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Power

Ref: APL/APRL/EMD/EC/MoEFCC/241/11/21
Date: 21/11/2021

To,

Additional Principal Chief Conservator of Forest (APCCF)
Ministry of Environment, Forest and Climate Change
Regional Office (Central Region)
Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj,
Lucknow – 226 024

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, Fly ash & CSR Report etc. for the period of **April'2021 to September'2021** in hard & soft (**e-mail**).

This is for your kind information & record please.

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

(**Santosh Kumar Singh**)
Head- Environment

Encl: as above

CC:

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

The Regional Officer,
Rajasthan State Pollution Control Board
SPL-2A, Road no. 6,
Indrapasth Industrial Area,
Kota- 324 005, Rajasthan

Member Secretary,
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri
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SIX MONTHLY COMPLIANCE REPORT OF

ENVIRONMENTAL CLEARANCE

1320 (2 x 660) MW Thermal Power Plant

At

KAWAI VILLAGE, ATRU TEHSIL
BARAN DISTRICT
RAJASTHAN

Submitted to:

Central Regional Office, Lucknow

Ministry of Environment, Forest and Climate Change

Central Pollution Control Board, New Delhi & Rajasthan State Pollution Control Board, Jaipur

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Submitted By:

Environment Management Department
Adani Power Rajasthan Limited Kawai Village, Atru Tehsi, Baran District, Rajasthan

PERIOD: April-2021 to September-2021

CONTENTS

Introduction

Adani Power Rajasthan Ltd. (APRL), a wholly owned company of Adani Power Limited, has established 1320 MW (2 x 660 MW) Coal based Supercritical Thermal Power Plant at Kawai, Tehsil Atru, District Baran in Rajasthan.

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

APRL has obtained Environmental Clearances (EC) from Ministry of Environment & Forest (MoEFCC) and has also obtained Consent to Establish (CTE) as well as Consent to Operate (CTO) from Rajasthan Pollution Control Board (RPCB). 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 also 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 State Pollution Control Board, Presently Environmental monitoring & analysis is being carried out by **M/s Team Institute of Science & Technology, 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.

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 and
Its subsequent amendment dated 13.03.2014

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.
(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 Wild life 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 Wild Life 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 panel are installed for street lights 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.
(vi)	Coal transportation to plant site shall be by rail. The project proponent shall take up the	Being complied. Coal is being transported to power plant

	matter with the Railways and shall submit action taken and implementation status to the ministry from time to time.	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 NABL accredited Consultant. 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.	Compiled. No ground water was extracted during setting up of power plant
(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.	APRL 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.
(xiv)	Regular monitoring of ground water level	Regular monitoring of ground water

	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.	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 APRL. Please refer attached **Annexure-I.** Three Piezometric wells are established around the ash pond. Record are being maintained and report is attached as **Annexure-II.**
(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 villagers, Monitoring report enclosed herewith as **Annexure – I.**
(xvi)	A well designed rain water 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 rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	Complied Design for rain water 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. Rain water harvesting pond already constructed within the plant to store and reuses more than **1,20,000 m3** of water.
(xvii)	Additional soil for leveling 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 were provided for FGD in the plant layout for further requirement. APRL 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. However, APRL has requested CEA to extend the timeline for installation of FGD.

		Status of the same has been intimated to CPCB.
(xix)	The project proponent shall undertake measures and ensure that no fugitive fly ash emission take place at any point of time.	Being complied. 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 SOx, NOx and PM2.5 & PM10. 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_2, NOx, 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 **Annexure IA.**
(xxi)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm3.	A high Efficiency Electrostatic Precipitators has been provided to each boiler (ESPs) to meet particulate emission less than 50mg/Nm3, ESP efficiency is being observed by our operation department. Details of monitoring results as carried out by MoEF approved third party for our 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 **Annexure I.**
(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.	Being 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.	Ash utilization / implementation report being submitted to MoEF&CC, CPCB, SPCB as well as CEA. Implementation status of fly ash utilization is enclosed herewith. Please refer **Annexure-III**
(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,	Being Complied APRL has signed MoUs for ash utilization with Mangalam Cement Ltd., J.K.Cement Ltd., Mangrol & Nimbahera, Birla Corporation Ltd, Nuvoco Vistas Corp. Ltd.,

	Pb, etc.) will be monitored in the bottom ash as also in the effluents emanating in the existing ash pond. No ash shall be disposed off in low lying area.	Shriram Cement Ltd, Wonder Cement Ltd apart that above parties we are also providing 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 and analysis report is attached as **Annexure-I.**
(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.	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 13.03.2014 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 109466 tree saplings have been planted and achieved 90% survival rate. Please refer **Annexure-IV**
(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	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-

	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.	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, primary school etc. shall be developed in co-ordination with the district administration.	Baldevpura, Kawai, Salpura, Khedli Gaddiyan and Nimoda are adopted for development of 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.	Being 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 Annexure V.**
(xxxi)	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 Main Focus has been given on Education, Health, Alternative Livelihood and Rural Infrastructure. Detailed activities are presented as **Annexure V.**
(xxxii)	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. Detailed activities are presented as **Annexure V.**
(xxxiii)	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	Separate budget has been earmarked for CSR activities. CSR activities are being carried out by Adani Foundation. CSR report and expenditures for period April-2021 to September- 2021 is attached as **Annexure V & VIII** respectively.

	to be undertaken shall be submitted within six month along with road map for implementation.	
(xxxiv)	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.	Being 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.
Additional Specific Conditions		
(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.	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 maintaining 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 MoEF&CC and Central Electricity Authority (CEA) since plant operation. Please refer attached **Annexure-III**.
(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 street light 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-	Being Complied. Adequate air pollution control measures

	agriculture land.	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 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.	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). Fly Ash generation & utilization is attached as **Annexure III.**
(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 Subabol, 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 issued on dated 28/08/2019. Please refer attached NABL certificate attached as **Annexure-VII.**
(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	**General Conditions:**	
(i)	The treated effluents confirming to the prescribed standards only shall be re-circulated and reused within the plant.	ETP has been established (Capacity- 226 m3/hr. based on primary treatment) to treat effluents and treated water reuses

<table>
<tr><td></td><td>Arrangements shall be made that effluents and storm water do not get mixed.</td><td>within the premises. The concept of "Zero Discharge Condition" is implemented except during non-monsoon period. Separate drainage network is established for storm water.</td></tr>
<tr><td>(ii)</td><td>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt / plantation.</td><td>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>
<tr><th>Particular</th><th>Capacity</th><th>Total Capacity</th><th>Technology</th></tr>
<tr><td>STP</td><td>120 KLD and 10 x 2 KLD</td><td>140 KLD</td><td>Mikie Bioreactor</td></tr>
</table></td></tr>
<tr><td>(iii)</td><td>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.</td><td>Adequate safety team has been established in plant site to take preventive control measures. Fire hydrant system for fire-fighting is provided in plant layout. Fire & Safety department made available with 3 no. of firefighting tanker equipped with all necessary control system.</td></tr>
<tr><td>(iv)</td><td>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.</td><td>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 Annexure-IX.</td></tr>
<tr><td>(v)</td><td>First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</td><td>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.</td></tr>
<tr><td>(vi)</td><td>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</td><td>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) are provided to workers & employees working in noisy areas. Noise level monitoring is carried out regularly. Periodic audiometric check-up is carried out.</td></tr>
</table>

	maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy / less noisy area.	Occupational Health & Safety Management System as per ISO 45001 as implemented.
(vii)	Regular monitoring of ambient air ground level concentration of SO2, NOx, PM2.5 & PM10 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.	Regular Environmental monitoring of SO2, NOx, PM2.5 & PM10 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 **Annexure I.**
(viii)	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	During construction, provision was made for common facilities to labours as toilets, safe 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 http://envfor.nic.in	Complied Advertised in local daily News Paper 'Dainik Bhaskar and Rajasthan Patrika' on 10th May 2011 in Hindi.
(x)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions / representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	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.	Being 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 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 location near the main gate of the company in the public domain.	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 www.adanipower.com
(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 had been submitted with vide letter no APRL/PK/GOVT/RSPCB/00568, dated-22.09.2021.
(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	Six monthly compliance on the Environmental Clearance granted by MoEF is being submitted to MoEF, CPCB & RPCB regularly. Compliance status updated on company's website. Compliance report for the period of Oct'20- to Mar'21 had been submitted to your good office vide letter no.: APL/APRL/EMD/EC/MoEF/235/05/21 dated

	website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forest.	20.05.2021
(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 other purposes and year-wise expenditure should be reported to the Ministry.	Being Followed. Separate fund has already been allocated and being utilize for Environmental Protection. Environment protection measures (EMP & CER) Expenditure (Apr- 2021 to Sep- 2021) is attached as **Annexure-VIII.**
(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 shall be extended.

