagers and school children are being carried out in close consultation with Forest Department, Action plan regarding social forestry and regeneration of degraded forest is under implementation. Planted 1200 Saplings along with the NH-90 in association with forest department. About 500 trees are also planted in school campus & villages.
(xxix)	Atleast three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre,	Complied. Baldevpura, Kawai, Salpura, Khedli Gaddiyan and Nimoda are adopted for development of

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	primary school etc. shall be developed in co-ordination with the district administration.	basic amenities in co-ordination with the district administration. Beside 41 Schools, 2 PHC, 1 CHC of surrounding Gram Panchayats are adopted in association with district administration of Govt. of Rajasthan.
(xxx)	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Complied. Need based assessment study report have been already submitted to MoEF&CC. Recommendation made in the report are being implemented by Adani Foundation. Please refer <b>Annexure V</b> .
(xxxii)	CSR schemes shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken.	Based on the need-based assessment report under the CSR, recommendations made in the CSR report are being implemented by Adani Foundation. Please refer <b>Annexure V</b> . Main Focus has been given on Education, Health, Alternative Livelihood and Rural Infrastructure. Please refer <b>Annexure V</b> .
(xxxiii)	It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time. The achievements should be put on company's website.	The implementation of CSR activities carried out by Adani Foundation. Implementation / achievement of CSR activities are being submitted along with EC compliance on regular basis. Please refer <b>Annexure V</b> .
(xxxiv)	An amount of Rs 28.0 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 5.6 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.	Separate budget has been earmarked for CSR activities. CSR activities are being carried out by Adani Foundation. CSR report and expenditures is attached as <b>Annexure V &amp; VIII</b> respectively.
(xxxv)	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation.	Complied. Social audit report is prepared by Indian Institute of Social Welfare and Business Management of University of Kolkata. Audit report is submitted along with six monthly compliance report.

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<b>Additional Specific Conditions</b>		
(xxxv)	The Coal transportation by road shall be through tarpaulin covered trucks for a maximum period of two years and hence forth shall be only through mechanically covered trucks.	Coal is being transported by Rail up to Plant premises.
(xxxvi)	Avenue plantation of 2/3 rows all along the road shall be carried out by project proponent at its own expenses.	Complied. 2 Tier greenbelt as avenue plantation has been developed up to 3KM distance along both side of nearest NH-90.
(xxxvii)	Periodic maintenance of the road shall be done by the project proponent at its own expenses and shall also facilitate the traffic control on the road.	We have maintained the approach road from plant main gate to the nearest highway (NH-90) and linked road to plant.
(xxxviii)	Sulphur and ash contents in the domestic coal to be used in the project shall not exceed 0.4% and 33% at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to the ministry for suitable amendments to environmental clearance condition wherever necessary.	Being Complied Half yearly & annual reports of Ash Utilization & ash content in coal being submitted to MoEF&CC and Central Electricity Authority (CEA) since plant operation. <b>Please refer attached Annexure-III.</b>
(xxxix)	A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Being Complied Test results of coal samples for radio activity and heavy metal report submitted along with previous compliance report.
(xl)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	Solar streetlight near administrative building and along approach road has been installed to harness solar power.
(xli)	Fugitive emissions shall be controlled to prevent impact on agriculture or non-agriculture land.	Being Complied. Adequate air pollution control measures such as Dust Extraction System (DES), Dust Suppression System, Wind Shield, water sprinkling & Fog canon system have been provided to meet particulate matter emission within the norms.
(xlii)	Fly ash shall not be used for agriculture purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be	The generated fly ash is being used by cement industries as per 'Fly Ash Notification'. Copy of annual data on fly ash generation & utilization is being submitted to MoEF&CC, CPCB, and SPCB & Central Electricity Authority (CEA).

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	undertaken from an institute of reputed and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	Fly Ash generation & utilization is attached as <b>Annexure III.</b>								
(xliii)	Three tier green belt shall be developed all around Ash Pond over and above the Green Belt around the plant boundary and grassing shall be done on the ash mound.	Plantation all along ash dyke is taken up by seed broadcasting of species like Subabul, Jatropha and Desi Babool. Slope of ash dyke is covered with grass to avoid soil erosion.								
(xliv)	An Environmental Cell be created at the project site itself and shall be headed by an officer of the company of appropriate seniority and qualification. It shall be ensure that the head of the Cell directly report to the Head of the Organization. The Environmental Cell shall be responsible and accountable for implementation of all the conditions given in the EC including in the amendment letter.	Being Complied We have already established an Environmental Management Cell headed by Manager & supported by Env. Engineer, Officer, Chemist & Horticulturist. We have NABL accredited Laboratory. Certificate Number- TC-5235 valid up to 28/03/2025. Please refer attached NABL certificate attached as <b>Annexure-VII.</b>								
(xlv)	The project proponent shall formulated a well laid Corporate Environmental Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Corporate level Environmental Policy has been developed to implement EMS (Environmental Management System) as per ISO 14001-2015. Environmental Management System as per EMS ISO 14001 implemented Integrated Management System (IMS) is also Implemented.								
<b>B</b>	<b>General Conditions:</b>									
(i)	The treated effluents confirming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Complied. ETP has been established (Capacity- 226 m3/hr. based on primary treatment) to treat effluents and treated water reuses within the premises. The concept of "Zero Liquid Discharge Condition" is implemented except during non-monsoon period. Separate drainage network is established for storm water.								
(ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt / plantation.	Complied. Sewage Treatment Plant has been established inside the plant & treated domestic water is suitably reused within the plant premises in plantation / green belt development.								
		<table border="1"> <thead> <tr> <th>Particular</th> <th>Capacity</th> <th>Total Capacity</th> <th>Technology</th> </tr> </thead> <tbody> <tr> <td>STP</td> <td>120 KLD + (10 x 2 KLD)</td> <td>140</td> <td>Mikie Bioreactor</td> </tr> </tbody> </table>	Particular	Capacity	Total Capacity	Technology	STP	120 KLD + (10 x 2 KLD)	140	Mikie Bioreactor
Particular	Capacity	Total Capacity	Technology							
STP	120 KLD + (10 x 2 KLD)	140	Mikie Bioreactor							

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(iii)	Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Adequate safety team has been established in plant site to take preventive control measures. Fire hydrant system for firefighting is provided in plant layout. Fire & Safety department made available with 3 no. of firefighting tanker equipped with all necessary control system.
(iv)	Storage facilities for auxiliary liquid fuel such as LDO and / HFO / LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	The fuel LDO and HFO are properly stored in minimum risk area and as per the norms fixed by the Chief Controller of Explosives. A disaster management plan is prepared covering all the eventualities due to storage of oil. It is ensured that sulphur content is less than 0.5% in liquid fuel. Please refer explosive licence/ certificate is attached as <b>Annexure-IX</b> .
(v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid as well as OHC established with well-equipped Ambulance and qualified Doctor. Housekeeping and sanitation facilities are available for the drivers and contractual workers during construction.
(vi)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs / ear muffs etc. shall be provided. Workers engaged in noisy area such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy / less noisy area.	Necessary action has been taken care to maintain noise levels in work zone area within 85 dB(A) from source during the plant operation. The personal protective equipment (PPE) is provided to workers & employees working in noisy areas. Noise level monitoring is carried out regularly. Periodic audiometric check-up is carried out. Occupational Health & Safety Management System as per ISO 45001 as implemented.
(vii)	Regular monitoring of ambient air ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Being Complied. Regular Environmental monitoring of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> and Hg is being carried out by third party Env. Lab. The Ambient Air Quality Monitoring locations are established in consultation with RPCB. Full fledge Environmental Lab for Air & Water has been established. Monitoring reports attached as <b>Annexure I</b> .
(viii)	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and	Complied. During construction, provision was made for common facilities to labours as toilets, safe

**ADANI POWER LIMITED, KAWAI**

	facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	drinking water, medical health care etc. who were engaged for construction.
(ix)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a>	Complied Advertised in local daily News Paper 'Dainik Bhaskar and Rajasthan Patrika' on 10 <sup>th</sup> May 2011 in Hindi.
(x)	A copy of 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, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied Copy of clearance letter has been submitted to Kawai Village Panchayat and Zila Parishad, Baran.
(xi)	An Environmental Cell comprising of at least one expert in environmental science / engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the head of the Cell shall directly report to the head of the organization and he shall be held responsible for implementation of environmental regulations and social impact improvement / mitigation measures.	Complied. We have already established an Environmental Management Cell headed by Manger & supported by Env. Engineer Officer, Chemist & Horticulturist. Full fledge Environment Lab (Air & Water) has been established. Environmental Management System as per EMS ISO: 14001:2015 implemented.
(xii)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient	Six monthly Environmental Clearance compliance status report is regularly submitted to MoEF&CC, CPCB and SPCB. The same is sent by email also. Compliance status updated on company's website <a href="http://www.adanipower.com">www.adanipower.com</a>

**ADANI POWER LIMITED, KAWAI**

	location near the main gate of the company in the public domain.	
(xiii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Environment Statement has been submitted with vide letter no APRL/PK/GOVT/RSPCB/00625, dated-15.09.2023.
(xiv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forest, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forest.	Six monthly compliance on the Environmental Clearance granted by MoEF&CC is being submitted to MoEF&CC, CPCB & RSPCB regularly. Compliance status updated on company's website. Compliance report for the period of October'2022 to March'2023 has been submitted to your good office vide letter no.: APL/APRL/EMD/EC/MoEF/209/05/23 dated 24.05.2023.
(xv)	Regional Office of the Ministry of Environment & Forest will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environmental Management Plan along with additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	Noted Compliance assured.
(xvi)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for	Being Followed. Separate fund has already been allocated and being utilized for Environmental Protection. Environment protection measures (EMP & CER) Expenditure is attached as <b>Annexure-VIII</b> .

## ADANI POWER LIMITED, KAWAI

	other purposes and year-wise expenditure should be reported to the Ministry.	
(xvii)	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Complied
(xviii)	Full cooperation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry at Rajasthan / CPCB / SPCB who would be monitoring the compliance of environmental status.	Noted, Full co-operation always be extended.

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SIX MONTHLY COMPLIANCE REPORT ON  
ENVIRONMENTAL MONITORING  
as  
AMBIENT AIR QUALITY,  
WATER QUALITY, SOIL QUALITY AND NOISE LEVEL  
for



**Adani Power Limited**

**(2x660 MW- SUPERCRITICAL THERMAL POWER STATION)**

**Village - Kawai, Tehsil - Atru, District -Baran, Rajasthan**

PREPARED BY:  
**IRCLASS SYSTEMS AND SOLUTIONS PVT LTD**  
**B-11G CEG TOWER, 1<sup>ST</sup> AND 2<sup>ND</sup> FLOOR.**  
**INDUSTRIAL AREA, MALVIYA NAGAR**  
**JAIPUR, RAJASTHAN-302017**

Approved by Ministry of Environment & Forest (Govt. of India)  
And Rajasthan State Pollution Control Board

Accredited by National Accreditation Board for Testing & Calibration Laboratories  
Certified by ISO 9001: 2008

**PERIOD: April-2023 to September-2023**

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## 1 EXECUTIVE SUMMARY

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ADANI group has constructed 2 units of 660 MW Supercritical Thermal Power Station at Village- Kawai, Tehsil- Atru, District- Baran, Rajasthan. The plant is designed to generate 2x660 MW electricity. The site is located Near Salpura Railway Station in district Baran, Rajasthan. The plant is well connected by Road and Rail network with different part of Rajasthan and adjoining states, at present both units are in operation.

M/s Adani Power Rajasthan Limited (amalgamated with Adani Power Limited) has awarded environmental monitoring job work to **M/s IRCLASS Systems and Solutions Pvt. Ltd.** vide Service Order No 5700323105 dated 29/03/2023 for Sampling/Monitoring and Testing of Environmental parameters on quarterly basis for the period 01/04/2023 to 31/03/2025.

The samples for determination of quality of Ambient Air analysis, Ground Water, Soil, Source Emission, Noise, etc. are collected from Site and analyzed at IRCLASS Systems and Solutions Pvt. Ltd., Jaipur.

The overall results for the third and fourth quarters are found to be satisfactory. The plant was performing well during the monitoring and environmental parameters in each segment like Ambient air, source emission, soil, Water, wastewater, and noise are found to be within the permissible limits.

## **2 BRIEF DESCRIPTION OF ADANI POWER AND KAWAI THERMAL POWER STATION**

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### **2.1 ADANI THERMAL POWER STATION**

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Adani, a conglomerate with a formidable presence in multiple businesses across the globe, has entered the power sector to harbingers a 'Power Full' India, by generating 20,000 MW of power by 2020. Comprehension of the criticality in meeting the power requirement and its crucial role in ensuring the energy security of India, spurs us to build India's largest and one of the world top 5 single location thermal power plant in Mundra.

Adani Power Limited has commissioned the first supercritical 660 MW unit in the country. Mundra is also the WORLD'S FIRST supercritical technology project to have received 'CLEAN DEVELOPMENT MECHANISM (CDM) Project' certification from United Nations Framework Convention on Climate Change (UNFCCC).

### **2.2 KAWAI THERMAL POWER STATION**

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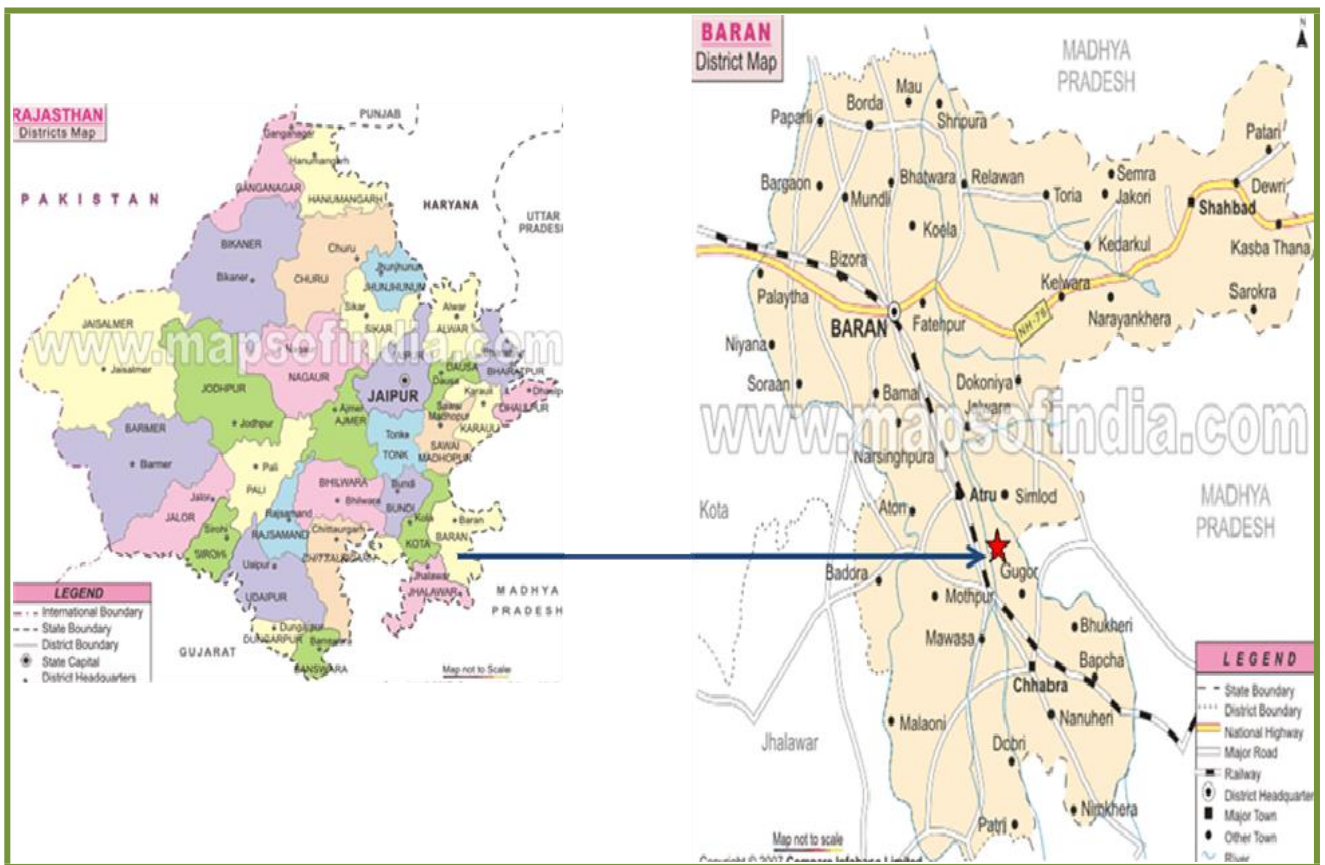
Adani Enterprises Limited (AEL) have signed MoU with Energy Department, Government of Rajasthan on 20<sup>th</sup> March 2008 for developing a Thermal Power Project of 1320 MW capacity at Kawai, District Baran, Rajasthan. For this purpose, Adani Enterprises Limited (AEL) has registered Adani Power Rajasthan Limited, amalgamated with Adani Power Limited. The site is approximately 120 km from Kota and 40 Kms from Baran.