SIX MONTHLY COMPLIANCE REPORT ON ENVIRONMENTAL MONITORING

as

AMBIENT AIR QUALITY,

WATER QUALITY, SOIL QUALITY AND NOISE LEVEL

for

ADANI POWER RAJASTHAN LIMITED

(2x660 MW- SUPERCRITICAL THERMAL POWER STATION)

Near Salpura Railway Station, Tehsil Atru,

District Baran (Rajasthan)

PREPARED BY:

TEAM TEST HOUSE

(A UNIT OF TEAM Institute of Science & Technology Pvt. Ltd.)
G1-584, RIICO INDUSTRIAL AREA, SITAPURA, TONK ROAD,
JAIPUR - 302022, RAJASTHAN

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-2021 to September-2021

TABLE OF CONTENTS

1 EXECUTIVE SUMMARY

ADANI group has constructed 2 units of 660 MW Supercritical Thermal Power Station at Village, Kawai in Tehsil, Atru of District Baran (Rajasthan). The plant is designed to generate 2x660MW 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 has awarded environmental monitoring job work to

M/s Team Institute of Science and Technology (Unit - Team Test House)

vide Service Order No 5700295971 dated 03/04/2021 for Sampling/Monitoring and Testing of Environmental parameters on quarterly basis for the period 01/04/2021 to 31/03/2023.

The samples for determination of quality of Ambient Air analysis, Ground Water, Soil, Source Emission, Noise, etc. are collected from Site and analyzed at **Team Test House**, Jaipur.

The overall results for First and Second quarter are found to be satisfactory. The plant was performing well during the monitoring and environmental parameters in each segment like Ambient Air, Emission Air, Soil, Water, and Noise are found to be within the desired limits.

2 BRIEF DESCRIPTION OF ADANI POWER AND KAWAI THERMAL POWER STATION

2.1 ADANI THERMAL POWER STATION

Adani, a conglomerate with a formidable presence in multiple businesses across the globe, has entered the power sector to harbinger 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

Adani Enterprises Limited (AEL) have signed MoU with Energy Department, Government of Rajasthan on 20th March 2008 for developing a Thermal Power Project of 1320 MW capacity near Kawai, District Baran, Rajasthan. For this purpose, Adani Enterprises Limited (AEL) has registered Adani Power Rajasthan Limited (APRL), as a subsidiary company to Adani Power Limited (APL). The site is approximately 120 km from Kota and 40 Kms from Baran.

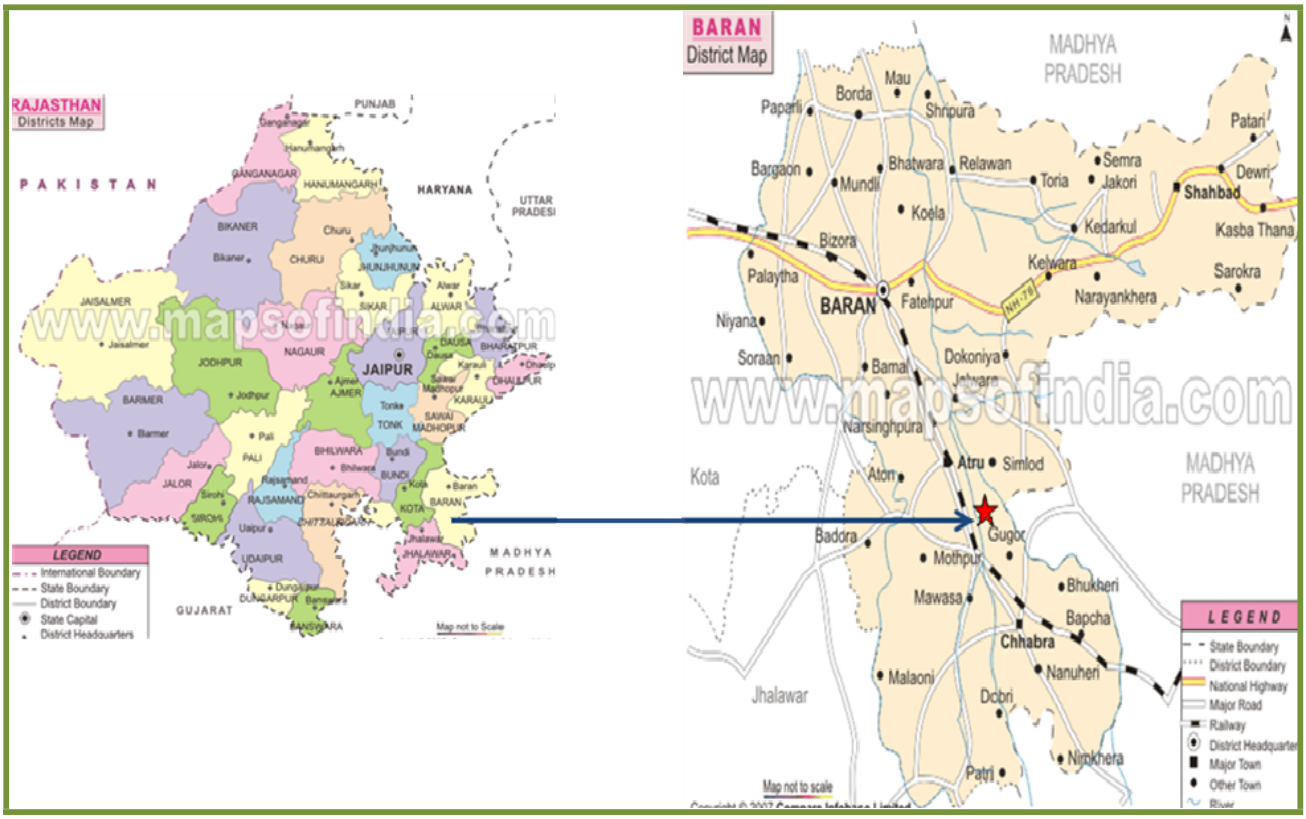
The plant is covered in around 350 Ha. area. The possession of 350 Ha has been already given to APRL by Govt. of Rajasthan. The coal and water requirement of the plant is 5.6 MTPA and 34 MCM respectively.

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

2.3 LOCATIONS OF THE PLANT

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

Location Map



MICRO-METEROLOGICAL DATA-

AVERAGE DAILY METEROLOGICAL DATA OF April -2021

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.04.2021	23.1	38.5	7	23.1	0
02.04.2021	22	39.6	6.2	21.3	0
03.04.2021	24.1	40.4	9.1	18.5	0
04.04.2021	23.6	40.3	8.2	23.1	0
05.04.2021	25.2	42	11	24.2	0
06.04.2021	26.3	41.5	13	29.1	0
07.04.2021	26	40.5	14.1	30.4	0
08.04.2021	27.6	40.2	14.1	30.2	0
09.04.2021	26	38	12.1	25.2	0
10.04.2021	25.1	40.2	11.2	22.2	0
11.04.2021	26.1	40.1	14.3	32.6	0
12.04.2021	24.1	40.6	10.1	52	0
13.04.2021	24.5	41.1	8.1	26	0
14.04.2021	26.2	41	10.2	20.3	0
15.04.2021	28	39.4	13	26.2	0
16.04.2021	29	40.2	14.2	25.2	0
17.04.2021	27	38.3	17	37	0
18.04.2021	27.1	40.1	14	32.1	0
19.04.2021	25	41.1	12.1	30.3	0
20.04.2021	27	39.4	15.1	27.4	0
21.04.2021	29.2	37.3	16.1	31.3	0
22.04.2021	22.2	39	14.2	38.1	0
23.04.2021	26.1	40.4	12.1	30.2	0
24.04.2021	26	38.3	9	40.2	0
25.04.2021	23.2	39.5	9	22.1	0
26.04.2021	23.2	41.1	8	20.4	0
27.04.2021	24.2	42.5	6.1	20.4	0
28.04.2021	25.1	43.4	7.2	18.4	0
29.04.2021	29.3	44.6	7.1	16.5	0
30.04.2021	29.1	43.4	11	21.4	0
Max	**29.3**	**44.6**	**17**	**52**	**0**
Min	**22**	**37.3**	**6.1**	**16.5**	

Time : 00:00 - 23:00
Date : 01/04/21 - 30/04/21

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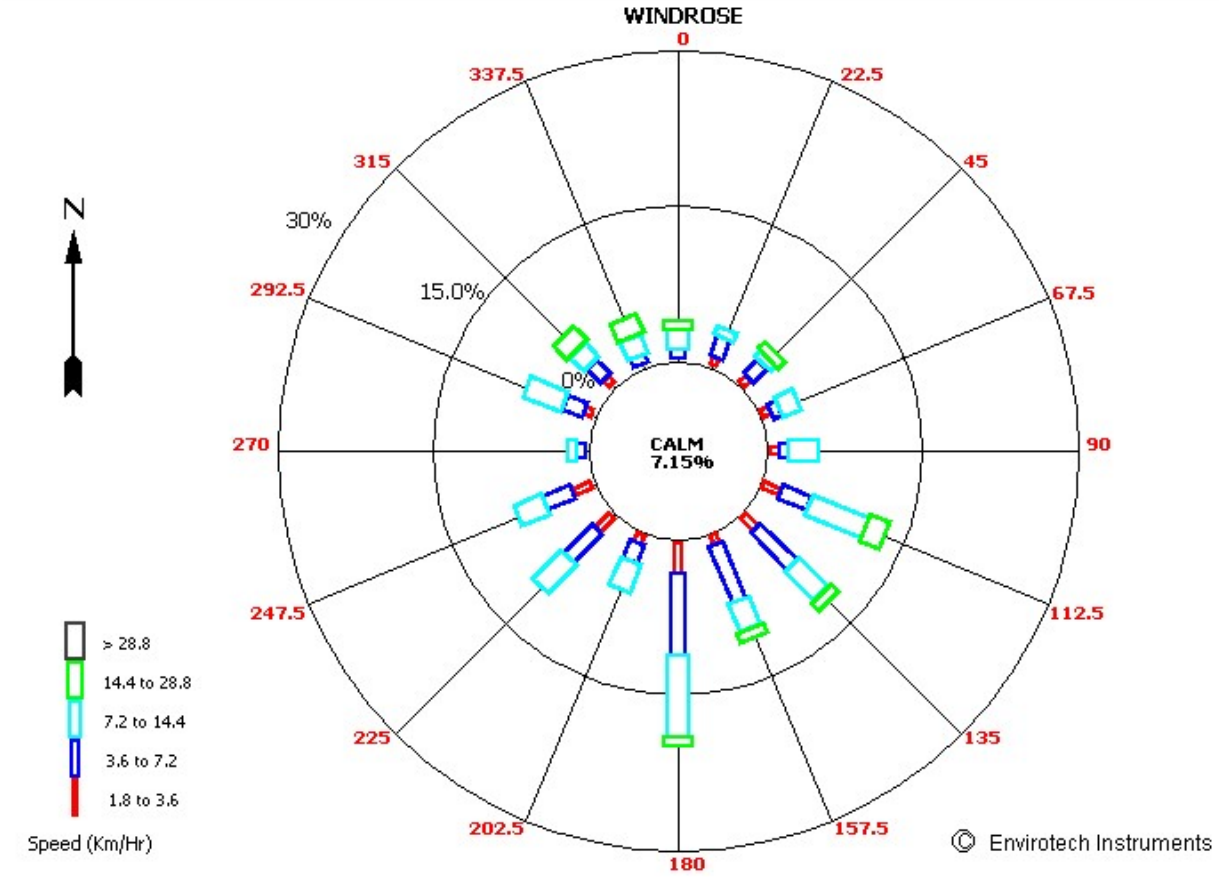
ADANI POWER RAJ. LTD
KAWAI



AVERAGE DAILY METEROLOGICAL DATA OF May -2021

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.05.2021	31.1	42.5	15.1	37	0.5
02.05.2021	29.1	35.2	18	39.3	0
03.05.2021	26.3	39.4	18	49.2	0
04.05.2021	27.1	40.6	14	41.2	0
05.05.2021	29	41.3	15.2	26.1	0
06.05.2021	28.2	42.4	12.1	25.2	0
07.05.2021	28.1	40.5	18.1	43.4	0
08.05.2021	31.3	40.5	19.5	44.3	0
09.05.2021	29	40.2	18.4	48.5	0.5
10.05.2021	27	42	18.1	68.1	1
11.05.2021	25.2	40.5	19.2	65.5	0
12.05.2021	29.1	40.3	20.2	46	0
13.05.2021	28.1	40	22	52.3	0
14.05.2021	29.2	41.4	17.2	44.5	0
15.05.2021	29.1	42.6	17.1	43	0
16.05.2021	29	41.2	28.5	63.2	0
17.05.2021	24.1	34.19	43.18	92.2	7.5
18.05.2021	24	34.1	52	94.2	30.5
19.05.2021	25	34.6	49.1	93.4	4.5
20.05.2021	23	35.6	36	93.5	0
21.05.2021	26.1	39.4	24.1	69.5	0
22.05.2021	28.2	40.5	18	60	0
23.05.2021	26.1	40.5	18	69.5	0
24.05.2021	26.1	40.3	17	69.5	0
25.05.2021	29.6	42.1	17.3	39	0
26.05.2021	30	43	16	37.1	0
27.05.2021	30.1	43.4	13.1	40.2	0
28.05.2021	30.1	43.4	18.3	45	0
29.05.2021	29.2	42	29.4	65.2	1.5
30.05.2021	29.1	42	25	66.2	0
31.05.2021	29.3	42.5	21.1	62.1	0
Max	31.3	43.4	52.0	94.2	46
Min	23.0	34.1	12.1	25.2	