The plant is covered in around 350 Ha. area. The possession of 350 Ha has already been given to APL by Govt. of Rajasthan. The coal and water requirement of the plant is 5.6 MTPA and 34 MCM respectively.

Both imported and domestic coal is being used. Water is drawn through a dedicated pipeline from the PARWAN River located about 15 km from the plant.

### 2.3 LOCATIONS OF THE PLANT

<b>State</b>	<b>Rajasthan</b>
<b>District</b>	Baran
<b>Villages</b>	Kawai
<b>Land type</b>	Barren and Stony Waste Land
<b>Geographical Co-ordinates</b>	24° 46' 14.62" N & 76° 44' 28.60" E.



Location Map

## METEROLOGICAL DATA

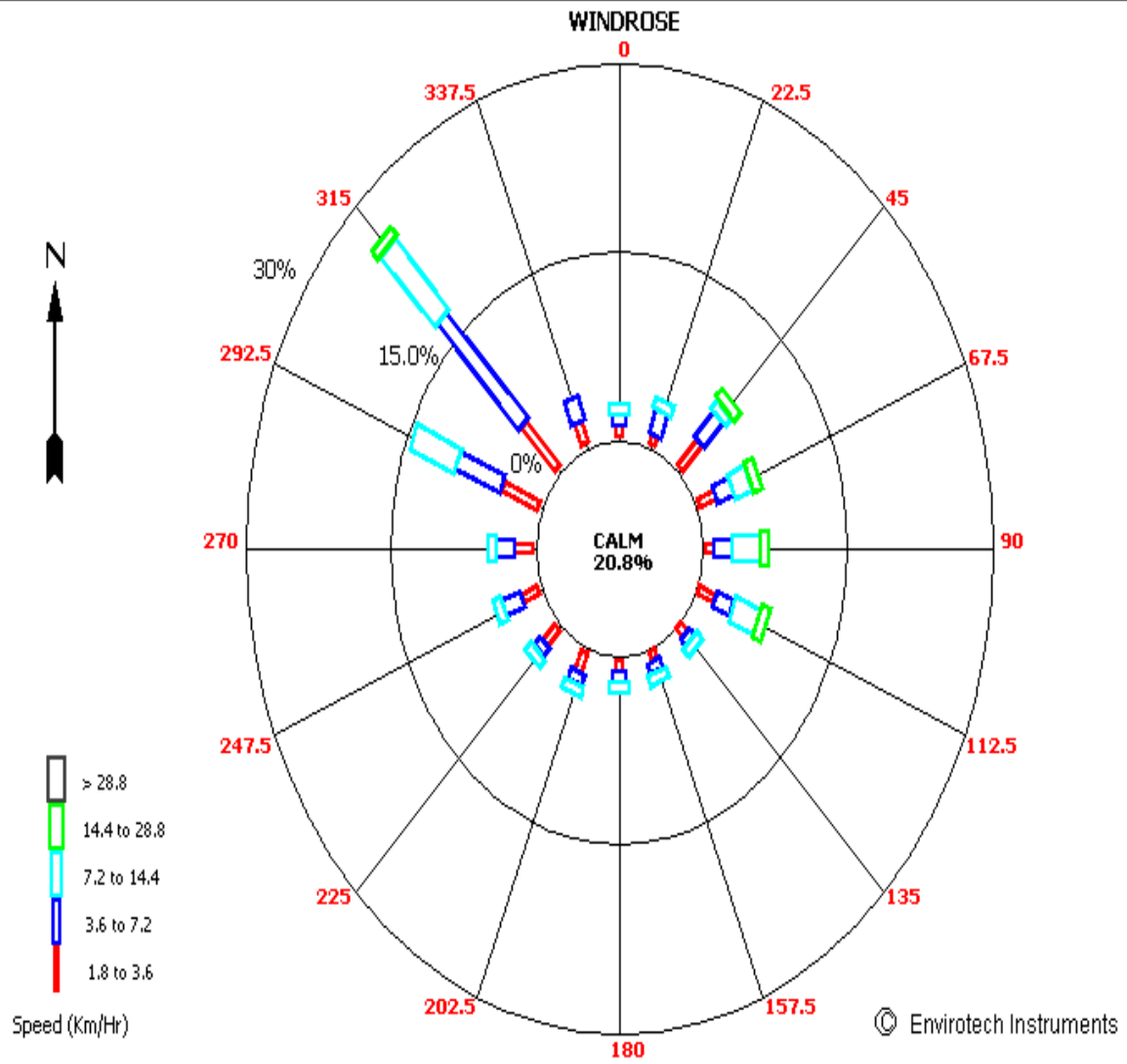
### AVERAGE DAILY METEROLOGICAL DATA OF APRIL-2023

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
2023-04-01	26.2	33.3	22.2	52.4	0
2023-04-02	21.1	35.0	27.0	66.0	0
2023-04-03	22.0	36.4	19.1	58.2	0
2023-04-04	23.1	35.5	24.2	46.4	0
2023-04-05	22.2	36.4	16.1	62.0	0
2023-04-06	23.0	37.4	17.0	43.0	0
2023-04-07	23.4	36.2	19.5	42.2	0
2023-04-08	25.3	38.5	18.2	46.3	6.5
2023-04-09	22.0	38.1	18.2	62.3	0
2023-04-10	23.0	38.1	12.1	49.6	0
2023-04-11	26.1	40.4	12.1	31.3	0
2023-04-12	26.1	41.0	15.0	31.3	0
2023-04-13	25.1	40.5	15.1	39.3	0
2023-04-14	25.5	41.5	15.3	42.1	0
2023-04-15	29.0	41.3	14.1	33.0	0
2023-04-16	27.4	41.5	14.2	33.5	0
2023-04-17	25.2	41.1	13.1	37.2	0
2023-04-18	26.1	42.3	12.2	33.2	0
2023-04-19	29.0	40.3	17.3	29.3	0
2023-04-20	27.5	40.0	14.0	37.0	0
2023-04-21	27.0	39.0	9.2	37.3	0
2023-04-22	24.2	39.2	10.0	27.5	0
2023-04-23	25.2	38.1	10.1	39.3	0
2023-04-24	23.0	36.4	15.0	52.1	0
2023-04-25	23.3	37.4	18.0	50.3	0
2023-04-26	23.2	39.3	25.2	75.0	11
2023-04-27	21.1	36.3	28.6	85.2	0
2023-04-28	24.2	38.1	22.2	68.2	0
2023-04-29	22.5	29.5	47.1	87.2	0
2023-04-30	22.5	29.5	47.1	87.4	0
<b>Min</b>	<b>29.0</b>	<b>29.5</b>	<b>9.2</b>	<b>27.5</b>	<b>25.5</b>
<b>Max</b>	<b>21.1</b>	<b>42.3</b>	<b>47.1</b>	<b>87.4</b>	

Time : 00:00 - 23:00

Set Title

Date : 01/04/23 - 30/04/23



## AVERAGE DAILY METEROLOGICAL DATA OF MAY-2023

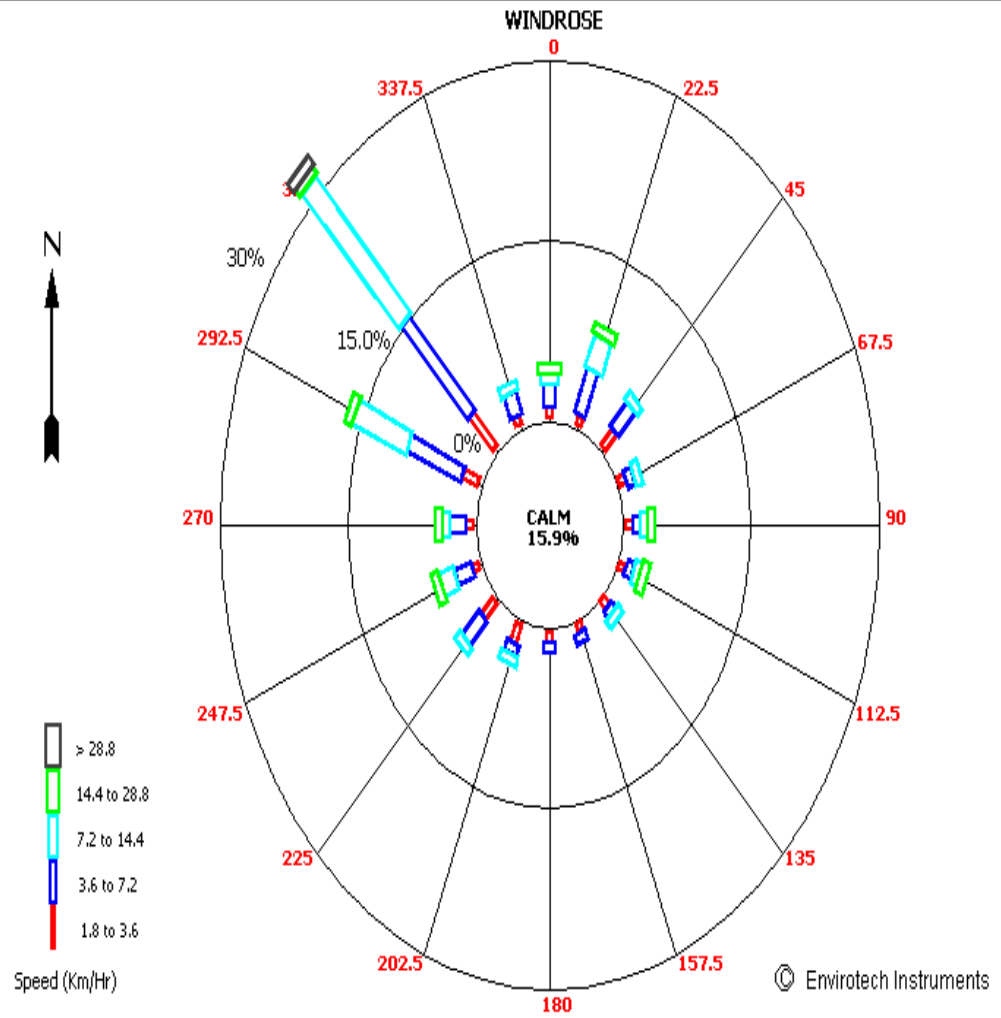
Date	Temp		Relative Humidity		Rainfall
	Min	Max	Min	Max	Total
2023-05-01	22.5	32.4	36.2	87.2	2
2023-05-02	23.2	35.2	32.3	86.3	0
2023-05-03	23.3	34.4	34.1	85.2	0
2023-05-04	22.0	36.3	29.0	89.0	0
2023-05-05	24.0	38.2	19.0	77.1	0
2023-05-06	26.1	40.0	20.0	59.0	0
2023-05-07	27.2	40.4	21.0	50.2	0
2023-05-08	28.2	41.4	14.5	51.1	0
2023-05-09	26.6	42.3	15.0	35.0	0
2023-05-10	25.5	42.1	9.0	31.5	0
2023-05-11	25.5	43.3	9.3	32.5	0
2023-05-12	26.5	43.6	9.1	28.1	0
2023-05-13	27.6	44.6	9.2	27.0	0
2023-05-14	31.1	44.3	13.1	24.2	0
2023-05-15	26.1	43.5	11.0	50.5	0
2023-05-16	30.2	43.1	15.0	37.2	0
2023-05-17	29.3	43.5	11.0	49.2	0
2023-05-18	30.2	41.5	18.1	36.5	0
2023-05-19	30.4	42.4	17.1	35.2	0
2023-05-20	29.0	44.0	13.0	33.5	0
2023-05-21	30.1	44.5	14.0	38.3	0
2023-05-22	30.9	43.1	16.7	39.4	0
2023-05-23	31.1	43.5	13.5	38.6	0
2023-05-24	31.0	42.2	17.1	39.1	0
2023-05-25	26.0	40.3	23.4	61.3	0
2023-05-26	23.0	39.3	28.1	69.3	0
2023-05-27	31.0	39.5	26.2	57.2	0
2023-05-28	23.0	34.2	34.1	89.2	18
2023-05-29	24.2	38.2	26.0	78.0	0
2023-05-30	23.0	40.1	17.6	86.2	8
2023-05-31	23.2	37.6	27.2	82.3	2
<b>Min</b>	<b>22.0</b>	<b>32.4</b>	<b>9.0</b>	<b>24.2</b>	<b>30</b>
<b>Max</b>	<b>31.1</b>	<b>44.6</b>	<b>36.2</b>	<b>89.2</b>	



Time : 00:00 - 23:00

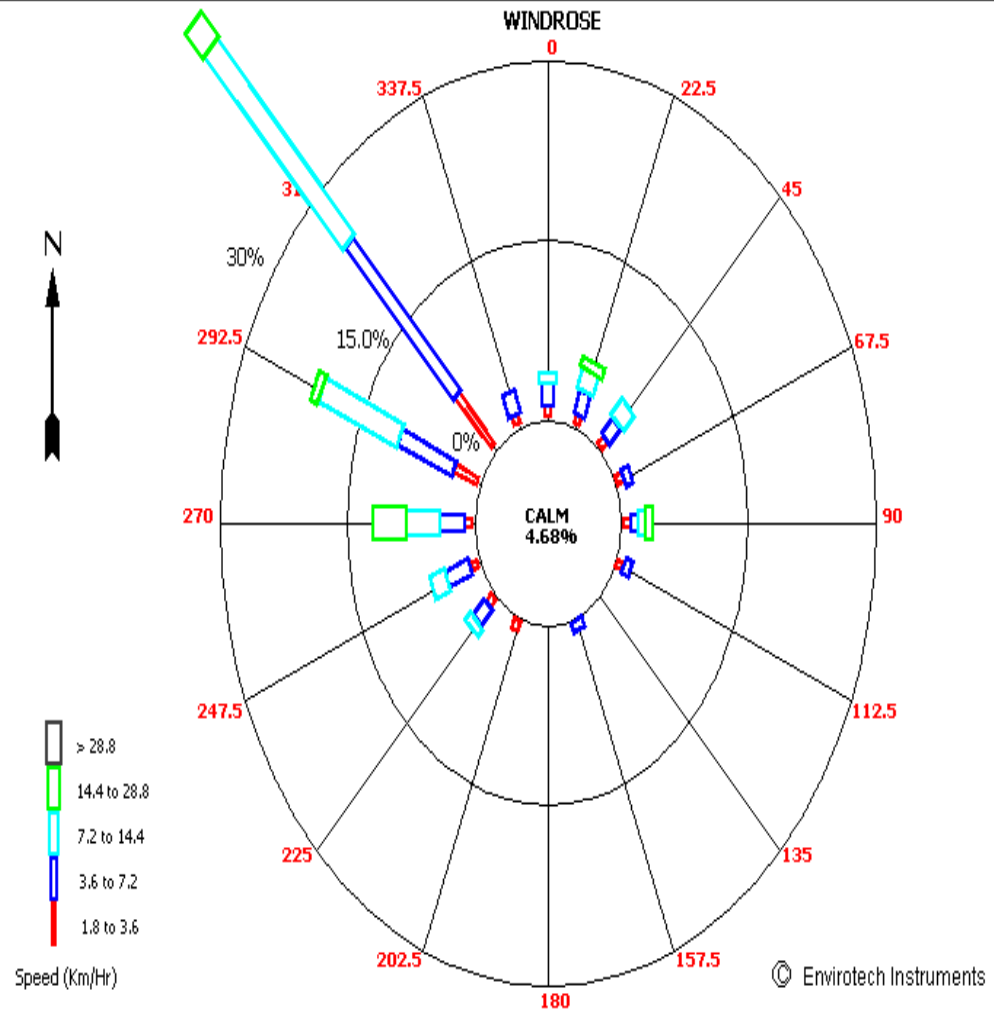
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Date : 01/05/23 - 31/05/23