Time : 00:00 - 23:00
Date : 01/05/21 - 31/05/21

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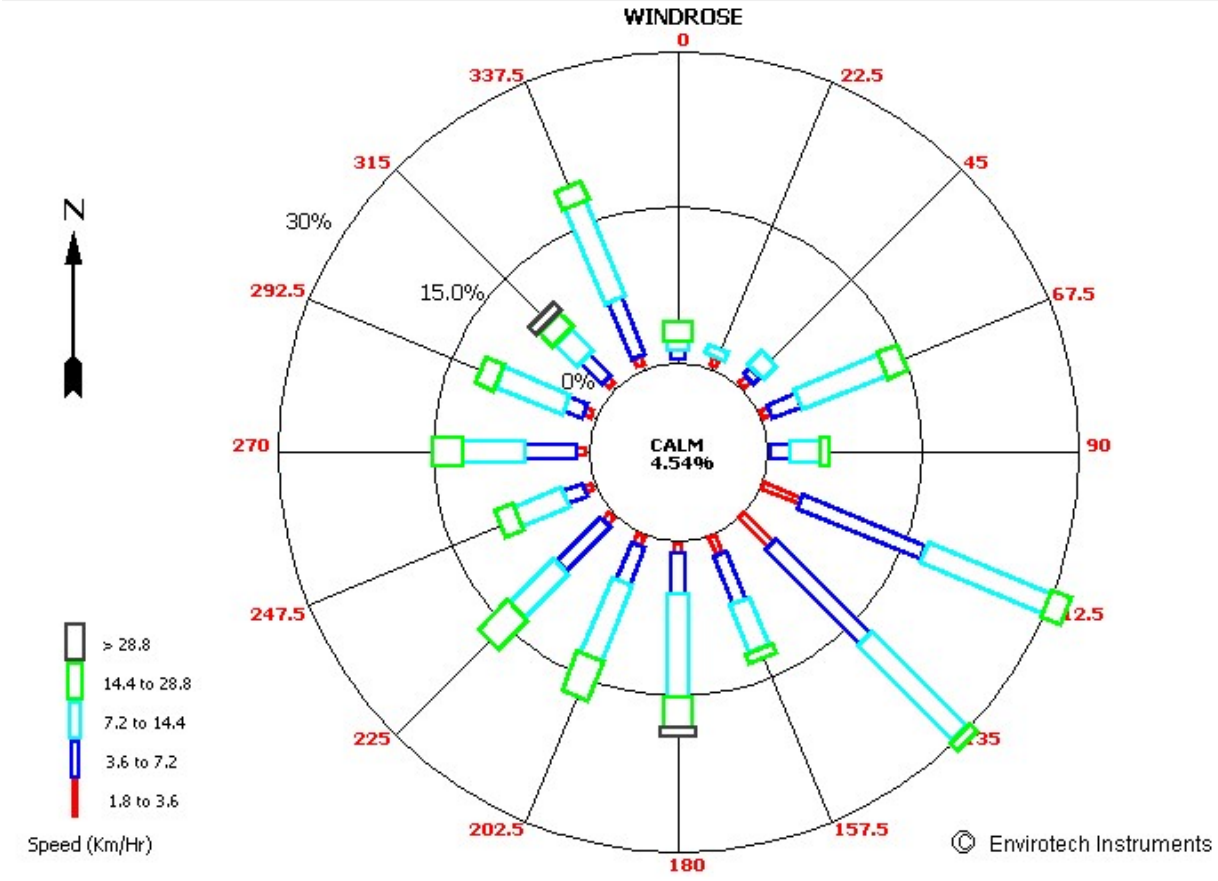
KAWAI



AVERAGE DAILY METEROLOGICAL DATA OF JUNE -2021

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.06.2021	29.1	41.2	26	60.4	0.5
02.06.2021	28.1	40.4	21	61.3	0
03.06.2021	27.2	40.5	24.4	56.2	0.5
04.06.2021	30.1	38.3	30.2	52	0
05.06.2021	29.1	38	34.1	63.5	0
06.06.2021	29.1	40.4	26.2	62.5	0
07.06.2021	30.2	41.6	27.1	58.4	0.5
08.06.2021	30	42.3	26	69	0
09.06.2021	30	42.1	26.1	63.2	0
10.06.2021	32.1	42.5	26	59.5	0
11.06.2021	31	41.2	29.1	67.5	0
12.06.2021	32	42.1	24.1	63	0
13.06.2021	28	41.1	29.2	72.1	0
14.06.2021	26.5	38.2	38.1	87.5	12.5
15.06.2021	25.2	36.1	50	88.2	76
16.06.2021	28	38.1	38.1	74.5	2
17.06.2021	28.1	38.4	36.2	75.4	0
18.06.2021	28	39.3	36.4	74.2	0
19.06.2021	28	34.2	51.1	76	0
20.06.2021	28.2	36.4	41.5	73.5	0
21.06.2021	27.1	36.1	41.5	79.2	6.5
22.06.2021	28.2	40.3	31	78.4	0
23.06.2021	29	40.2	32.2	78	1
24.06.2021	28.1	39.5	33.3	79.5	3
25.06.2021	26	39	37.2	91.2	0
26.06.2021	28.1	38.5	36	71.3	0
27.06.2021	27.5	40.4	30.3	81.2	0
28.06.2021	29.1	40.5	29.1	69.2	0
29.06.2021	29	42.4	25.2	71.3	0
30.06.2021	30.2	39.5	38.2	65.1	0
Max	32.1	42.5	51.1	91.2	102.5
Min	25.2	34.2	21	52	

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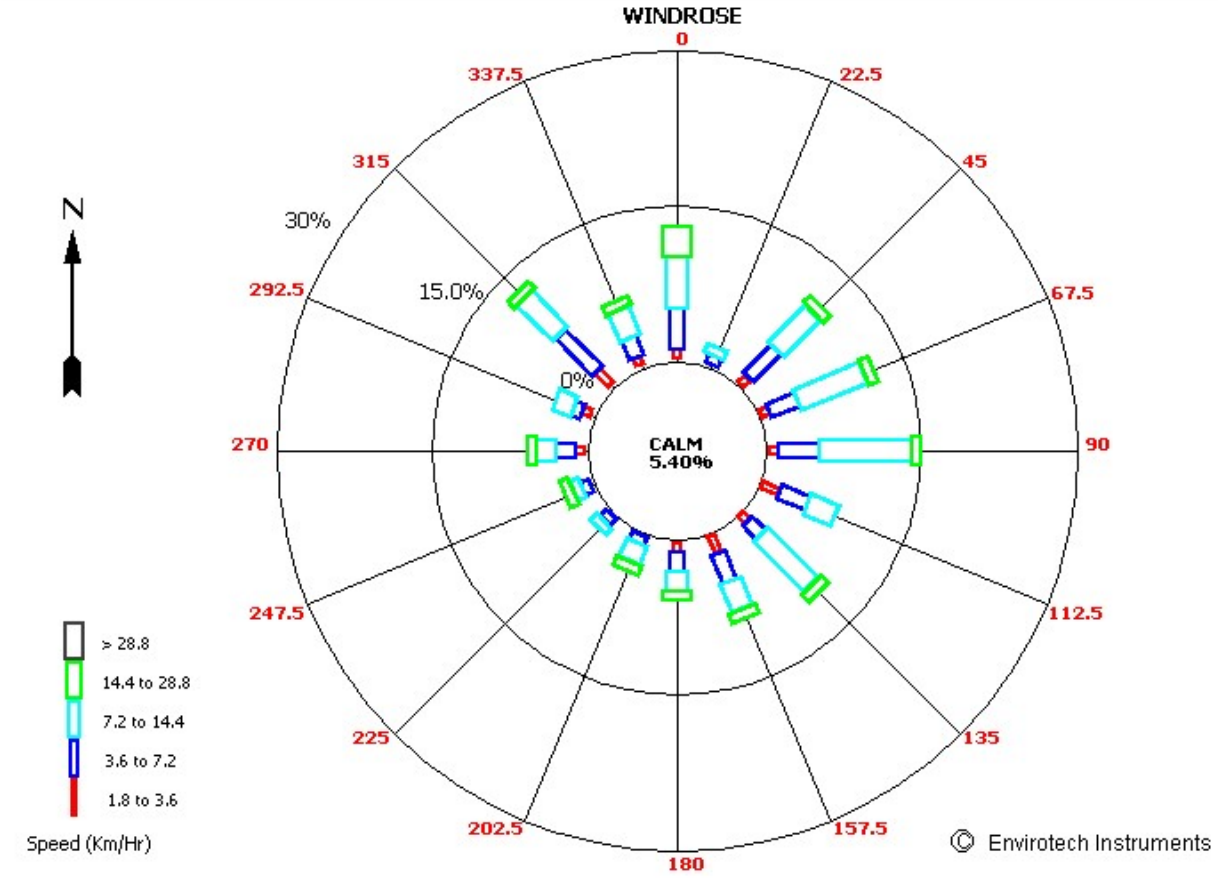
KAWAI