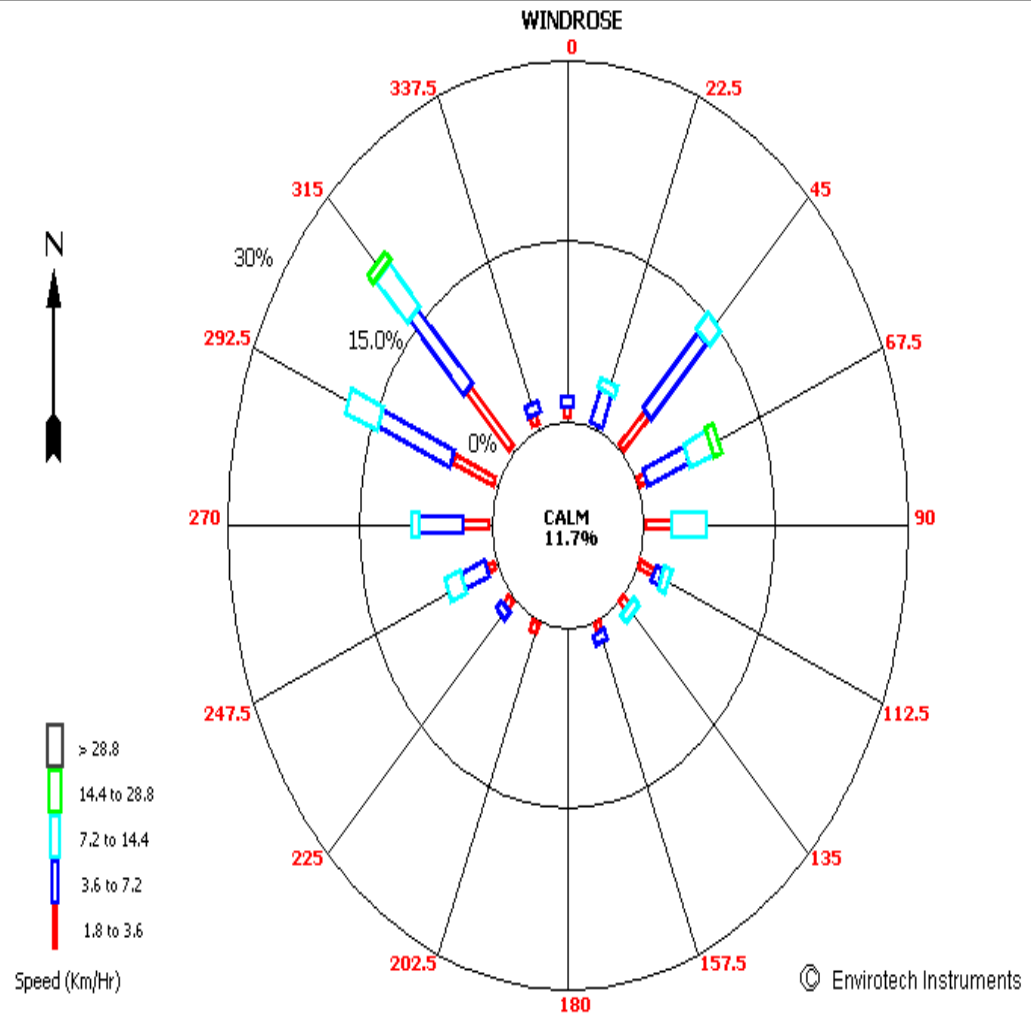
## AVERAGE DAILY METEROLOGICAL DATA OF JUNE -2023

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
2023-06-01	27.5	40.6	17.5	60.4	0
2023-06-02	29.1	40.4	25.0	55.0	0
2023-06-03	29.1	41.5	24.0	55.4	2
2023-06-04	26.0	37.6	28.3	67.2	0
2023-06-05	28.1	38.2	19.0	52.1	0
2023-06-06	26.0	42.1	19.0	67.2	0
2023-06-07	30.1	42.0	18.0	40.5	0
2023-06-08	30.0	41.4	23.1	46.0	0
2023-06-09	29.2	42.5	21.3	59.3	0
2023-06-10	31.0	42.3	20.0	50.1	0
2023-06-11	32.4	43.1	19.1	47.0	0
2023-06-12	32.1	42.3	23.4	48.0	0
2023-06-13	33.0	41.3	26.2	46.4	0
2023-06-14	31.0	40.2	30.1	56.0	0
2023-06-15	30.3	40.5	28.1	60.1	0
2023-06-16	31.1	40.4	29.0	54.0	0
2023-06-17	30.0	38.3	34.2	61.2	0
2023-06-18	29.1	34.6	47.2	66.3	0
2023-06-19	25.0	32.4	61.0	94.0	10.5
2023-06-20	27.0	35.1	54.4	88.1	0
2023-06-21	28.2	37.2	43.2	83.0	0
2023-06-22	28.0	35.2	49.1	88.0	0
2023-06-23	26.1	35.2	52.1	92.4	7
2023-06-24	28.1	37.3	47.5	88.1	2.5
2023-06-25	26.0	34.5	61.1	95.2	8
2023-06-26	26.0	34.1	60.4	97.3	18.5
2023-06-27	26.0	34.4	61.2	95.4	0
2023-06-28	27.5	34.4	59.3	91.1	0
2023-06-29	27.1	33.2	70.4	96.3	5
2023-06-30	27.0	30.3	78.5	93.1	0.5
<b>Min.</b>	<b>25.0</b>	<b>30.3</b>	<b>17.5</b>	<b>40.5</b>	<b>54</b>
<b>Max.</b>	<b>33.0</b>	<b>43.1</b>	<b>78.5</b>	<b>97.3</b>	



## AVERAGE DAILY METEROLOGICAL DATA OF JULY-2023

<i>Date</i>	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
2023-07-01	26.3	31.3	78.1	92.1	2.5
2023-07-02	26.0	32.2	73.6	92.4	28
2023-07-03	26.1	37.1	52.2	93.5	0
2023-07-04	28.0	37.2	50.2	91.0	0
2023-07-05	26.0	38.3	49.0	94.1	18.5
2023-07-06	28.0	36.3	56.5	93.2	0
2023-07-07	27.0	35.3	58.0	90.1	0
2023-07-08	27.2	33.3	67.6	93.0	1
2023-07-09	26.2	32.6	69.3	95.2	6
2023-07-10	26.2	34.1	65.3	97.0	3
2023-07-11	26.1	33.4	67.6	98.4	91
2023-07-12	27.0	35.0	60.1	93.3	12
2023-07-13	26.3	31.5	69.2	98.2	157.5
2023-07-14	26.7	33.5	67.2	94.0	0
2023-07-15	27.1	33.3	69.1	97.5	11.5
2023-07-16	26.1	32.0	76.5	98.4	0.5
2023-07-17	26.0	32.0	76.5	97.5	1.5
2023-07-18	27.0	31.4	80.1	95.4	20
2023-07-19	28.4	35.6	61.2	97.2	0
2023-07-20	29.1	37.5	53.3	89.5	0
2023-07-21	30.1	37.5	53.0	86.0	0
2023-07-22	28.2	34.3	28.2	34.3	11.5
2023-07-23	28.0	34.3	67.0	91.2	13.5
2023-07-24	28.2	34.3	67.6	95.4	1.5
2023-07-25	28.2	34.5	63.2	87.4	1
2023-07-26	28.0	35.2	59.1	92.3	0
2023-07-27	27.1	34.5	64.2	95.0	34.5
2023-07-28	27.0	32.4	74.0	97.3	9.5
2023-07-29	27.0	32.4	67.2	96.0	0
2023-07-30	26.1	31.5	75.0	97.4	43.5
2023-07-31	27.0	33.3	68.4	95.3	1
<b>Min.</b>	<b>26.0</b>	<b>31.3</b>	<b>28.2</b>	<b>34.3</b>	<b>469</b>
<b>Max.</b>	<b>30.1</b>	<b>38.3</b>	<b>80.1</b>	<b>98.4</b>	



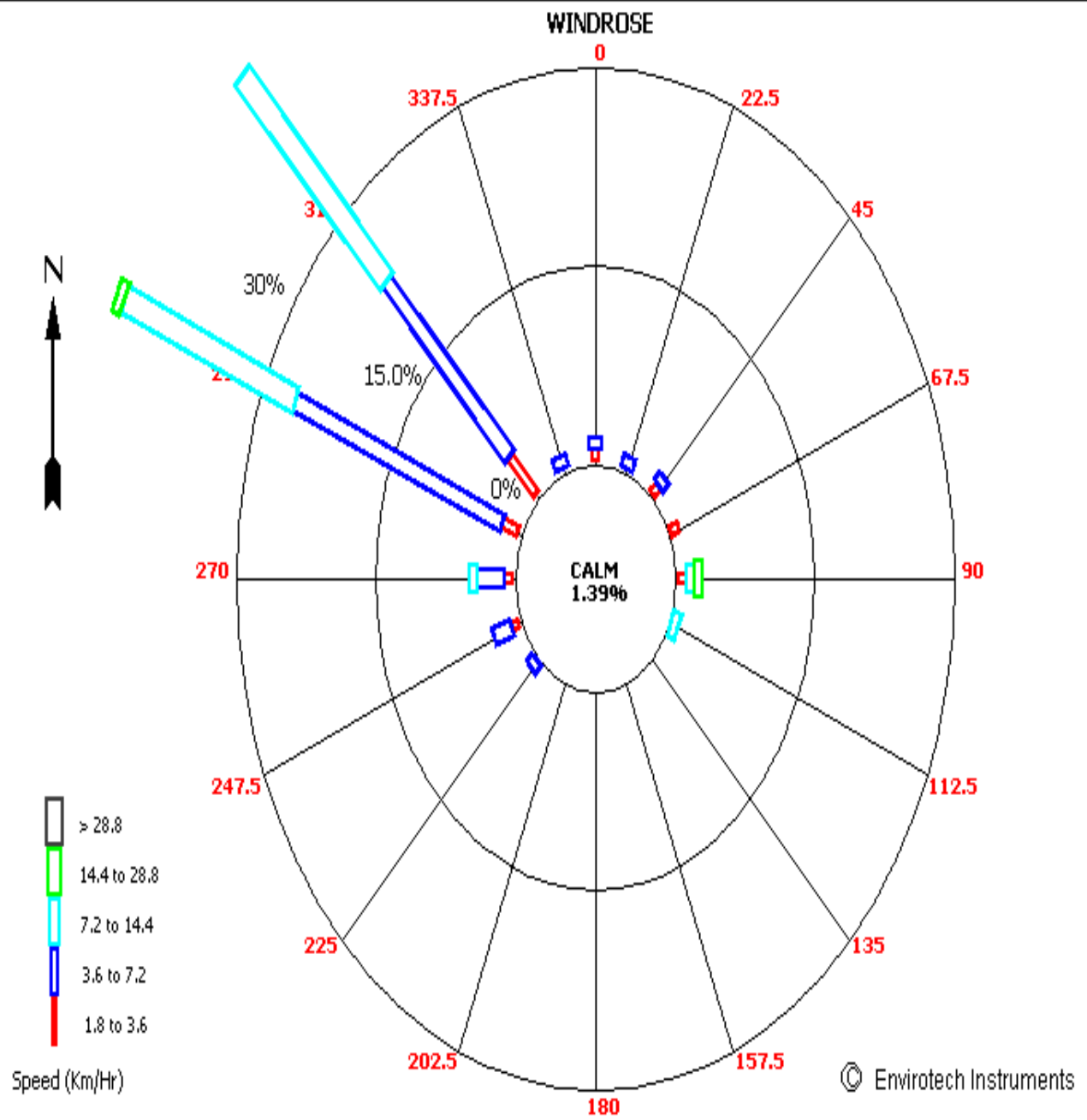
## AVERAGE DAILY METEROLOGICAL DATA OF AUGUST- 2023

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
2023-08-01	27.0	34.5	62.0	93.1	0
2023-08-02	27.0	32.3	73.6	94.6	12
2023-08-03	27.0	30.0	76.1	92.6	1
2023-08-04	26.1	29.0	84.5	96.2	2
2023-08-05	26.0	30.3	80.1	94.6	0
2023-08-06	27.1	32.4	63.2	93.1	0
2023-08-07	27.0	32.5	62.0	88.4	0
2023-08-08	25.2	32.3	62.1	91.1	0
2023-08-09	25.2	36.5	58.6	94.2	0
2023-08-10	25.2	33.2	58.1	92.1	0
2023-08-11	25.1	34.3	57.2	93.2	0
2023-08-12	26.0	32.5	61.3	89.2	0
2023-08-13	26.0	32.6	59.0	91.3	0
2023-08-14	26.1	31.6	65.0	90.5	0
2023-08-15	25.0	33.3	64.3	93.3	0
2023-08-16	27.2	32.5	66.0	88.0	0
2023-08-17	27.0	33.2	61.5	87.5	0
2023-08-18	27.0	32.0	67.4	88.4	0
2023-08-19	26.0	33.2	67.2	94.3	13.5
2023-08-20	26.0	34.4	62.5	98.5	82.5
2023-08-21	27.2	32.1	78.0	97.6	2
2023-08-22	27.0	32.5	75.0	95.5	0
2023-08-23	26.1	29.6	78.4	94.4	0
2023-08-24	25.2	32.5	66.3	94.5	0
2023-08-25	26.1	32.4	60.0	93.1	0
2023-08-26	26.0	33.6	54.0	90.6	0
2023-08-27	26.0	33.5	55.1	88.0	0
2023-08-28	26.0	33.2	52.4	87.5	0
2023-08-29	25.0	34.5	51.1	90.0	0
2023-08-29	24.2	35.4	47.2	92.4	0
2023-08-30	26.0	36.5	48.6	86.5	0
2023-08-31	26.1	29.6	78.4	94.4	0
<b>Min.</b>	<b>24.2</b>	<b>29.0</b>	<b>47.2</b>	<b>86.5</b>	<b>113</b>
<b>Max.</b>	<b>27.2</b>	<b>36.5</b>	<b>84.5</b>	<b>98.5</b>	

Time : 00:00 - 23:00

Date : 01/08/23 - 31/08/23

### WIND DIRECTION 01 SEPT 2023



## AVERAGE DAILY METEROLOGICAL DATA OF SEPTEMBER- 2023

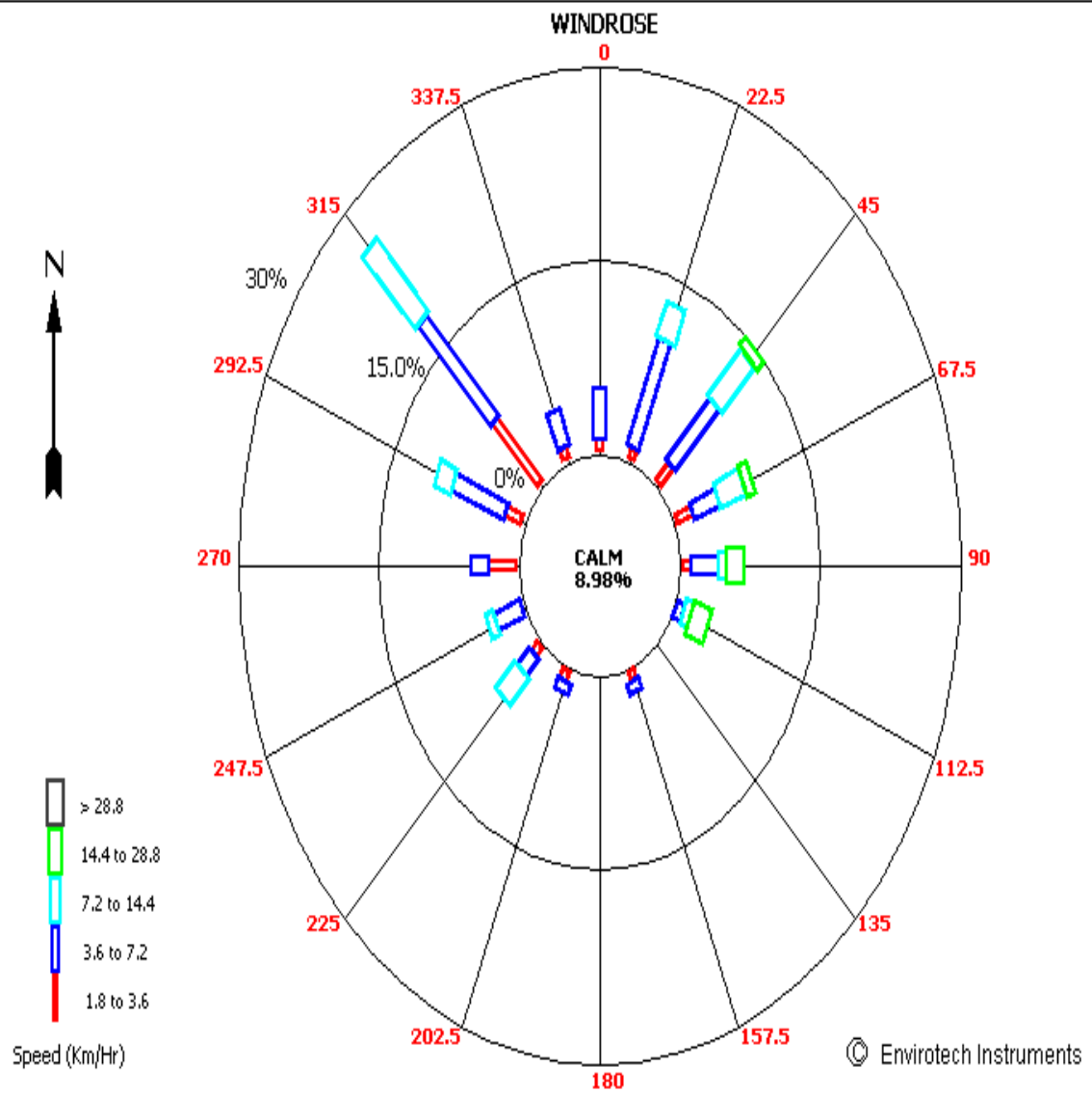
Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
2023-09-01	26.0	37.2	46.3	85.3	0
2023-09-02	28.0	37.1	46.0	79.2	0
2023-09-03	27.2	37.1	40.3	76.1	0
2023-09-04	27.2	38.2	36.0	81.2	0
2023-09-05	27.0	37.5	39.0	83.2	7
2023-09-06	26.0	33.3	61.0	93.4	8
2023-09-07	26.1	33.0	64.3	91.5	0
2023-09-08	26.1	33.0	64.1	91.0	0
2023-09-09	26.0	31.1	74.0	98.2	22.5
2023-09-10	26.0	34.3	58.4	98.3	0.5
2023-09-11	26.0	33.6	66.3	94.6	2
2023-09-12	25.2	30.6	77.5	98.1	26.5
2023-09-13	25.0	31.5	76.5	98.2	3.5
2023-09-14	26.0	31.2	75.3	96.5	0
2023-09-15	26.0	33.2	73.2	98.4	4
2023-09-16	26.0	30.0	76.3	95.6	4.5
2023-09-17	24.2	27.3	85.5	97.3	0
2023-09-18	24.2	31.3	68.0	98.1	2.5
2023-09-19	25.2	35.5	52.2	93.5	0
2023-09-20	26.0	36.2	49.0	93.6	0
2023-09-21	27.1	36.6	48.3	92.1	0
2023-09-22	27.0	34.5	60.3	92.3	5.5
2023-09-23	26.1	35.6	52.2	96.3	0
2023-09-24	26.1	35.4	53.6	91.2	0
2023-09-25	26.1	36.3	50.5	93.5	0
2023-09-26	26.3	36.2	46.1	92.5	0
2023-09-27	26.2	34.0	52.0	89.0	0
2023-09-28	27.1	38.1	33.2	85.0	0
2023-09-29	26.0	36.2	34.2	87.2	0
2023-09-30	24.1	38.1	24.2	80.4	0
<b>Min.</b>	<b>24.1</b>	<b>27.3</b>	<b>24.2</b>	<b>76.1</b>	<b>81.5</b>
<b>Max.</b>	<b>28</b>	<b>38.2</b>	<b>85.5</b>	<b>98.4</b>	



Time : 12:00 - 23:00

Date : 01/09/23 - 30/09/23

Set Title



#### 4 AMBIENT AIR QUALITY

Air quality monitoring is carried out to assess the extent of pollution, ensure compliance with national legislation, evaluate control options, and provide data for air quality modeling. There are a number of different methods to measure any given pollutant, varying in complexity, reliability, and detail of data.

The locations for monitoring stations depend on the purpose of the monitoring. Most monitoring networks are designed with human health objectives in mind, and monitoring stations are therefore established in population center.

The measurements were conducted during the period of **April-2023 to September 2023**

The air samples were analyzed as per the standard methods specified by Central Pollution Control Board (CPCB) and IS: 5182. The techniques used for ambient air quality monitoring are given in table as below:

**TABLE 4.1 TECHNICAL PROTOCOLS USED FOR AMBIENT AIR QUALITY MONITORING.**

S. No.	Parameter	Protocol Followed
1	Particulate Matter, PM <sub>10</sub> , µg/m <sup>3</sup>	IS: 5182 (P-23)
2	Particulate Matter, PM <sub>2.5</sub> , µg/m <sup>3</sup>	CPCB Guidelines (Gravimetric Method)
3	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-6)
4	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-2)
5	Carbon Monoxide, µg/m <sup>3</sup>	IS: 5182 (P-10)
6	Ammonia, µg/m <sup>3</sup>	CPCB Guidelines
7	Ozone, µg/m <sup>3</sup>	APHA 1977, Part819
8	Lead, µg/m <sup>3</sup>	IS: 5182 (P-22)
9	Arsenic, ng/m <sup>3</sup>	IS: 5182 (P-22)
10	Nickel, ng/m <sup>3</sup>	IS: 5182 (P-22)
11	Benzene, µg/m <sup>3</sup>	IS: 5182 (P-11)
12	Benzo-alfa-pyrene, ng/m <sup>3</sup>	CPCB Guidelines
13	Mercury (Hg), ng/m <sup>3</sup>	APHA 2012: 3112 B

#### 4.1 AMBIENT AIR QUALITY RESULTS

The detailed on-site monitoring results of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub> and Hg are presented in table as given below:

**TABLE 4.2: AMBIENT AIR QUALITY MONITORING RESULTS**

Quarter I (April- 2023 to June-2023)								
S. No.	Parameter	West of Stack (Near Coal Handling Plant)	Southeast of Stack (Near CT 2)	Northeast of Stack (Near Reservoir)	Sidni (Near Labour Colony)	Kawai Village	Mukhandpura	NAAQ Standard
1	Particulate Matter, PM <sub>10</sub> , µg/m <sup>3</sup>	76.33	70.17	79.64	68.77	73.28	71.22	100
2	Particulate Matter, PM <sub>2.5</sub> , µg/m <sup>3</sup>	39.87	43.20	40.16	37.24	33.66	39.62	60
3	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	17.82	20.08	18.79	21.08	24.67	23.57	80
4	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	6.02	7.73	7.06	6.78	7.64	8.12	80
5	Carbon Monoxide, mg/m <sup>3</sup>	0.8	0.9	0.6	0.8	0.6	0.8	4
6	Ammonia, µg/m <sup>3</sup>	3.39	2.86	3.52	2.85	2.68	3.01	400
7	Ozone, µg/m <sup>3</sup>	5.28	3.72	3.27	4.12	2.55	3.51	100
8	Lead, µg/m <sup>3</sup>	BLQ LOQ (0.0005)	BLQ LOQ 0.0005	BLQ (LOQ0.0005)	BLQ LOQ 0.0005)	BLQ LOQ (0.0005)	BLQ LOQ (0.0005)	1.0
9	Arsenic, ng/m <sup>3</sup>	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ0.5)	6.0
10	Nickel, ng/m <sup>3</sup>	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ0.5)	20
11	Benzene, µg/m <sup>3</sup>	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ1.0)	5.0
12	Benzo-alfa-pyrene, ng/m <sup>3</sup>	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ0.5)	1.0
13	Mercury (Hg), ng/m <sup>3</sup>	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ0.5)	-

Quarter II (July -2023 to September- 2023)								
S. No.	Parameter	West of Stack (Near Coal Handling Plant)	South East of Stack (Near CT 2)	North East of Stack (Near Reservoir)	Sidni (Near Labour Colony)	Kawai Village	Mukundpura	NAAQ Standard
1	Particulate Matter, PM <sub>10</sub> , µg/m <sup>3</sup>	74.1	65.3	76.9	70.2	69.6	73.4	100
2	Particulate Matter, PM <sub>2.5</sub> , µg/m <sup>3</sup>	37.5	41.6	38.1	41.5	35.8	36.5	60
3	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	20.40	18.41	20.65	19.52	20.73	21.70	80
4	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	5.83	6.00	6.71	7.53	6.71	5.41	80
5	Carbon Monoxide, µg/m <sup>3</sup>	0.6	0.5	0.8	0.5	0.6	0.9	4
6	Ammonia, µg/m <sup>3</sup>	2.34	2.64	2.04	2.63	2.53	2.34	400
7	Ozone, µg/m <sup>3</sup>	2.42	1.71	2.78	2.57	2.45	3.26	100
8	Lead, µg/m <sup>3</sup>	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)	1.0
9	Arsenic, ng/m <sup>3</sup>	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	6.0
10	Nickel, ng/m <sup>3</sup>	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	20
11	Benzene, µg/m <sup>3</sup>	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	5.0
12	Benzo-alfa-pyrene, ng/m <sup>3</sup>	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	1.0
13	Mercury (Hg), ng/m <sup>3</sup>	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	-

## 5 AMBIENT NOISE LEVEL

The measurements are done using the sound level meter. The results of the same are provided below. [Note: (i) The value is the Leq of ten readings taken in Day time and Nighttime.]

1. Day time shall mean from 6:00 am to 10:00 pm
2. Nighttime shall mean from 10:00 pm to 6:00 am.

**TABLE 5.1: NOISE MONITORING RESULTS [INDUSTRIAL AREA]**

<b>Quarter I (April-2023 to June-2023)</b>		
<b>Location</b>	<b>Day Time Leq in dB(A)</b>	<b>Night-Time Leq in dB(A)</b>
West of Stack (Near Coal Handling Plant)	60.8	47.5
Southeast of Stack (Near CT 2)	55.5	42.9
Northeast of Stack (Near Reservoir)	66.8	55.9

<b>Quarter II (July-2023 to September- 2023)</b>		
<b>Location</b>	<b>Day Time Leq in dB(A)</b>	<b>Nighttime Leq in dB(A)</b>
West of Stack (Near Coal Handling Plant)	64.0	50.7
Southeast of Stack (Near CT 2)	65.5	52.7
Northeast of Stack (Near Reservoir)	71.5	57.4

**TABLE 5.2: NOISE MONITORING RESULTS [RESIDENTIAL AREA]**

<b>Quarter I (April-2023 to June-2023)</b>		
<b>Location</b>	<b>Day Time Leq in dB(A)</b>	<b>Night-time Leq in dB(A)</b>
Sidni (Near Labour Colony)	53.4	42.5
Kawai Village	52.7	39.0
Mukhandpura	51.8	42.9

<b>Quarter II (July -2023 to September- 2023)</b>		
<b>Location</b>	<b>Day Time Leq in dB(A)</b>	<b>Night-time Leq in dB(A)</b>
Sidni (Near Labour Colony)	53.2	43.2
Kawai Village	53.9	42.0
Mukhandpura	54.2	40.0

**TABLE 5.3: NOISE MONITORING RESULTS [DG Set]**

<b>Quarter II (July-2023 to September- 2023)</b>			
<b>Parameter</b>	<b>DG Set-I</b>	<b>DG Set-II</b>	<b>DG Set-III</b>
Noise level 1 meter away from the acoustic enclosure surface (North)-5 minutes (dB(A).	72.7	72.5	72.6
Noise level 1 meter away from the acoustic enclosure surface (East)-5 minutes (dB(A).	73.1	72.0	73.1
Noise level 1 meter away from the acoustic enclosure surface (South)-5 minutes (dB(A).	72.6	72.6	72.6
Noise level 1 meter away from the acoustic enclosure surface (West)-5 minutes (dB(A).	72.0	73.1	72.1
Noise level 1 meter away from the acoustic enclosure surface (Top)-5 minutes (dB(A).	72.5	72.7	72.5

## 6 STACK

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Emission measurements are required to identify and quantify a wide range of pollutants in Stack Emissions. The measurements were conducted during the period of April 2023 to September 2023.

The parameters covered in the monitoring are depict below:

**TABLE 6.1 TECHNICAL PROTOCOLS USED FOR STACK EMISSION MONITORING**

S. No	Parameter	Units	Method of Test
1	Particulate Matter (PM)	mg/ Nm <sup>3</sup>	IS 11255 (P-1)
2	Sulphur dioxide (SO <sub>2</sub> )	mg/ Nm <sup>3</sup>	IS 11255 (P-2)
3	Oxide of nitrogen (NO <sub>x</sub> ),	mg/ Nm <sup>3</sup>	IS:11255 (P-7)
4	Carbon monoxide (CO)	%	IS:13270-1992
5	Mercury as particulate (Hgp)	µg/m <sup>3</sup>	USEPA-29

**TABLE 6.2: STACK MONITORING RESULTS**

S. No	Parameter	Unit	Quarter I (April-2023 to June-2023)	
			Unit-I	Unit-II
1	Exit Gas Velocity	m/sec	26.8	26.5
2	Flow Rate	Nm <sup>3</sup> /hr	33358	33032
3	Particulate Matter (PM)	mg/Nm <sup>3</sup>	38.90	41.51
4	Sulphur dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	641	654
5	Oxide of nitrogen (as NO <sub>x</sub> ) at 15 % O <sub>2</sub>	mg/Nm <sup>3</sup>	292	280
6	Mercury as particulate (Hgp)	mg/Nm <sup>3</sup>	BLQ (LOQ 0.001)	BLQ (LOQ 0.001)

S. No	Parameter	Unit	Quarter II (July- 2023 to September-2023)	
			Unit-I	Unit-II
1	Exit Gas Velocity	m/sec	23.7	26.3
2	Flow Rate	Nm <sup>3</sup> /hr	29868	32559
3	Particulate Matter (PM)	mg/Nm <sup>3</sup>	42.9	37.4
4	Sulphur dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	760	745
5	Oxide of nitrogen (as NO <sub>x</sub> ) at 15 % O <sub>2</sub>	mg/Nm <sup>3</sup>	271	357
6	Mercury as particulate (Hgp)	mg/Nm <sup>3</sup>	BLQ (LOQ 0.001)	BLQ (LOQ 0.001)



**TABLE 6.3: DG STACK MONITORING RESULTS**

Parameter	Unit	April- 2023 to September- 2023		
		DG Set-I	DG Set-II	DG Set-III
Particulate Matter (PM)	mg/Nm <sup>3</sup>	27.20	31.80	29.86
Oxide of Nitrogen (NO <sub>x</sub> ) at 15% O <sub>2</sub>	ppmv	20.83	23.20	22.28
Carbon monoxide (CO)	mg/Nm <sup>3</sup>	119	122	118
NMHC as C at 15% O <sub>2</sub>	mg/Nm <sup>3</sup>	32	35	37

## 7 WATER QUALITY RESULTS [GROUND/ SURFACE]

A number of parameters have been monitored in ground water and surface water at nearby villages of plant site.