AVERAGE DAILY METEROLOGICAL DATA OF JULY -2021

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.07.2021	30	38.6	38.1	73.6	0
02.07.2021	29.6	38.1	34.2	71.4	0
03.07.2021	29.1	38.3	33.5	68.5	0
04.07.2021	30.1	38.1	36.3	62.2	0
05.07.2021	29.3	38.5	34.0	62.2	0
06.07.2021	30.1	38.4	36.1	66.3	0
07.07.2021	31.1	40.5	32.0	63.1	0
08.07.2021	26.2	39.3	36.5	91.5	55
09.07.2021	27.0	38.1	43.0	90.2	0.5
10.07.2021	29.0	39.1	42.4	85.2	6
11.07.2021	29.2	37.2	50.2	81.4	5.5
12.07.2021	29.0	39.0	44.0	85.5	1
13.07.2021	28.0	38.2	44.1	83.4	5
14.07.2021	29.1	38.5	45.2	80.4	15
15.07.2021	28.1	37.6	42.5	88.3	0
16.07.2021	31.2	40.3	37.2	65.6	0
17.07.2021	31.1	39.3	40.1	68.1	0
18.07.2021	28.2	33.2	67.0	94.5	12
19.07.2021	26.1	32.3	72.0	95.5	38
20.07.2021	28.1	33.6	59.0	91.4	0
21.07.2021	27.3	35.3	54.3	86.5	0
22.07.2021	29.0	33.0	68.1	83.4	0
23.07.2021	26.0	32.1	74.6	97.5	56.5
24.07.2021	26.0	32.5	73.1	96.1	26
25.07.2021	27.0	34.4	64.4	98.5	4
26.07.2021	26.0	29.6	89.2	96.6	27
27.07.2021	25.0	27.0	92.1	98.5	127
28.07.2021	26.1	31.0	70.1	92.1	0
29.07.2021	26.3	29.4	77.5	88.4	0
30.07.2021	25.2	28.3	86.5	97.6	21
31.07.2021	26.1	27.5	88.2	98.4	30.5
Max	31.2	40.5	92.1	98.5	430
Min	25.0	27.0	32.0	62.2	

Time : 00:00 - 23:00
Date : 01/07/21 - 31/07/21

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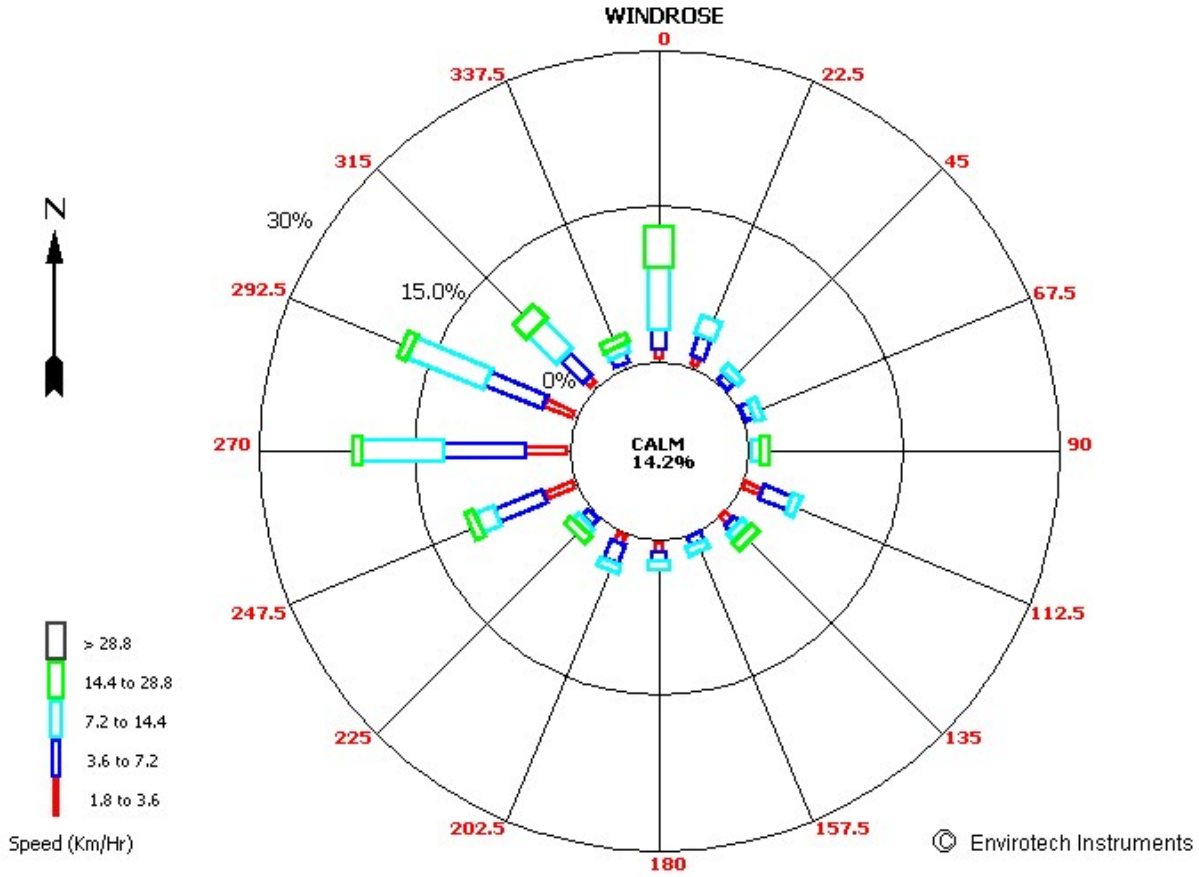
ADANI POWER RAJ. LTD
KAWAI



AVERAGE DAILY METEROLOGICAL DATA OF AUGUST- 2021

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.08.2021	25	27.5	90.3	98.4	222
02.08.2021	25	26.3	97.1	98.5	104
03.08.2021	24.2	26.2	97.1	98.4	205
04.08.2021	25.1	26.6	97.2	98.5	66.5
05.08.2021	25.1	29.4	86	98.5	100.5
06.08.2021	25.1	26.6	98.3	98.5	71
07.08.2021	25	30.6	76	98.4	6
08.08.2021	26.1	32.5	70.2	98.1	16.5
09.08.2021	25.1	30.6	80.1	97.5	21.5
10.08.2021	25.2	29.2	84.2	98.3	12.5
11.08.2021	26	33	63.4	94	0
12.08.2021	26	34.5	54.4	91	0
13.08.2021	26	35.1	50.2	90.1	0
14.08.2021	26.1	34.2	50.1	88.1	0
15.08.2021	26.1	34.5	52.1	87.6	0
16.08.2021	26.1	36.4	44.5	89.1	0
17.08.2021	28.2	33.2	60.1	81.5	0
18.08.2021	26	35	60.1	88.1	0.5
19.08.2021	26	33.2	62	89.1	0.5
20.08.2021	25	36.2	62	89.1	1.5
21.08.2021	27	37.2	62	89.1	1
22.08.2021	28	34.2	62	89.1	1.5
23.08.2021	27	33	64.4	89.6	1
24.08.2021	27	32	69	89.6	0
25.08.2021	27.2	34.4	55.4	86.3	0
26.08.2021	28	36	51	80	0
27.08.2021	26	27.5	80.2	86.5	0
28.08.2021	27	28.4	78.2	86.5	0
29.08.2021	27	35.4	55.1	90.1	1
30.08.2021	26.2	35.1	58.3	93.3	0.5
31.08.2021	27	34.21	65.21	92.3	10
Max	28.2	37.2	98.3	98.5	843
Min	24.2	26.2	44.5	80	