The measurements were conducted during the period of April-2023 to September-2023. The parameters covered in the monitoring are depict below:

**TABLE 7.1.1: RESULTS OF GROUND WATER MONITORING**

Quarter I (April-2023 to June- 2023)									
S. No.	Parameter	Near Labour Colony SE (Piezometer)	Salpura Village	Kawai Village	Phoolbaroda Village	Nimoda Village	Sidni Village	Baldevpura Village	NW of Ash Dyke near Nimoda Railway station (Piezometer)
1	pH (at 25 °C)	7.54	7.57	7.28	6.90	7.96	7.14	7.82	7.07
2	Colour, Hazen	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
5	Total Dissolved Solids, mg/l	342	355	362	118	135	345	352	358
6	Total Hardness (as CaCO <sub>3</sub> ), mg/l	105	109	175	BLQ (LOQ 5.0)	34.9	163	159	109
7	Calcium (as Ca), mg/l	20.2	38.9	43.5	BLQ (LOQ1.0)	10.1	38.9	35.8	32.7
8	Magnesium (as Mg), mg/l	13.2	2.83	16.1	BLQ (LOQ 1.0)	2.36	16.1	17.0	6.61
9	Chlorides (as Cl <sup>-</sup> ), mg/l	60.7	73.8	65.9	19.1	19.1	48.8	51.4	43.5

10	Fluorides (as F) mg/l	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)
11	Sulphate (as SO <sub>4</sub> ), mg/l	25.0	9.25	10.1	2.51	3.32	6.09	13.6	19.3
12	Free Residual Chlorine mg/l	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ0.05)	BLQ (LOQ 0.05)	BLQ (LOQ0.05)	BLQ (LOQ0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)
13	Iron (as Fe), mg/l	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)
14	Total Chromium (as Cr), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
15	Arsenic (as As), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
16	Lead (as Pb), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
17	Cyanide (as CN) mg/l	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)
18	Mercury, mg/l	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)
19	Copper mg/l	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)
20	Manganese (as Mn) mg/l	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)
21	Nitrate (as NO <sub>3</sub> ) mg/l	BLQ (LOQ 0.5)	3.19	1.46	5.71	5.32	BLQ (LOQ 0.5)	1.40	1.54
22	Zinc (as Zn) mg/l	0.008	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	0.007
23	Cadmium (as Cd)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)
24	E coli MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25	Total coliform, MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

**Quarter II (July-2023 to September-2023)**

S. No.	Parameter	Near Labour Colony SE (Piezometer)	Salpura Village	Kawai Village	Phoolbaroda Village	Nimoda Village	Sidni Village	Baldevpura Village	NW of Ash Dyke near Nimoda Railway station (Piezometer)
1	pH (at 25 °C)	7.46	7.62	7.20	7.05	7.86	7.19	7.36	7.15
2	Colour, Hazen	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
5	Total Dissolved Solids, mg/l	336	340	356	136	130	336	372	344
6	Total Hardness (as CaCO <sub>3</sub> ), mg/l	91.1	115	162	11.9	41.6	170	103	123
7	Calcium (as Ca), mg/l	20.6	39.7	41.3	2.38	9.52	38.1	23.8	30.2
8	Magnesium (as Mg), mg/l	9.64	3.86	14.5	1.45	4.34	18.3	10.6	11.6
9	Chlorides (as Cl <sup>-</sup> ), mg/l	61.3	74.9	64.7	18.4	18.4	47.6	63	42.5
10	Fluorides (as F) mg/l	BLQ (LOQ 0.2)	BLQ (LOQ 0.2)	BLQ (LOQ 0.02)	BLQ (LOQ 0.2)	BLQ (LOQ 0.2)	BLQ (LOQ 0.2)	BLQ (LOQ 0.2)	BLQ (LOQ 0.2)
11	Sulphate (as SO <sub>4</sub> ), mg/l	31.5	8.32	8.98	2.13	5.01	8.71	32.9	22.2
12	Free Residual Chlorine mg/l	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)
13	Iron (as Fe), mg/l	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

		(LOQ 0.1)	(LOQ 0.1)	(LOQ 0.1)	(LOQ 0.1)	(LOQ 0.1)	(LOQ 0.1)	(LOQ 0.1)	(LOQ 0.1)
14	Total Chromium (as Cr), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
15	Arsenic (as As), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
16	Lead (as Pb), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
17	Cyanide (as CN) mg/l	BLQ (LOQ 0.02)	BLQ (LOQ 0.02)	BLQ (LOQ 0.02)	BLQ (LOQ 0.02)	BLQ (LOQ 0.02)	BLQ (LOQ 0.02)	BLQ (LOQ 0.01)	BLQ (LOQ 0.02)
18	Mercury, mg/l	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)	BLQ (LOQ0.0005)
19	Copper mg/l	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)
20	Manganese (as Mn) mg/l	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)
21	Nitrate (as NO <sub>3</sub> ) mg/l	BLQ (LOQ 0.5)	1.74	1.96	4.60	4.40	BLQ (LOQ 0.5)	BLQ (LOQ 0.5)	1.06
22	Zinc (as Zn) mg/l	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)	BLQ (LOQ0.005)
23	Cadmium (as Cd)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)	BLQ (LOQ0.001)
24	E coli MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25	Total coliform, MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

## 7.2 SURFACE WATER:

**TABLE 7.2.1: RESULTS OF SURFACE WATER MONITORING**

Quarter I (April-2023 to June-2023)				
S. No.	Parameter	Barlan Pond	Kawai Pond	Parvan River
1	pH (at 25 °C)	7.58	7.61	7.68
2	Odour	Agreeable	Agreeable	Agreeable
3	Colour, Hazen	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
4	Turbidity, NTU	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	<1.0
5	Total Dissolved Solids, mg/l	118	295	305
6	Calcium (as Ca), mg/l	9.33	31.1	21.8
7	Chlorides (as Cl <sup>-</sup> ), mg/l	15.2	29.6	39.6
8	Fluorides (as F) mg/l	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)
9	Free Residual Chlorine mg/l	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.1)
10	Iron (as Fe), mg/l	BLQ (LOQ 0.1)	51.27	BDL (<0.01)
11	Magnesium (as Mg), mg/l	1.89	17.0	8.50
12	Sulphate (as SO <sub>4</sub> ), mg/l	2.42	6.15	31.3
13	Total Hardness (as CaCO <sub>3</sub> ), mg/l	31.0	147	89.2
14	Cyanide (as CN) mg/l	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)	BLQ (LOQ 0.01)
15	Copper (as Cu) mg/l	BLQ (LOQ 0.005)	BLQ LOQ 0.005)	BLQ LOQ 0.005)
17	Manganese (as Mn) mg/l	BLQ (LOQ 0.005)	0.006	BLQ LOQ 0.005)
17	Nitrate (as NO <sub>3</sub> ) mg/l	5.80	1.05	4.81
18	Zinc (as Zn) mg/l	BLQ (LOQ 0.005)	0.04	BLQ (LOQ 0.005)
19	Cadmium (as Cd) mg/l	BLQ (LOQ 0.001)	BLQ LOQ 0.001)	BLQ LOQ 0.001)

20	Lead (as Pb), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
21	Mercury, mg/l	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)
22	Arsenic (as As), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
23	Total Chromium (as Cr) mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
24	E coli MPN/100ml	Absent	Absent	Absent
25	Total coliform, MPN/100ml	Absent	Absent	Absent

**Quarter II (July-2023 to September-2023)**

S. No.	Parameter	Barlan Pond	Kawai Pond	Parvan River
1	pH (at 25 °C)	7.49	7.60	7.58
2	Odour	Agreeable	Agreeable	Agreeable
3	Colour, Hazen	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
4	Turbidity, NTU	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
5	Total Dissolved Solids, mg/l	126	324	308
6	Calcium (as Ca), mg/l	10.3	25.4	38.1
7	Chlorides (as Cl <sup>-</sup> ), mg/l	16.3	35.7	40.8
8	Fluorides (as F) mg/l	BLQ (LOQ 0.2)	BLQ (LOQ 0.2)	BLQ (LOQ 0.2)
9	Free Residual Chlorine mg/l	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)	BLQ (LOQ 0.05)
10	Iron (as Fe), mg/l	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BDL (<0.1)
11	Magnesium (as Mg), mg/l	2.89	8.68	17.4
12	Sulphate (as SO <sub>4</sub> ), mg/l	3.73	35.5	4.41
13	Total Hardness (as CaCO <sub>3</sub> ), mg/l	37.6	99.0	166
14	Cyanide (as CN) mg/l	BLQ (LOQ 0.02)	BLQ (LOQ 0.02)	BLQ (LOQ 0.02)
15	Copper (as Cu) mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ LOQ 0.005)
17	Manganese (as Mn) mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ LOQ 0.005)

17	Nitrate (as NO <sub>3</sub> ) mg/l	5.29	4.10	4.81
18	Zinc (as Zn) mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
19	Cadmium (as Cd) mg/l	BLQ (LOQ 0.001)	BLQ LOQ 0.001)	BLQ LOQ 0.001)
20	Lead (as Pb), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
21	Mercury, mg/l	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)
22	Arsenic (as As), mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
23	Total Chromium (as Cr) mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
24	E coli MPN/100ml	Absent	Absent	Absent
25	Total coliform, MPN/100ml	Absent	Absent	Absent



## 8 STP WATER

The measurements were conducted during the period of April-2023 to September-2023. The parameters covered in the monitoring are depict below:

**TABLE 8.1: RESULTS OF STP WATER**

Quarter I (April-2023 to June-2023)											
S. No.	Parameter	45 KLD Adani Vidhayala New	10 KLD STP Near Service Building)	10 KLD STP Plant Canteen	45 KLD STP near Adani Vidhayala (Old)	120 KLD STP in Plant Premises	60 KLD Township New	10 KLD SN III Guest House	10KLD 3 BHK	60KLD STP in Township (Old)	10KLD Health centre
1	pH (at 25°C)	7.39	7.32	7.65	7.27	7.61	7.19	7.20	7.15	7.21	7.64
2	Total Suspended Solid (TSS) mg/l	21.0	18.0	9.0	36.0	21.0	39.0	<5.0	32.0	21.0	45.0
3	Nitrate Nitrogen mg/l	5.47	5.78	4.25	6.77	7.89	5.19	6.22	6.03	7.29	8.57
4	Ammonical Nitrogen (as NH <sub>3</sub> -N) mg/l	10.6	13.1	10.6	8.50	10.6	10.6	3.5	9.5	5.0	9.5
5	Biochemical Oxygen Demand (BOD) mg/l	6.5	13.5	11.5	11.5	6.5	14.5	5.5	9.5	6.5	16.0
6	Chemical Oxygen Demand (COD) mg/l	20.0	40.0	43.0	36.0	24.0	40.0	16.0	32.0	20.0	47.0
7	Sulphide (as S) mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
8	Total Kjeldahl Nitrogen mg/l	15.4	15.7	13.4	11.1	16.0	14.0	6.10	13.1	8.20	13.1
9	Oil & Grease mg/l	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
10	Free Available Chlorine mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
11	Bioassay Test	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% dilution	90% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent

Quarter II (July-2023 to September-2023)											
S. No.	Parameter	45 KLD Adani Vidhayala New	10 KLD STP Near Service Building)	10 KLD STP Plant Canteen	45 KLD STP near Adani Vidhayala (Old)	120 KLD STP in Plant Premises	60 KLD Township New	10 KLD SN III Guest House	10KLD 3 BHK	60KLD STP in Township (Old)	10KLD Health centre
1	pH (at 25 °C)	7.35	7.45	7.51	7.28	7.22	7.36	7.58	7.27	7.24	7.31
2	Total Suspended Solid (TSS) mg/l	30.0	16.0	11.0	46.0	28.0	28.0	41.0	<5.0	24.0	27.0
3	Nitrate Nitrogen mg/l	3.57	4.62	6.49	5.41	7.24	6.21	6.07	8.08	6.23	4.34
4	Ammonical Nitrogen (as NH <sub>3</sub> -N) mg/l	8.71	12.3	8.20	12.3	10.8	7.17	11.8	5.64	6.66	12.8
5	Biochemical Oxygen Demand (BOD) mg/l	13.8	11.8	5.9	13.3	8.0	12.5	12.8	5.0	4.8	7.2
6	Chemical Oxygen Demand (COD) mg/l	40.6	44.7	20.3	44.7	28.4	36.6	52.8	12.2	16.3	24.4
7	Sulphide (as S) mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
8	Total Kjeldahl Nitrogen mg/l	12.4	16.8	16.8	16.8	19.9	15.6	18.0	18.7	14.9	17.4
9	Oil & Grease mg/l	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
10	Free Available Chlorine mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
11	Bioassay Test	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% dilution	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent

## 9 ETP WATER

The measurements were conducted during the period of April-2023 to September-2023. The parameters covered in the monitoring are depict below:

**TABLE 9.1: RESULTS OF ETP OUTLET**

Quarter I (April-2023 to June-2023)			
S. No.	Parameter	Unit	Result
1	pH	-	7.64
2	Total Suspended Solids (TSS)	mg/l	18.0
3	Temperature	°C	25.2
4	Chemical Oxygen Demand (COD), mg/l	mg/l	36.0
5	Copper (as Cu), mg/l	mg/l	0.006
6	Iron (as Fe) mg/l	mg/l	BLQ (LOQ 0.1)
7	Zinc (as Zn) mg/l	mg/l	BLQ (LOQ 0.005)
8	Phosphate (as P), mg/l	mg/l	<0.1
9	Oil & Grease, mg/l	mg/l	<4.0
10	Sulphide (as H <sub>2</sub> S)	mg/l	<1.0
11	Free Available Chlorine	mg/l	<1.0

Quarter II (July-2023 to September-2023)			
S. No.	Parameter	Unit	Result
1	pH	-	7.58
2	Total Suspended Solids (TSS)	mg/l	21.0
3	Temperature	°C	25.9
4	Chemical Oxygen Demand (COD), mg/l	mg/l	40.6
5	Copper (as Cu), mg/l	mg/l	BLQ (LOQ 0.05)
6	Iron (as Fe) mg/l	mg/l	BLQ (LOQ 1.0)
7	Zinc (as Zn) mg/l	mg/l	BLQ (LOQ 0.05)
8	Phosphate (as P), mg/l	mg/l	BLQ (LOQ 0.1)
9	Oil & Grease, mg/l	mg/l	BLQ (LOQ 4.0)
10	Sulphide (as H <sub>2</sub> S)	mg/l	BLQ (LOQ 1.0)
11	Free Available Chlorine	mg/l	BLQ (LOQ 1.0)

## 10 ASH RECOVERY WATER

The measurements were conducted during the period of April-2023 to September-2023. The parameters covered in the monitoring are depict below:

**TABLE 10.1: RESULTS OF ASH RECOVERY WATER SAMPLE**

S. No.	Parameter	Units	Quarter I (April-2023 to June-2023)	
			Ash Recovery Pump House 1	Ash Recovery Pump House 2
1	Lead (as Pb)	mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
2	Arsenic (as As)	mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
3	Total Chromium (as Cr)	mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
4	Cadmium (as Cd)	mg/l	BLQ (LOQ 0.001)	BLQ (LOQ 0.001)
5	Mercury (as Hg)	mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)

S. No.	Parameter	Units	Quarter II (July 2023 to September-2023)	
			Ash Recovery Pump House 1	Ash Recovery Pump House 2
1	Lead (as Pb)	mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
2	Arsenic (as As)	mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
3	Total Chromium (as Cr)	mg/l	BLQ (LOQ 0.005)	BLQ (LOQ 0.005)
4	Cadmium (as Cd)	mg/l	BLQ (LOQ 0.001)	BLQ (LOQ 0.001)
5	Mercury (as Hg)	mg/l	BLQ (LOQ 0.0005)	BLQ (LOQ 0.0005)

## 11 FLY ASH [SILO]

The measurements were conducted during the period of April-2023 to September-2023. The parameters covered in the monitoring are depict below:

**TABLE 11.1: RESULTS OF FLY ASH SAMPLE**

Quarter I (April-2023-June-2023)				
S. No.	Parameter	Unit	Unit-I	Unit-II
1	Arsenic (As)	mg/kg	6.47	6.60
2	Mercury (Hg)	mg/kg	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
3	Lead as Pb	mg/kg	4.45	3.33
4	Total Chromium as Cr	mg/kg	4.29	3.80

**TABLE 11.2: RESULTS OF FLY ASH SAMPLE**

Quarter II (July 2023 to September-2023)				
S. No.	Parameter	Unit	Unit-I	Unit-II
1	Arsenic (As)	mg/kg	BLQ (LOQ 5.0)	BLQ (LOQ 5.0)
2	Mercury (Hg)	mg/kg	BLQ (LOQ 5.0)	BLQ (LOQ 5.0)
3	Lead as Pb	mg/kg	BLQ (LOQ 5.0)	BLQ (LOQ 5.0)
4	Total Chromium as Cr	mg/kg	BLQ (LOQ 5.0)	BLQ (LOQ 5.0)

## 12 SOIL

The measurements were conducted during the period of April-2023 to September-2023. The parameters covered in the monitoring are depict below:

**TABLE 12.1: RESULTS OF SOIL MONITORING**

S. No.	Parameter	Quarter I (April-2023 to June-2023)		
		Nimoda Village	Kawai Village	Phulbaroda Village
1	Ammonical Nitrogen (as N) mg/kg	408	309	291
2	Iron as Fe %	1.06	0.73	0.70
3	Manganese as Mn mg/kg	33.07	17.53	10.50
4	Boron (as B) mg/kg	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)	BLQ (LOQ 1.0)
5	Calcium (as Ca) %	1.79	2.96	1.87
6	Magnesium (as Mg) %	0.19	0.18	0.17
7	Potassium (as K) mg/kg	486.84	883.46	0.14
8	Phosphorus mg/kg	19.2	16.9	13.6