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Date : 02/08/21 - 31/08/21

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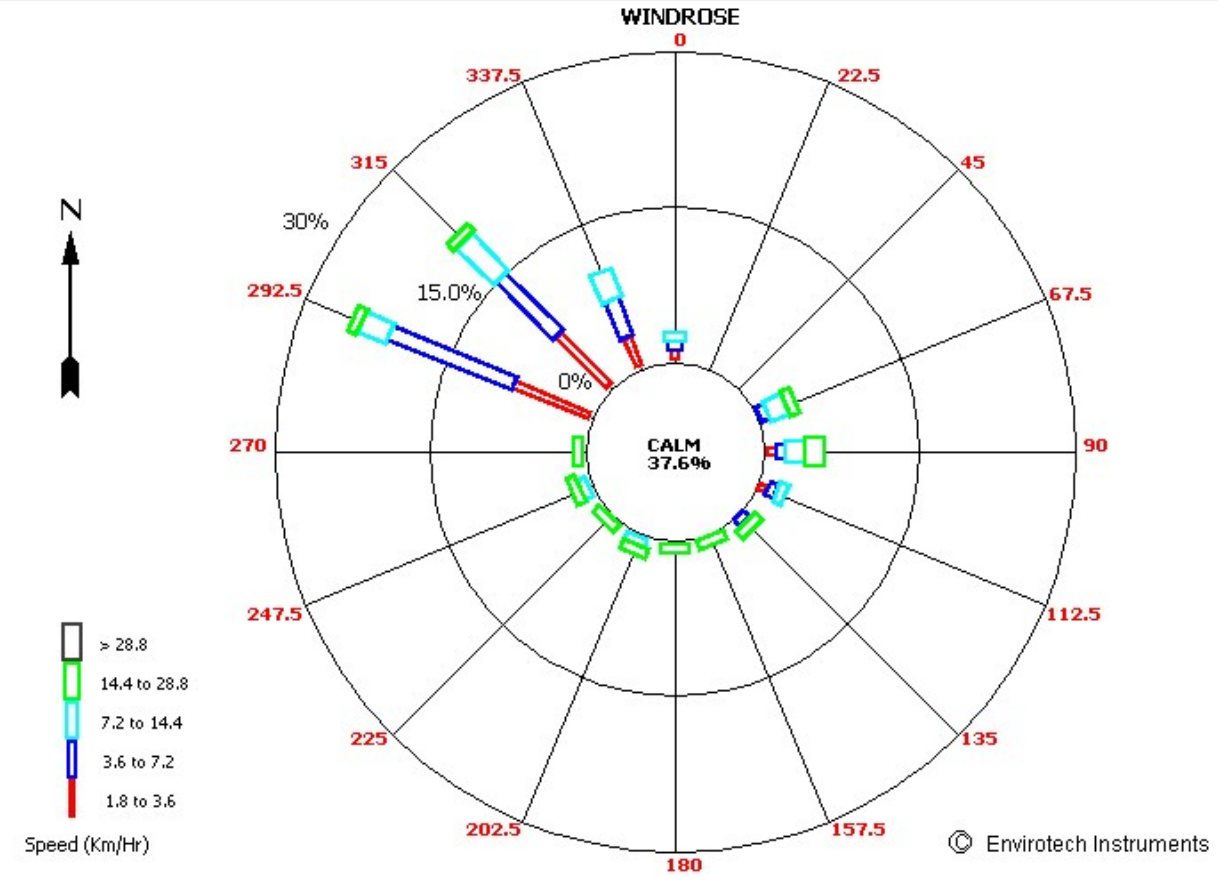

AVERAGE DAILY METEROLOGICAL DATA OF SEPTEMBER- 2021

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.09.2021	27.1	35.3	56.3	94.4	0
02.09.2021	27.1	29.2	86.1	92.5	0
03.09.2021	27	32.21	80.14	94.21	0
04.09.2021	26	34.5	63.21	91.21	0
05.09.2021	27.3	36.3	79.21	96.32	10
06.09.2021	26	36.9	60.1	94.4	0
07.09.2021	28	35.1	56.1	91.3	0
08.09.2021	28.1	31.6	72.2	88.1	0
09.09.2021	26.3	31	76	96.4	2
10.09.2021	26	28.5	85.2	97.1	6
11.09.2021	26	32.1	66	96.1	10
12.09.2021	26.1	34.6	56.5	95.2	0
13.09.2021	26.3	33	63.4	94.2	0
14.09.2021	27.2	34	61.1	92.4	0
15.09.2021	27	31.2	70	90.6	3.5
16.09.2021	26.2	32.2	59.2	91.1	0
17.09.2021	25.2	28.1	78.3	97.5	2
18.09.2021	25	28.2	80.3	98.4	10.5
19.09.2021	26	30.4	77.4	98.4	1
20.09.2021	26.1	31.4	75.2	98.5	32.5
21.09.2021	26	33.6	63.3	96.1	0
22.09.2021	25.2	34.4	58.1	96.1	0
23.09.2021	26.1	35.1	53.4	89.2	0
24.09.2021	27	34.5	54.1	91.4	0
25.09.2021	27	35.1	54.3	94.3	0
26.09.2021	26.1	34	57.2	93.1	0
27.09.2021	26.2	35.2	55.1	94.2	0
28.09.2021	27	35.2	55.1	91.3	0
29.09.2021	26.2	35.2	55.1	94.2	0
30.09.2021	26.2	34.1	54.5	94.2	0
Max	28.1	36.9	86.1	98.5	**77.5**
Min	25	28.1	53.4	88.1	