S. No.	Parameter	Quarter II (July-2023 to September -2023)		
		Nimoda Village	Kawai Village	Phulbaroda Village
1	Ammonical Nitrogen (as N) mg/kg	307	318	395
2	Iron as Fe %	0.64	0.63	0.65
3	Manganese as Mn mg/kg	BLQ (LOQ 10.0)	BLQ (LOQ 10.0)	BLQ (LOQ 5.0)
4	Boron (as B) mg/kg	BLQ (LOQ 10.0)	BLQ (LOQ 10.0)	BLQ (LOQ 5.0)
5	Calcium (as Ca) %	11.72	11.61	12.06
6	Magnesium (as Mg) %	1.32	1.31	1.36
7	Potassium (as K) mg/kg	908.04	899.22	934.28
8	Phosphorus mg/kg	19.1	28.3	27.0



**ADANI POWER LIMITED**  
**2X660 MW KAWAI THERMAL POWER PLANT**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date (DD/MM/YY)	UNIT 1	Unit 2
	PM (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )
2023-04-01 00:00:00	RSD	RSD
2023-04-02 00:00:00	RSD	RSD
2023-04-03 00:00:00	RSD	RSD
2023-04-04 00:00:00	RSD	RSD
2023-04-05 00:00:00	RSD	RSD
2023-04-06 00:00:00	RSD	RSD
2023-04-07 00:00:00	RSD	RSD
2023-04-08 00:00:00	RSD	RSD
2023-04-09 00:00:00	RSD	RSD
2023-04-10 00:00:00	RSD	RSD
2023-04-11 00:00:00	43.98	41.73
2023-04-12 00:00:00	15.3	41.86
2023-04-13 00:00:00	SD	42.18
2023-04-14 00:00:00	SD	42.2
2023-04-15 00:00:00	SD	41.93
2023-04-16 00:00:00	42.27	40.53
2023-04-17 00:00:00	43.6	40.69
2023-04-18 00:00:00	44.95	41.58
2023-04-19 00:00:00	45.11	41.63
2023-04-20 00:00:00	44.15	41.56
2023-04-21 00:00:00	43.76	41.61
2023-04-22 00:00:00	41.36	41.61
2023-04-23 00:00:00	34.64	41.88
2023-04-24 00:00:00	36.07	42
2023-04-25 00:00:00	40.76	41.86
2023-04-26 00:00:00	33.74	41.8
2023-04-27 00:00:00	SD	42.23
2023-04-28 00:00:00	SD	42.22
2023-04-29 00:00:00	SD	42.31
2023-04-30 00:00:00	SD	42.42
<b>Min</b>	<b>15.30</b>	<b>40.53</b>
<b>Max</b>	<b>45.11</b>	<b>42.42</b>
<b>Avg.</b>	<b>39.21</b>	<b>41.79</b>

SD – Shutdown  
RSD – Reserve Shutdown



**ADANI POWER LIMITED**  
**2X660 MW KAWAI THERMAL POWER PLANT**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date (DD/MM/YY)	UNIT 1	Unit 2
	PM (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )
2023-05-01 00:00:00	36.5	42.71
2023-05-02 00:00:00	SD	42.71
2023-05-03 00:00:00	SD	42.51
2023-05-04 00:00:00	SD	42.47
2023-05-05 00:00:00	SD	42.31
2023-05-06 00:00:00	SD	42.29
2023-05-07 00:00:00	SD	42.43
2023-05-08 00:00:00	SD	42.13
2023-05-09 00:00:00	SD	41.75
2023-05-10 00:00:00	SD	42
2023-05-11 00:00:00	SD	42.14
2023-05-12 00:00:00	SD	41.98
2023-05-13 00:00:00	SD	41.45
2023-05-14 00:00:00	SD	41.19
2023-05-15 00:00:00	SD	41.64
2023-05-16 00:00:00	40.5	41.34
2023-05-17 00:00:00	42.31	41.05
2023-05-18 00:00:00	44.25	41.08
2023-05-19 00:00:00	43.22	40.55
2023-05-20 00:00:00	42.38	39.22
2023-05-21 00:00:00	42.01	39.73
2023-05-22 00:00:00	40.46	39.44
2023-05-23 00:00:00	42.55	39.15
2023-05-24 00:00:00	35.13	40.22
2023-05-25 00:00:00	28.54	41.34
2023-05-26 00:00:00	34.58	41.87
2023-05-27 00:00:00	39.08	41.13
2023-05-28 00:00:00	34.63	40.33
2023-05-29 00:00:00	35.77	39.92
2023-05-30 00:00:00	35.69	35.14
2023-05-31 00:00:00	38.31	40.72
<b>Min</b>	<b>28.5</b>	<b>35.1</b>
<b>Max</b>	<b>44.3</b>	<b>42.7</b>
<b>AVG</b>	<b>38.6</b>	<b>41.1</b>

**ADANI POWER LIMITED**  
**2X660 MW KAWAI THERMAL POWER PLANT**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date (DD/MM/YY)	UNIT 1	Unit 2
	PM (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )
2023-06-01 00:00:00	36.91	39.73
2023-06-02 00:00:00	40.77	41.64
2023-06-03 00:00:00	39.74	41.36
2023-06-04 00:00:00	32.23	38.52
2023-06-05 00:00:00	41.61	41.36
2023-06-06 00:00:00	40.82	40.8
2023-06-07 00:00:00	38.68	40.09
2023-06-08 00:00:00	40.6	41.41
2023-06-09 00:00:00	37.9	40.82
2023-06-10 00:00:00	41.28	40.83
2023-06-11 00:00:00	37.61	40.33
2023-06-12 00:00:00	41.95	40.73
2023-06-13 00:00:00	43.02	40.83
2023-06-14 00:00:00	40.53	40.77
2023-06-15 00:00:00	40.71	SD
2023-06-16 00:00:00	40.88	SD
2023-06-17 00:00:00	32.19	SD
2023-06-18 00:00:00	30.14	SD
2023-06-19 00:00:00	SD	39
2023-06-20 00:00:00	SD	40.18
2023-06-21 00:00:00	SD	38.25
2023-06-22 00:00:00	38.81	37.99
2023-06-23 00:00:00	38.34	39.2
2023-06-24 00:00:00	37.91	39.37
2023-06-25 00:00:00	31.13	39.84
2023-06-26 00:00:00	35.89	41.42
2023-06-27 00:00:00	35.72	41.95
2023-06-28 00:00:00	38.21	42.05
2023-06-29 00:00:00	37.3	42.26
2023-06-30 00:00:00	33.95	42.34
<b>MIN</b>	<b>30.14</b>	<b>37.99</b>
<b>Max</b>	<b>43.02</b>	<b>42.34</b>
<b>AVG</b>	<b>37.96</b>	<b>40.50</b>

**ADANI POWER LIMITED**  
**2X660 MW KAWAI THERMAL POWER PLANT**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date (DD/MM/YY)	UNIT 1	Unit 2
	PM (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )
2023-07-01 00:00:00	SD	41.27
2023-07-02 00:00:00	SD	42.1
2023-07-03 00:00:00	SD	41.71
2023-07-04 00:00:00	SD	41.4
2023-07-05 00:00:00	SD	41.57
2023-07-06 00:00:00	SD	40.88
2023-07-07 00:00:00	SD	41.12
2023-07-08 00:00:00	SD	41.72
2023-07-09 00:00:00	SD	41.36
2023-07-10 00:00:00	SD	41.11
2023-07-11 00:00:00	SD	41.12
2023-07-12 00:00:00	SD	40.92
2023-07-13 00:00:00	SD	40.28
2023-07-14 00:00:00	SD	39.15
2023-07-15 00:00:00	SD	39.08
2023-07-16 00:00:00	SD	38.63
2023-07-17 00:00:00	SD	38.2
2023-07-18 00:00:00	SD	38.61
2023-07-19 00:00:00	SD	40.85
2023-07-20 00:00:00	SD	41.56
2023-07-21 00:00:00	SD	38.95
2023-07-22 00:00:00	SD	40.25
2023-07-23 00:00:00	SD	40.98
2023-07-24 00:00:00	SD	40.12
2023-07-25 00:00:00	SD	36.17
2023-07-26 00:00:00	SD	34.3
2023-07-27 00:00:00	SD	32.46
2023-07-28 00:00:00	SD	32.17
2023-07-29 00:00:00	28.46	34.17
2023-07-30 00:00:00	28.69	32.83
2023-07-31 00:00:00	31.01	35.55
<b>Min</b>	<b>28.5</b>	<b>32.2</b>
<b>Max</b>	<b>31.0</b>	<b>42.1</b>
<b>Avg.</b>	<b>29.4</b>	<b>39.1</b>

**ADANI POWER LIMITED**  
**2X660 MW KAWAI THERMAL POWER PLANT**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date (DD/MM/YY)	UNIT 1	Unit 2
	PM (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )
2023-08-01 00:00:00	28.5	35.15
2023-08-02 00:00:00	28.58	33.84
2023-08-03 00:00:00	28.77	34.24
2023-08-04 00:00:00	29.96	33.62
2023-08-05 00:00:00	30.97	34.15
2023-08-06 00:00:00	27.52	35.57
2023-08-07 00:00:00	24.57	37.96
2023-08-08 00:00:00	30.46	32.52
2023-08-09 00:00:00	35.83	33.47
2023-08-10 00:00:00	36.58	39.66
2023-08-11 00:00:00	36.45	40.92
2023-08-12 00:00:00	36.61	41.26
2023-08-13 00:00:00	33.92	36.48
2023-08-14 00:00:00	35.94	37.04
2023-08-15 00:00:00	36.72	37.85
2023-08-16 00:00:00	38.68	38.97
2023-08-17 00:00:00	39.34	36.9
2023-08-18 00:00:00	39.81	36.43
2023-08-19 00:00:00	40.77	34.63
2023-08-20 00:00:00	37.04	34.39
2023-08-21 00:00:00	37.99	32.71
2023-08-22 00:00:00	41.78	39.44
2023-08-23 00:00:00	36.38	36.42
2023-08-24 00:00:00	40.78	38.69
2023-08-25 00:00:00	37.3	38.09
2023-08-26 00:00:00	40.9	41.55
2023-08-27 00:00:00	33.82	39.09
2023-08-28 00:00:00	32.71	39.93
2023-08-29 00:00:00	43.91	40.16
2023-08-30 00:00:00	44.18	39.49
2023-08-31 00:00:00	43.89	38.46
<b>Min</b>	<b>24.6</b>	<b>32.5</b>
<b>Max</b>	<b>44.2</b>	<b>41.6</b>
<b>AVG</b>	<b>35.8</b>	<b>37.1</b>

**ADANI POWER LIMITED**  
**2X660 MW KAWAI THERMAL POWER PLANT**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date (DD/MM/YY)	UNIT 1 PM (mg/Nm <sup>3</sup> )	Unit 2 PM (mg/Nm <sup>3</sup> )
2023-09-01 00:00:00	43.61	SD
2023-09-02 00:00:00	44.39	SD
2023-09-03 00:00:00	42.92	SD
2023-09-04 00:00:00	42.63	SD
2023-09-05 00:00:00	43.42	SD
2023-09-06 00:00:00	44.15	SD
2023-09-07 00:00:00	44.7	SD
2023-09-08 00:00:00	42.89	SD
2023-09-09 00:00:00	39.72	SD
2023-09-10 00:00:00	37.85	SD
2023-09-11 00:00:00	35.14	SD
2023-09-12 00:00:00	35.59	SD
2023-09-13 00:00:00	33.1	SD
2023-09-14 00:00:00	35.94	SD
2023-09-15 00:00:00	30.7	SD
2023-09-16 00:00:00	31.02	SD
2023-09-17 00:00:00	32.21	SD
2023-09-18 00:00:00	20.83	SD
2023-09-19 00:00:00	SD	SD
2023-09-20 00:00:00	30.29	SD
2023-09-21 00:00:00	28.5	SD
2023-09-22 00:00:00	29.1	SD
2023-09-23 00:00:00	32.95	39.07
2023-09-24 00:00:00	35.39	32.66
2023-09-25 00:00:00	35.6	33.57
2023-09-26 00:00:00	38.24	34.98
2023-09-27 00:00:00	38.73	35.74
2023-09-28 00:00:00	40.91	35.73
2023-09-29 00:00:00	41.08	35.59
2023-09-30 00:00:00	42.27	36.24
<b>MIN</b>	20.83	32.66
<b>Max</b>	44.70	39.07
<b>AVG</b>	37.03	35.45

**ADANI POWER LIMITED****GROUND WATER LEVEL MONITORING RESULTS****LOCATION: Piezometric Wells Along with Ash Pond**

S. No.	Month & Year	Ground Water Table (BGL)		
		Location: 1	Location: 2	Location: 3
1.	April-2023	24.0 Meter	26.0 Meter	33.0 Meter
2.	May-2023	26.5 Meter	28.0 Meter	35.5 Meter
3.	June-2023	27.0 Meter	30.0 Meter	37.0 Meter
4.	July-2023	10.5 Meter	13.5 Meter	20.0 Meter
5.	August-2023	8.5 Meter	11.0 Meter	16.5 Meter
6.	September-2023	3.0 Meter	8.5 Meter	11.0 Meter

**Location 1:** South of Ash Pond (Nr. Labor Colony)

**Location 2:** East of Ash Pond (Nr. Ash Recovery Pump House)

**Location 3:** West of Ash Pond (Nr. Nimoda Railway Crossing)

**ADANI POWER LIMITED, KAWAI  
2x660 MW KAWAI THERMAL POWER STATION**

Annexure-III

<b>FLY ASH GENERATION AND UTILIZATION DETAILS FY 2023-24 (April 2023 to September 2023)</b>								
<b>Month</b>	<b>Total Ash Generation</b>	<b>Total ash utilized</b>	<b>ASH Utilized %</b>	<b>Fly ash For Cement manufacturing</b>	<b>Fly ash for Brick Manufacturers / Internal usage</b>	<b>Pond ash to PWD road work/Inside plant</b>	<b>Pond Ash For Brick Manufacturers</b>	<b>Pond Ash for Inside plant/Low Lying Areas</b>
	<b>MT</b>	<b>MT</b>	<b>%</b>	<b>MT</b>	<b>MT</b>	<b>MT</b>	<b>MT</b>	<b>MT</b>
Apr-23	92865	92943	100.08	51019	0	0	31024	10900
May-23	118597	118615	100.01	89417	250	0	22448	6500
Jun-23	140368	140590	100.16	117092	50	0	22748	700
Jul-23	90228	77372	85.75	77372	0	0	0	0
Aug-23	169931	120405	70.86	112005	0	0	0	8400
Sept-23	98218	75686	77.06	74886	0	0	0	800
<b>Total</b>	<b>710207</b>	<b>625611</b>	<b>88.99</b>	<b>521791</b>	<b>300</b>	<b>0</b>	<b>76220</b>	<b>27300</b>

**Greenbelt Details:**

Area (ha)	No. of Trees Planted	No. of Shrubs Planted
118.0	1,31,450	1,77,000

**PLANTED SPECIES IN AND AROUND PLANT PREMISES**

Sr. No.	Scientific Name	Common Name
<b>Tress</b>		
1.	<i>Azadirachta indica</i>	Neem
2.	<i>Bauhinia blakeana</i>	Kachnar
3.	<i>Callistemon viminalis</i>	Pink Bottle brush
4.	<i>Casuarina equisetifolia</i>	Saru/Casuarina
5.	<i>Delonix regia</i>	Gulmohar
6.	<i>Phoenix dactylifera</i>	Date Palm
7.	<i>Punica granatum</i>	Pomegranate
8.	<i>Emblica officinalis</i>	Amla
9.	<i>Eucalyptus hybrid</i>	Eucalyptus
10.	<i>Mangifera indica</i>	Aam/ Mango
11.	<i>Polyalthia longifolia</i>	Ashok/ False Ashok
12.	<i>Psidium guajava</i>	Guava
13.	<i>Syzygium cumini</i>	Jamun
14.	<i>Washingtonia filifera</i>	Washingtonia Palm
15.	<i>Wodyetia bifurcata</i>	Palm
16.	<i>Cassia seamia</i>	Cassia
17.	<i>Albizia lebeck</i>	Siris
18.	<i>Pongamia pinnata</i>	Karanj
19.	<i>Cordia longifolia</i>	Lasoor
20.	<i>Aegle Marmelos</i>	Bel
21.	<i>Dalbergia sissoo</i>	Shisham
22.	<i>Ficus religiosa</i>	Peepal
23.	<i>Cassia renigera</i>	Cassia
24.	<i>Parkinsonia sp.</i>	Parkinsonia
25.	<i>Cassia pinnata</i>	Amaltas
26.	<i>Alstonia scholaris</i>	Satparni
27.	<i>Citrus nobilis</i>	kinnow
28.	<i>Tectona grandis</i>	Teak
29.	<i>Olea europaea</i>	Olive
<b>Shrubs</b>		
30.	<i>Allamanda</i>	Yellow Bell
31.	<i>Bougainvillea spectabilis</i>	Bougainvillea/ Booganbel
32.	<i>Clerodendrum inerme</i>	Wild Jasmine
33.	<i>Cycas circinalis</i>	Cycas
34.	<i>Euphorbia milii</i>	Christ Thorn
35.	<i>Ficus panda</i>	Fig Tree
36.	<i>Hymenocallis caroliniana</i>	Spider Lily
37.	<i>Ixora hybrida</i>	Ixora
38.	<i>Jasminum molle</i>	Jui
39.	<i>Jatropha curcas</i>	Ratanjyot,
40.	<i>Nerium indicum</i>	Kaner
41.	<i>Nerium odoratum</i>	Kaner
42.	<i>Plumeria alba</i>	Champa
43.	<i>Tecoma</i>	Yellow Trumpetbush
44.	<i>Ziziphus mauritiana</i>	Ber/Bor/Indian plum





# Corporate Social Responsibility

## Adani Power Limited, Kawai

Six-month Report (April 2023- September 2023)

# Overview of Kawai Site

At present we are working in 28 villages, 14 Gram Panchayats, 1 Block of district Baran.  
8,475 household, 42,834 population , 32 Schools, 45 Aanganwadi's, 1 District Hospital, 2 CHC, and 2 PHC.

**Cluster details:** All 28 village divided in to 4 clusters.

## Cluster One ( Core Zone)

- Chatrapura
- Baldevpura
- Dhara
- Nimoda
- Khedligaddiyan
- Salpura
- Kawai
- Mukundpura

## Cluster Two ( Pipe Line Zone)

- Sodalehri
- Kharkhada  
Ramlothan
- Dadwara
- Bamori
- Chothonya
- Mytha
- Hatidilod
- Phoollbaroda
- Zarkhand

## Cluster Three (Anicut Area )

- Atru
- Aton
- Baldevpura  
(anicut)
- Kunjer

## Cluster Four ( Buffer Zone)

- Aamapura
- Bamapura
- Lolahedi
- Sindhani
- Haniheda
- Barla
- Khedli bansla

# Education

## **JNV coaching classes:**

- This Year 5 students have been selected at JNV, Baran.
- At APL we conduct an event and recognize to JNVST selected students.
- APL management handover gift to students and interacted with parents and teachers.
- Parents organize an event and share their feedback and shown gratitude towards Adani foundation.
- After counselling 34 parents get ready to take admission in Swami Vivekanand Govt. Model school Atru.
- After counselling 27 parents ready to retain and get admission in Mahatma Gandhi English medium schools.

## **JNV coaching for 2023-24:**

- Admission procedure started as JNVST circular released by Navodaya Vidyalaya Samiti.
- 3 coaching center started for JNVST @Govt. school Kawai, Govt. school Kharkhada Ramlothan and Adani Vidyalaya.
- Raksha-Bandhan and Birthday of our chairperson celebrated; Students shown creativity with beautiful Rakhis and greeting cards.
- Notebook, Pen and Snacks distributed to children under EVP-APL.

## **Sports training and competition:**

- Support to District level Volleyball tournament (14,17&19 year) at Govt, school Ratanpura Atru.- *792 beneficiary.*
- Support to State level Girls Football tournament (17 & 19 year) at Mahatma Gandhi Govt. school station road Baran.- *1648 beneficiary.*
- Support to selected 7 girl player from Govt. school Mukandpura in State level Kho-Kho tournament.
- Support to selected 5 player (4Girls- Kho-Kho, 1Boy- Kabbadi) from Govt. school Aton in State level tournament.
- Support to selected 10 girl player from Mahtma gandhi Govt. school Atru in State level Kabbadi tournament.

**Provide Cooking utensils to Govt. tribal residential school Kawai as collected from APL canteen.**

# Education



JNV students @Adani



Parents meeting for JNVST



New batch- JNVST 2023-24



Kawai batch- JNVST 2023-24



EVP- Snacks to students



District level Volleyball games



State level Football games



State level Girls Football



# Education ( Success story: JNV selected students)

## ❑ JNV Coaching Classes:

- It is pleasure movement to share that @Kawai under program JNV Coaching classes 2022-23, Total 5 children got selected in Jawahar Navodaya Selection Test from marginalized section of APL vicinity.
- At JNV Atru has total 80 seats in class six and which are filled with national level selection test called "JNVST" and all 80 seats divided into 8 blocks of Baran district. Seats allocation is based on reservation policy of JNV around 9 to 10 seats allotted to Atru block. For JNVST approx. 5000 children attempt the selection test where our coaching students secure 5 seats.
- Parents share their feedback towards coaching facilities and recognize the efforts of Adani foundation people feel secure because their children now will take Quality education with most renowned institute of Govt. of India. Students emotionally share their 6-month coaching experience where they learn and enjoy the tenure.



Gaurav meena-  
Kawai



Chandan jain-  
Kawai



Samiksh lodhi-  
Kawai



Ritika meena- Atru



Bhumikal- Sendhani

# Adani Vidyalaya, Kawai

## ➤ **Academic activities:**

- Adani Vidyalaya start new session 2023-24 with Saraswati pooja and welcome to students.
- Music classes were arranged for learning prayers and song on patriotism.
- Installed many indoor and outdoor equipment for Games and physical activity.
- Children participated in SOF exam and passed with flying colors. They were awarded with certificates and medals.
- Parents Teachers Meeting conducted. papers were shown to the parents.

## ➤ **Event celebration and extracurricular activities @ AVK:**

- Independence day celebrated at Adani Vidyalaya; flag hosting by Chief guest Sh. Pramod Saxena Station head –APL.
- Students of AVK perform various patriotic programs at Adani power plant Independence day celebration.
- Chairperson of Adani foundation Dr. Priti Adani madam Birthday celebrated at AVK.
- Teachers day celebrated at Adani Vidyalaya; students perform various activities and shown gratitude towards teachers.
- Hindi divas celebrated at Adani Vidyalaya.
- World Health Day was celebrated at AVK- A medical camp was organized for dental, eye and weight check-up of the students.
- An educative and interactive workshop on 'Good Touch and Bad Touch' was organized by AVK for safety and awareness of children.
- Students made posters for National Fire Service day and winners were awarded.
- Celebration of World Environment day: Various competition and a rally was organized by students for spreading awareness.
- Fathers' day celebrated at AVK: A fireless cooking competition was organized where children and fathers bonded over cooking activity.
- International Yoga day celebrated by AVK and arrange a Yoga session for all students.
- Orientation program conducted; wherein all the parents and teachers of respective classes gathered and discussed about smooth functioning of our academics and Non-academic.
- Rakhi making competition was conducted, and wonderful creations were witnessed.
- Shri Krishna Janmashthmi celebrated and students participated in various activities competition like- Pot, Flute making and decoration, kids dress-up as Shri Krishna and Radha.

# Adani Vidyalaya, Kawai



Parents orientation



Certificate to students



Teachers day celebration



Medical checkup @AVK



Shri Krishna Janmathmi



Workshop- Good-Bad touch



Independence day



Fire less cooking

# Community Health

## ➤ Mobile health care unit:-

- ❖ MHCU covered 28 villages in a week and provide doorstep health facilities to community.

Month	Village OPD			Other services					
	Male	Female	Total	School & other camp	Blood sugar testing	Blood Pressure testing	Referred cases	Home visits	Awareness session
April	1375	1183	2558	9	0	0	0	7	7
May	1490	1317	2807	10	13	87	0	7	11
June	1444	1232	2676	10	7	29	2	7	7
July	1776	1575	3351	13	7	22	0	5	7
August	1943	1178	3121	10	12	33	0	7	8
September	2156	1594	3750	15	7	13	3	7	12
<b>Total</b>	<b>10184</b>	<b>8079</b>	<b>18263</b>	<b>67</b>	<b>46</b>	<b>184</b>	<b>5</b>	<b>40</b>	<b>52</b>

## ➤ Other Health initiatives:-

- ❖ Conduct the Awareness session about Breast feeding on the occasion of “World Breast feeding Week” from 1<sup>st</sup> to 7<sup>th</sup> August 2023.
- ❖ Participate and support to Block level workshop on Population Day and No Tobacco day; APL- Station Head, HR Head, and CSR head interacted with health officials/ workers. More than 200 health workers were participated in workshop.



# Community Health



MHCU ongoing service



Home visit by MHCU



Home visit by MHCU



Awareness session



Awareness session



Attended health workshop



School health camp



Special Saturday camp

# Community Health (Case Study)

## Case Study

- Name – Dhanna Lal Meena
- Age - 70 years
- Site Name – Sodalhedi



**Dhannalal Meena** and his wife Kanya Bai are residents of Sodalhedi village.

Our MHCU visits this village on (Friday) weekly basis. Most of the population of the village is dependent on farming, Dhannalal is small farmer by occupation and owned one begha land in his village through which they have their livelihood. His annual income is about 20,000 Rs only. Her wife smt. Kanya bai who is housewife also dependent on him.

Dhannalal Meena has been a regular beneficiary of our MHCU from last 5 years, This patient was almost alright before 5-6 years then he started complaining of uncontrollable cough, shortness of breathing, chest tightness. Then they he visited govt district hospital Baran, there after checking and testing found diagnosed with asthma and receive medicine accordingly by suggestion of doctor. After his first hospital visit, he have been continuously visiting our MHCU last 5 years and getting advantage from this service regularly.

He is receiving Tablet Salbutamol 4 mg once daily along with montelukast 10 mg once daily. His symptoms of asthma are under controlled. This patient doesn't have any other significant medical and surgical illness. His wife Kanya bai who is suffering from osteoarthritis also receiving Ibuprofen 400 mg twice daily. Thus Dhannalal and his wife getting benefits regularly from MHCU van and fortunately their diseases are under control.

Our MHCU staff has been working tirelessly to deliver assistance to the most vulnerable and to the people in need as they reside remotely without any medical aid. This is an exemplary attempt of Adani Foundation for a better and healthy community. Our regular beneficiary and community people are very thankful of Adani foundation for this initiative for providing doorstep medical facility along with saving of time and money.

# Community Health (Case Study)

## Case Study

- **Name - Smt. Gopali Bai w/o Pannalal Nagar**
- **Age - 80 Years old**
- **Village - Khedli Bansla**



**Smt. Gopali Bai** w/o Pannalal Nagar is the residents of village khedli Basla, Tehsil - Atru, District - Baran. Khedli bansla is the one of village of our csr working village and mhcu site from our cluster- 4 core zone.

She lives with her widow daughter in law. his son has died before 5 years. They comes from a village where health infrastructures aren't adequate to meet the demand of needy peoples.

During mhcu site on Wednesday in this village before two month ago his widow daughter in law gave a history of falling from stairs her and complained of pain, stiffness, redness and swelling in left foot. Due to her inability to visit the MHCU & government hospital and no anybody responsible person in his family. our team visited her home and provided the treatment.

we also recommended her daughter in law for at least one hospital visit for radiological investigation/ X-RAY for further ruling out fracture of suspected accident but they could not go to the hospital due to lack of resources and responsible person.

Since last two months our MHCU team are regularly visiting this patient and giving treatment as available at our van. Now according to last visit of our MHCU team they found Smt Gopali Bai improvement in swelling and redness and she is feeling better.

Gopali bai and her family are very happy to our regularly home visit and treatment. There relatives and villagers are very thankful towards doorstep health services of Adani foundation. People saying its very important and helpful for needy community.

# Community Health (Case Study)

## Case Study

- **Name – Tulsiram Gurjar S/O Narayan Gurjar**
- **Age - 61 Years old**
- **Village - Khedli Bansla**



This patient is the one of our CSR working village & MHCU site from cluster - 4 core zone.

He is lives with son but his son never tack care of him. His source of income doing laboring. He taking medicine from our MHCU since last 5 years. His past medical history of severe persistent asthma, former smoker and allergic rhinitis & reported cough daily, reported wheeze and chest tightness occurring. He denied all night sleeping from asthma.

He is visiting MHCU Van regularly since last three years and taking advantage of the service and receiving Tab. Salbutamol 4mg twice daily & Montelukast 1HS.

In addition, he have been taking his controller medication therapies, including budesonide-formoterol, 160-4.5 micrograms, two puffs twice a day.

He denied any acute exacerbation since last 6 months & not using Inhaler anymore. His symptom of asthma are under control now and now he rarely complains chest tightness & wheezing. Tulsiram and community people are very thankful to Adani foundation for this doorstep healthcare initiative of MHCU.



# Sustainable Livelihood

## KAMDHENU: -

We are implementing cattle breed improvement programme since 2017 in 27 villages.

- ❖ 440 Cattle covered thru Artificial insemination in 1<sup>st</sup> six month, 2023-24.
- ❖ 158 new calf born in 1<sup>st</sup> six month, 2023-24.
- ❖ 230 cattle found pregnant 1<sup>st</sup> six month, 2023-24.
- ❖ 02 Calf rally organized at Kharkhara & Maytha village.

Sr. No.	Particular	Achievement till September 2023
1	Artificial Insemination	4843
2	Pregnant	2483
3	Calves	1767
4	Vaccination	7958



# Sustainable Livelihood

## **VRUKSH SE VIKAS –**

- Soil test for orchard & Vegetable development – 50 Farmers.
- Market linkages of vegetable @ Adani Shantigram.
- Fruiting started in existing Wadi.
- Pit digging completed by farmers; 5000 Plants and Fertilizer distributed to 80 farmers from 18 nearby villages.
- Farmers training conducted on Wadi management; total 112 farmers participated.
- Joint director agriculture and Deputy director Horticulture participated as chief guest in farmers training.

## **Institution Building –**

- 51 Village level meetings conducted during 1<sup>st</sup> six month, 2023-24.
- 1 meeting conducted for FPO board members.
- Exposure visit for installation of Bulk milk collection unit.
- 105 New shareholders involved in FPO, Now total 502 share holders in our “Hadoti Prageetsheel Producer Company Ltd.”
- Installation of Flour mill and selling wheat flour in market under FPO- HPPCL.
- Farmers training conducted on dairy development; total 100 farmers participated.

## **CEO- Adani power visit–**

- CEO- Mr. SB Khyalia visited to Dairy center and interacted with beneficiaries.
- CEO sir done the stone laying for BMC under our CSR initiative “Hadoti Prageetshil Producer Company Ltd.”
- Alongwith CEO Sir; Thermal Maintains head Mr. Brajesh singh, Thermal HR head Mr. Vijay Sinha, and Station head Mr. Pramod saxena were present.

# Sustainable Livelihood



Soil test for farmers



Fruit plant distribution



CEO-APL visit @ FPO



Market linkage for Vegetables



Monthly village level meeting



Farmers training



Exposure visit for BMC



Farmers training

# Blood donation drive

- 24th June the auspicious occasion Birthday of Hon'ble chairman Shri Gautam S Adani celebrated at APL Kawai.
- Total 573 blood unit collected voluntarily; 4 agencies involve in this blood donation drive.
- ADM- Mr. Satynarayan ameta, SDM- Mr. Dinesh meena, Block CMHO- Mr. JP Yadav visited and inaugurate the blood donation drive at APL kawai.
- Govt. dignitaries appreciate the effort of Adani foundation for Noble cause.
- All Adanian, partner organization and some nearby community people also participate for this successful event.