Time : 00:00 - 23:00
Date : 01/09/21 - 30/09/21

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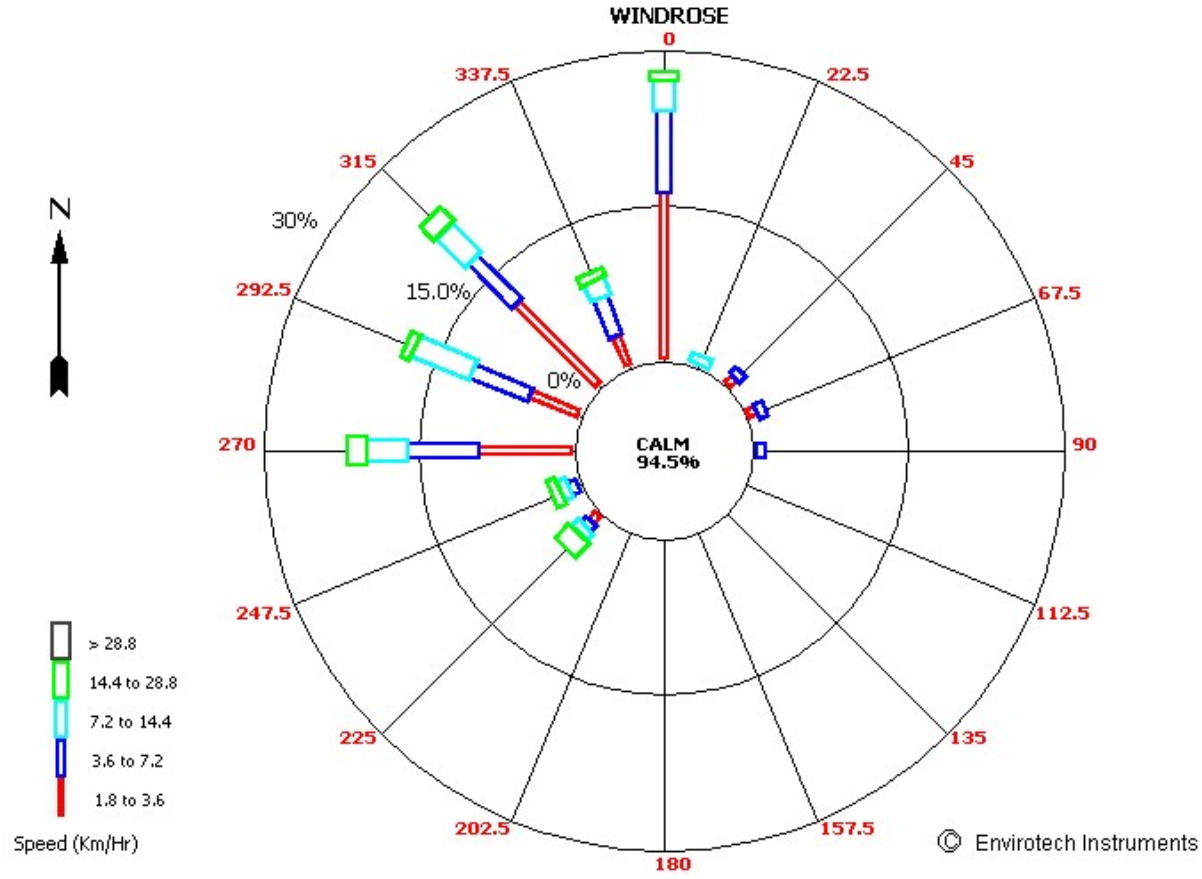
ADANI POWER RAJ. LTD
KAWAI



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 several 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 2021 to September 2021.

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 3.1 TECHNICAL PROTOCOLS USED FOR AMBIENT AIR QUALITY MONITORING.

S. No.	Parameter	Protocol Followed
1	Particulate Matter, PM10, µg/m3	IS: 5182 (P-23)
2	Particulate Matter, PM2.5, µg/m3	CPCB Guidelines (Gravimetric Method)
3	Nitrogen Dioxide (NO2), µg/m3	IS: 5182 (P-6)
4	Sulphur Dioxide (SO2), µg/m3	IS: 5182 (P-2)
5	Carbon Monoxide, µg/m3	IS: 5182 (P-10)
6	Ammonia, µg/m3	CPCB Guidelines
7	Ozone, µg/m3	APHA 1977, Part819
8	Lead, µg/m3	IS: 5182 (P-22)
9	Arsenic, ng/m3	IS: 5182 (P-22)
10	Nickel, ng/m3	IS: 5182 (P-22)
11	Benzene, µg/m3	IS: 5182 (P-11)
12	Benzo-alfa-pyrene, ng/m3	CPCB Guidelines
13	Mercury (Hg), ng/m3	APHA 2012 : 3112 B

4.1 AMBIENT AIR QUALITY RESULTS

The detailed on-site monitoring results of PM10, PM2.5, SOx, NOx and Hg are presented in table as given below:

TABLE 3.2: AMBIENT AIR QUALITY MONITORING RESULTS

Quarter I (Apr 2021 to Jun 2021)								
S. No.	**Parameter**	**West of Stack (Near Coal Handling Plant)**	**South East of Stack (Near CT 2)**	**North East of Stack (Near Reservior)**	**Sidni (Near Labour Colony)**	**Kawai Village**	**Mukhandpura**	**NAAQ Standard**
1	Particulate Matter, PM_{10}, $\mu g/m^3$	76.0	79.35	78.21	64.4	69.37	60.73	100
2	Particulate Matter, $PM_{2.5}$, $\mu g/m^3$	38.55	42.61	43.53	39.95	39.16	30.4	60
3	Nitrogen Dioxide (NO_2), $\mu g/m^3$	15.54	13.61	17.81	14.68	16.69	13.69	80
4	Sulphur Dioxide (SO_2), $\mu g/m^3$	10.65	12.8	9.1	13.17	12.09	8.88	80
5	Carbon Monoxide, $\mu g/m^3$	360	280	360	340	310	280	4000
6	Ammonia, $\mu g/m^3$	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	400
7	Ozone, $\mu g/m^3$	24.15	32.48	38.25	21.58	23.9	23.48	100
8	Lead, $\mu g/m^3$	0.22	0.3	0.41	0.24	0.22	0.28	1.0
9	Arsenic, ng/m^3	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	6.0
10	Nickel, ng/m^3	5.2	7.2	14.6	8.9	5.5	8.1	20
11	Benzene, $\mu g/m^3$	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	5.0
12	Benzo-alfa-pyrene, ng/m^3	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	1.0
13	Mercury (Hg), ng/m^3	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	-

Quarter II (July 2021 to Sep 2021)								
S. No.	**Parameter**	**West of Stack (Near Coal Handling Plant)**	**South East of Stack (Near CT 2)**	**North East of Stack (Near Reservior)**	**Sidni (Near Labour Colony)**	**Kawai Village**	**Mukundpura**	**NAAQ Standard**
1	Particulate Matter, PM10, µg/m3	75.3	82.75	79.82	59.71	70.97	68.72	100
2	Particulate Matter, PM2.5, µg/m3	33.29	37.71	41.75	24.09	28.53	30.03	60
3	Nitrogen Dioxide (NO2), µg/m3	18.79	17.43	21.83	12.88	14.13	13.23	80
4	Sulphur Dioxide (SO2), µg/m3	8.51	9.82	9.24	3.3	6.81	4.64	80
5	Carbon Monoxide, µg/m3	340	430	380	260	260	240	4000
6	Ammonia, µg/m3	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	400
7	Ozone, µg/m3	26	31	28	22	23	20	100
8	Lead, µg/m3	0.11	0.08	0.17	0.12	0.16	0.11	1.0
9	Arsenic, ng/m3	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	6.0
10	Nickel, ng/m3	5	10.5	17.8	7.3	11.0	5.8	20
11	Benzene, µg/m3	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	5.0
12	Benzo-alfa-pyrene, ng/m3	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	1.0
13	Mercury (Hg), ng/m3	ND	ND	ND	ND	ND	ND	-

5 AMBIENT NOISE LEVEL

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

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

TABLE 5.1: NOISE MONITORING RESULTS [INDUSTRIAL AREA]

Quarter I (Apr 2021 to Jun 2021)		
Location	**Day Time Leq in dB(A)**	**Night Time Leq in dB(A)**
West of Stack (Near Coal Handling Plant)	59.6	53.9
South East of Stack (Near CT 2)	66.3	55.1
North East of Stack (Near Reservoir)	63.2	54.6

Quarter II (July 2021 to Sep 2021)		
Location	**Day Time Leq in dB(A)**	**Night Time Leq in dB(A)**
West of Stack (Near Coal Handling Plant)	62.8	55.3
South East of Stack (Near CT 2)	60.7	53.7
North East of Stack (Near Reservoir)	61.4	54.8

TABLE 5.2: NOISE MONITORING RESULTS [RESIDENTIAL AREA]

Quarter I (Apr 2021 to Jun 2021)		
Location	**Day Time Leq in dB(A)**	**Night time Leq in dB(A)**
Sidni (Near Labour Colony)	52.6	43.1
Kawai Village	52.8	43.3
Mukhandpura	51.6	41.6

Quarter II (Jul 2021 to Sep 2021)		
Location	**Day Time Leq in dB(A)**	**Night Time Leq in dB(A)**
Sidni (Near Labour Colony)	52.5	41.4
Kawai Village	53.2	43.6
Mukhandpura	50.7	41.2

TABLE 5.3: NOISE MONITORING RESULTS [DG Set]

Quarter II (July 2021 to Sep 2021)			
Parameter	DG Set-I	DG Set-II	DG Set-III
Noise level (dB(A) (inside the acoustic enclosure Room)	103.9	102.3	102.5
Noise level 0.5m away from outside the engine room, (db) (Outside the acoustic enclosure)	71.3	72.4	71.6
Insertion Loss	32.6	29.9	30.9

6 STACK

Emission measurements are required to identify and quantify a wide range of pollutants in Stack Emissions. The measurements were conducted during the period of October 2018 to March 2019.