# Blood donation drive



Awareness rally @APL Kawai



Blood donation camp inauguration



Gift and certificate to blood donor



Participation from business partner



Appreciation certificate by blood bank



Group photo @ Blood donation drive









# Budget V/s Actual Half Yearly 2023-24

Sr No	Activities	Cost Centre	Internal Order	Proposed Budget F.Y.2023-24			Expenses till Sept -2023 (in Lacks)	% of utilization	Remarks
				Capex	Opex	Total			
A.	General Management and Administration	35004401		0.00	39.19	39.19	14.93	38.10%	
B.	Education	35004000		0.00	15.88	15.88	4.41	27.77%	
C.	Community Health	35004101		0.00	40.73	40.73	12.83	31.50%	
D.	Sustainable Livelihood Development	35004301		0.37	82.98	83.35	27.62	33.14%	
E.	Community Infrastructure Development	35004201		0.00	39.00	39.00	0.00	0.00%	
	<b>Total Budget:</b>			<b>0.37</b>	<b>217.78</b>	<b>218.15</b>	<b>59.79</b>	<b>27.41%</b>	





# From Gautam Adani to Gautambhai.

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# Thank You

**Power**

Ref: APL/PK/GOVT/RSPCB/00625

Date: 15.09.2023

To,

The Member Secretary

Rajasthan State Pollution Control Board,

4, Institutional Area, Jhalana Doongri,

Jaipur – 302004

Subject: **Environmental Statement for the Financial Year 2022-23.**

Ref: Consent to Operate Order No. 2019 - 2020/HDF/2773 dated 09.08.2019.

Dear Sir,

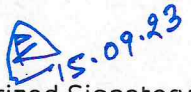
With reference to the above subject, kindly find enclosed herewith the Environmental Statement for financial year 2022-23, along with Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986, in respect of Kawai Thermal Power Station.

This is for your kind information and record please.

Thanking You,

Yours Sincerely,

**For Adani Power Limited, Kawai**

  
(Authorized Signatory)

Encl-As above

Cc: The Regional Officer  
Rajasthan State Pollution Control Board  
Room No. 345, to 347 Mini Secretariate  
Jhalawar – (Rajasthan)

**Adani Power Limited**  
NH 90, Atru Road  
Village Kawai, Tehsil Atru  
Baran 325 219  
Rajasthan, India  
CIN: L40100GJ1996PLC030533

Tel +91 744-27-78600  
www.adanipower.com

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad-382421



**ENVIRONMENT STATEMENT**

**FOR FINANCIAL YEAR**

**2022 - 2023**

**1320 (2×660) MW**

**KAWAI THERMAL POWER PLANT**

**Submitted to:**

**Rajasthan State Pollution Control Board**



*Submitted By:*

**adani**

Power

**ADANI POWER LIMITED, KAWAI**

**Village: Kawai, Taluka: Atru  
Baran, Rajasthan**

## ENVIRONMENTAL STATEMENT

**FORM V**  
(See Rule 14)

From:

**Adani Power Ltd. Kawai**

Village: Kawai, Taluka: Atru

District: Baran,

Rajasthan - 325 219

To:

**The Member Secretary,**

Rajasthan State Pollution Control Board,

4, Institutional Area, Jhalana Doongri,

Jaipur - 302 004

Environmental Statement for the financial year (April 2022 to March 2023)

### PART - A

- i) Name and address of the owner / occupier of the industry Operation or Process
- Name : Sh. Pramod Saxena (Station Head)
  - Address : NH-90, Atru Road, Village Kawai,  
Tehsil Atru, Distt. Baran 325219 (Rajasthan)
- ii) Industry category
- Primary- (STC Code) : 08AAGCA9379P1ZP (Large Scale Industry - Red Category)
  - Secondary- (SIC Code) : - NA
- iii) Production Capacity-Units : 1320 MW (2 x 660MW) Electricity Generation
- iv) Year of establishment :
- Unit#1** Commissioned on 28<sup>th</sup> May 2013  
**Unit#2** Commissioned on 31<sup>st</sup> December 2013  
(Consent to operate is valid up to 29.02.2024).
- v) Date of the last environmental statement submitted: **27.09.2022.**

### PART B

Water and Raw Material Consumption:

1. Water consumption **m<sup>3</sup>/d**

- a) Process : 917.5
- b) Cooling : 41900.8
- c) Domestic : 574.4



Name of Products	Process water consumption per unit of product output	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
	(1)	(2)
Power	2.28 KL/MWh	2.41 KL/MWh

## 2. Raw Material Consumption

Name of Raw Materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year (2021-22)	During the current financial year (2022-23)
(1) Coal	Power	581.84 gm/kwh	566.53 gm/kwh
(2) Fuel Oil	Power	0.05 ml/kwh	0.05 ml/kwh

\*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

## PART C

### Pollution discharged to environment / unit of output:

(Parameter as specified in the consent issued)

Sr. No.	Pollution	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)	Water	Nil	NA	NA
(b)	Air (Particulate Matter in mg/Nm <sup>3</sup> )	Unit#1: 2.49 TPD Unit#2: 2.21 TPD	Unit#1: 34.30 Unit#2: 30.89	Within Limit specified in CTO

- **Water-** No discharge of wastewater. Plant is designed on Zero Discharge concept.

**Note-** 100% effluent is treated and recycled back. Hence, there is no discharge of effluent in the environment.

## PART - D

### Hazardous Wastes:

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016).

Sr. No.	Hazardous Wastes	Total Quantity	
		During the previous financial year (2021-22)	During the current financial year (2022-23)
a)	From Process <ul style="list-style-type: none"><li>Used/Spent Oil</li></ul>	<ul style="list-style-type: none"><li>24,592 KL (Generated)</li><li>23,717 KL (Disposed)</li><li>1,037 KL (Balance)</li></ul>	<ul style="list-style-type: none"><li>18,597 KL (Generated)</li><li>19,259 KL (Disposed)</li><li>0.38 KL (Balance)</li></ul>
	<ul style="list-style-type: none"><li>Discarded Containers</li></ul>	<ul style="list-style-type: none"><li>117 Nos. (Generated)</li><li>115 Nos. (Sold Out)</li><li>06 Nos. (Balance)</li></ul>	<ul style="list-style-type: none"><li>96 Nos. (Generated)</li><li>0 Nos. (Sold Out)</li><li>102 Nos. (Balance)</li></ul>
b)	From pollution control facilities	NA	NA

## PART - E

### Solid Wastes:

Sr. No.	Solid Wastes	Total Quantity (Tons)	
		During the previous financial year (2021-22)	During the current financial year (2022-23)
a)	From Process (Bottom Ash)	3,63,740 (Disposed to Bricks manufacturers)	2,45,338 MT (Disposed to Bricks manufacturers)
b)	From pollution control facilities (Ash from ESP)	10,22,481 MT (Dispose to Cement manufacturer)	10,17,371 MT (Dispose to Cement manufacturer)
c)	Quantity recycled or re-utilized within the unit recycled or re-utilized		
	Disposal in reclamation of low-lying area within Plant premises	1,78,600 (In reclamation of low-lying area within Plant premises)	1,17,940 MT (In reclamation of low-lying area in Plant premises)



## PART - F

**Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

- Hazardous waste (Used/Spent oil) is being sold to authorized recyclers.  
(Please Refer Part - D for Hazardous waste generation and disposal)
- Fly Ash utilized by following Industries.
  - ACC Ltd.
  - Ambuja Cement Ltd.
  - Birla Corporation Ltd.
  - DCM Shriram Ltd.
  - JK Cement Ltd. Mangrol
  - JK Cement Ltd. Nimbahera
  - JK Lakshmi Cement Ltd.
  - Jagdish Jindal & Company
  - Karnee Enterprises
  - Mangal Road lines
  - Nuvoco Vistas Corporation Ltd.
  - Shri Ishwardas Transport
  - Udaipur Cement Works Ltd.
  - Ultratech Cement Ltd.
  - Ultratech Nathdwara Cement Ltd.
  - Wonder Cement Ltd.
  - Vardhman Transporter
  - Dev Agency
  - Kalpataru Enterprise

## PART - G

**Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.**

- Kawai Thermal Power Station of Adani Power Limited is based on super critical technology of power generation, which is cost effective and reduce the consumption of both natural resourced raw materials, Water & Coal.
- The stack emissions from the plant are controlled by high efficiency Electrostatic Precipitator (ESP).
- Chimney of 275 m height is constructed.
- Other pollution control equipment's like Dust Extraction System & Dust Suppression System are installed at various material transfer points to control fugitive emissions.
- Real time monitoring system for both EQMS & CEMS installed as per the direction of CPCB/RSPCB issued, under Air & Water Act.

- Utilization of rainwater collected during monsoon from rainwater harvesting pond.
- Recycling and reusing of treated water in plant operation.
- Organic waste is being utilized in organic waste converter machine to further manure development.
- Wastepaper is being recycled through paper recycling machine.

#### **PART - H**

#### **Additional measures/investment proposal for environmental protection including abatement of pollution.**

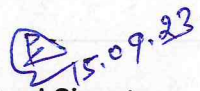
- Installation of Flue Gas Desulphurization (FGD) unit to reduce SO<sub>2</sub> emission as per CPCB direction.

#### **PART - I**

#### **Miscellaneous**

Any other particulars in respect of Environmental Protection and abatement of pollution.

1. 1,20,812 trees and 1,76,000 shrubs planted up to financial year 2022-23 with 90% survival. Regular plantation is being carried out within plant premises.
2. Ambient air quality monitoring by RDS & Fine Particulate Sampler is carried out at 3 locations within plant premises as per CPCB guidelines.
3. Continuous Ambient Air Quality Monitoring carried out at 3 locations within the plant premises.
4. Continuous Emission Monitoring System is installed and under operation at 80 m height in both the flue cane of 275 m Chimney.
5. Ambient noise levels are being monitored at 10 identified locations within the plant premises.
6. Integrated Management System implemented (QMS as per ISO 9001:2015, EMS as per ISO 14001:2015, OH&S as per ISO 45001:2018, EnMS as per ISO 50001:2018 & WEMS as per 46001:2019) is implemented at Kawai Thermal Power Station and certified by TUV NORD CERT GmbH
7. Good housekeeping is maintained in and around the plant area. 5S initiative is taken up at Kawai Thermal Power Station.
8. Harness of solar energy is introduced by installation of Solar Street Light.
9. CTO compliance report is being submitted to RSPCB on quarterly basis.
10. EC Compliance report is being submitted to RSPCB/MoEF&CC on six monthly basis.
11. 5S Implementation for waste minimization
12. Single use plastic is banned in plant premises.
13. Environment Monitoring is being carried out by MoEF&CC & RSPCB approved Environment Laboratory on quarterly basis.

  
**Authorized Signatory  
 (Adani Power Limited)**





National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**ENVIRONMENTAL LABORATORY, ADANI POWER  
RAJASTHAN 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

VILLAGE: KAWAI, ATRU, BARAN, RAJASTHAN, INDIA

in the field of

**TESTING**

Certificate Number: TC-5235

Issue Date: 29/03/2023

Valid Until:

28/03/2025

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](http://www.nabl-india.org))

Name of Legal Identity : ADANI POWER RAJASTHAN LIMITED

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer

# Adani Power Limited, Kawai

## Annexure-VIII

<b>Expenditure for Environmental Protection &amp; CSR</b>		
(Fig. in Rs. Lacs)		
<b>Sr. No.</b>	<b>Particular</b>	<b>Expenditure from (April'2023 to September'2023)</b>
1.	Rural Development/CSR Activities (Education, community health, Sustainable Livelihood, community Infrastructure development etc.)	59.79
2.	Green belt Development (Horticulture)	46.0
3.	Legal, Consent fees	40.09
4.	Third party monitoring, Services and Equipment & Instruments maintenance, Communication cost.	9.1
5.	Insurance, training, and external environmental Management (IMS)	1.56
6.	Cost involved in emission treatment and disposal (AHP, ETP, CHP etc.)	1236.75
<b>Total</b>		<b>1393.29</b>



भारत सरकार

भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce &amp; Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum &amp; Explosives Safety Organisation (PESO)

आम्रपाली सर्कल, पावर हाउस के पास, वैशाली नगर

जयपुर- 302021

Amrapali Circle, Near Power House, Vaishali Nagar,  
Jaipur - 302021E-mail : [dyccejaipur@explosives.gov.in](mailto:dyccejaipur@explosives.gov.in)

Phone/Fax No : 0141 - 2356731,2356781

संख्या /No. : P/HQ/RJ/15/2337 (P295058)

दिनांक /Dated : 30/12/2022

सेवा में

/To,

M/s. M/s Adani Power Rajasthan Limited.,,  
Kawai Thermal Power Project Near Salpura Railway S,  
Kawai,  
Kawai,  
Taluka: Atru,  
District: BARAN,  
State: Rajasthan  
PIN: 325219

विषय

/Sub :

Plot No, Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai, Teh-Atru,, Antah, Taluka: Atru, District:  
BARAN, State: Rajasthan, PIN: 325219 में स्थित विद्यमान पेट्रोलियम वर्ग B,C अधिष्ठापन में अनुज्ञप्ति सं P/HQ/RJ/15/2337 (P295058) के  
नवीकरण के संदर्भ में ।  
Existing Petroleum Class B,C Installation at Plot No, Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai,  
Teh-Atru,, Antah, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 - Licence No. P/HQ/RJ/15/2337 (P295058) -  
Renewal regarding.

महोदय

/Sir(s),

कृपया आपके पत्र क्रमांक OIN1245678 दिनांक 26/12/2022 का अवलोकन करें ।

Please refer to your letter No.: OIN1245678, dated 26/12/2022

अनुज्ञप्ति संख्या P/HQ/RJ/15/2337 (P295058) दिनांक 16/04/2019 को दिनांक 31/12/2032 तक नवीनीकृत कर इस पत्र के साथ अग्रहित की जा  
रही है ।

Licence No. P/HQ/RJ/15/2337 (P295058) dated 16/04/2019 is forwarded herewith duly renewed upto 31/12/2032.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें । अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को  
अनुज्ञप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेषित करें ।

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

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((डॉ. जी. के. पाण्डे))

(Dr. G. K. PANDEY)

विस्फोटक नियंत्रक

Controller of Explosives

कृते उप मुख्य विस्फोटक नियंत्रक

For Dy. Chief Controller of Explosives

जयपुर/Jaipur

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

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

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

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

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

अनुज्ञप्ति सं. (Licence No.) : P/HQ/RJ/15/2337(P295058)

फीस रूपए (Fee Rs.) 56250/- per year

M/s. M/s Adani Power Rajasthan Limited., Kawai Thermal Power Project Near Salpura Railway S, Kawai, Kawai, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 7075.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/RJ/15/2337(P295058) तारीख 07/07/2017 जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. M/s Adani Power Rajasthan Limited., Kawai Thermal Power Project Near Salpura Railway S, Kawai, Kawai, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 valid only for the importation and storage of 7075.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/RJ/15/2337(P295058) dated 07/07/2017 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2032 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2032

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	75.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	7000.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	7075.00 KL

December 4, 2012

Chief Controller of Explosives

1). Amendment dated - 16/04/2019

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

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टियां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Plot No: Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai, Teh-Atru,, Antah, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 1 Above Ground tank(s) for CLASS B , 4 Above Ground tank(s) for CLASS C सम्मिलित हैं।

The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai, Teh-Atru,, Antah, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 and consists of 1 Above Ground tank(s) for CLASS B , 4 Above Ground tank(s) for CLASS C together with connected facilities.

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अनुज्ञप्ति संख्या-(Licence No.) P/HQ/RJ/15/2337 (P295058)

**नवीनीकरण के पृष्ठांकन के लिए स्थान**  
**SPACE FOR ENDORSEMENT OF RENEWALS**

<p>पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.</p>	<p>नवीकरण की तारीख Date of Renewal</p>	<p>समाप्ति की तारीख Date of Expiry of license</p>	<p>अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.</p>
1).	16/12/2013	31/12/2016	<p>Sd/- Dr. Yogesh khare Jt. Chief Controller of Explosives For Dy. Chief Controller of Explosives Jaipur</p>
2).	22/11/2016	31/12/2019	<p>Sd/- Nitin Goyal Dy. Controller of Explosives For Dy. Chief Controller of Explosives Jaipur</p>
3).	09/01/2020	31/12/2022	<p>Sd/- Dr. G. K. PANDEY Controller of Explosives For Dy. Chief Controller of Explosives Jaipur</p>
4).	30/12/2022	31/12/2032	<p>Dr. G. K. PANDEY Controller of Explosives For Dy. Chief Controller of Explosives Jaipur</p>

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

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

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