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^3	IS 11255 (P-1)
2	Sulphur dioxide (SO2)	mg/ Nm^3	IS 11255 (P-2)
3	Oxide of nitrogen (NOx),	mg/ Nm^3	IS:11255 (P-7)
4	Carbon monoxide (CO)	%	IS:13270-1992
5	Mercury as particulate (Hgp)	µg/m3	USEPA-29

TABLE 6.2: STACK MONITORING RESULTS

S. No	Parameter	Unit	Quarter I (Apr 2021 to June 2021)	
			Unit-I	Unit-II
1	Exit Gas Velocity	m/sec	20.21	-
2	Flow Rate	Nm^3/hr	2709949.97	-
3	Particulate Matter (PM)	mg/Nm^3	26.88	-
4	Sulphur dioxide (SO_2)	mg/Nm^3	1028	-
5	Oxide of nitrogen (as NO_x) at 15 % O_2	mg/Nm^3	513	-
6	Mercury as particulate (Hgp)	µg/m3	BDL (<0.001)	-

S. No	Parameter	Unit	Quarter II (July 2021 to Sep 2021)	
			Unit-I	Unit-II
1	Exit Gas Velocity	m/sec	-	21.18
2	Flow Rate	Nm3/hr	-	2577404.78
3	Particulate Matter (PM)	mg/Nm^3	-	31.5
4	Sulphur dioxide (SO2)	mg/Nm^3	-	1096
5	Oxide of nitrogen (as NOx) at 15 % O2	mg/Nm^3	-	342
6	Mercury as particulate (Hgp)	µg/m3	-	0.007

TABLE 6.3: DG STACK MONITORING RESULTS

Parameter	Unit	Quarter II (July 2021 to Sep 2021)		
		DG Set-I	DG Set-II	DG Set-III
Particulate Matter (PM)	mg/Nm³	48.07	50.04	35.55
Oxide of Nitrogen (NOx) at15% O_2	ppmv	278	281	267
Carbon monoxide (CO)	mg/Nm³	72	82	78
NMHC as C at 15% O_2	mg/Nm³	28	33	35

7 WATER QUALITY RESUTS [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 2021 to June 2021. The parameters covered in the monitoring are depict below:

TABLE 7.1.1: RESULTS OF GROUND WATER MONITORING

S. No.	Parameter	Near Labour Colony SE (Piezometer)	Salpura Village	Kawai Village	Phoolbaroda Village	Nimoda Village	Sidni Village	Baldevpura Village
1	pH (at 25 °C)	7.38	6.97	7.32	7.56	7.04	7.26	7.18
2	Colour, Hazen	<5	<5	<5	<5	<5	<5	<5
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU	15.8	4.2	< 0.1	< 0.1	<0.1	< 0.1	< 0.1
5	Total Dissolved Solids, mg/l	889	764	566	504	1129	806	177
6	Electrical Conductivity, µS/cm	2012	1674	1784	843	1889	1348	296
7	Total Hardness (as $CaCO_3$), mg/l	603.96	500	549.02	301.96	725.49	372.55	134.31
8	Calcium (as Ca), mg/l	162.38	152.94	125.49	83.14	192.16	94.12	32.16
9	Magnesium (as Mg), mg/l	47.63	28.59	57.17	22.87	59.55	33.35	13.1
10	Chlorides (as Cl^-), mg/l	104.51	161.51	185.26	30.4	123.51	128.26	14.25
11	Sulphate (as SO_4), mg/l	350	142.77	126.11	33.22	547.22	183.88	14.33
12	Iron (as Fe), mg/l	BDL (< 0.01)	BDL (<0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)
13	Total Chromium (as Cr), mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
14	Arsenic (as As), mg/l	BDL (<0.001)	BDL (<0.01) (<0.001)	BDL (<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)

15	Lead (as Pb), mg/l	BDL (<0.01)	0.01	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
16	Silica (as SiO2) mg/l	15.0	15.95	18.81	23.52	10.95	16.67	9.86
17	Mercury, mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Appearance	Not Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
19	Appearance after Filtration	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
20	Methyl orange Alkalinity as CaCO3 mg/l	110	220	330	300	120	190	86
21	P- Alkalinity mg/l	ND	ND	ND	ND	ND	ND	ND
22	Non-Carbonate Hardness (as CaCO3 mg/l	488	279	219	ND	605	182	48
23	E coli MPN/100ml	ND	ND	ND	ND	ND	ND	ND
24	Total coliform, MPN/100ml	ND	ND	ND	ND	ND	ND	ND

Quarter II July 2021 to Sep 2021								
S. No.	**Parameter**	**Near Labour Colony SE (Piezometer)**	**Salpura Village**	**Kawai Village**	**Phoolbaroda Village**	**Nimoda Village**	**Sidni Village**	**Baldevpura Village**
1	pH (at 25 °C)	6.62	7.11	7.36	7.53	6.83	7.10	7.09
2	Colour, Hazen	<5	<5	<5	<5	<5	<5	<5
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU	BDL(<0.1)	BDL (<0.1)	< 0.1	< 0.1	<0.1	< 0.1	< 0.1
5	Total Dissolved Solids, mg/l	438	643	731	589	1162	785	179
6	Electrical Conductivity, µS/cm	752	1078	1132	934	1724	1187	247
7	Total Hardness (as $CaCO_3$), mg/l	173.08	336.54	336.54	269.23	625	307.69	90.38
8	Calcium (as Ca), mg/l	53.85	103.85	76.92	72.31	150	76.92	26.92
9	Magnesium (as Mg), mg/l	9.35	18.69	35.05	21.5	60.75	28.04	17.63
10	Chlorides (as Cl^-), mg/l	74.66	124.43	105.29	40.2	153.14	148.36	21.06
11	Sulphate (as SO_4), mg/l	102.5	136.87	66.25	44.5	518.75	131.25	17.63
12	Iron (as Fe), mg/l	BDL (< 0.01)	BDL (<0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)
13	Total Chromium (as Cr), mg/l	BDL (<0.01)	BDL (<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
14	Arsenic (as As), mg/l	BDL (<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
15	Lead (as Pb), mg/l	BDL (<0.01)	BDL(<0.1)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL (<0.01)
16	Silica (as SiO2) mg/l	14.3	14.1	18.81	24.9	8.5	15.3	12.56
17	Mercury, mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Appearance	Clear	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
19	Appearance after	Clear	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable

	Filtration							
20	Methyl orange Alkalinity as CaCO3 mg/l	65.96	203.7	329.8	270	145.5	203	46.56
21	P- Alkalinity mg/l	ND	ND	ND	ND	ND	ND	ND
22	Non-Carbonate Hardness (as CaCO3 mg/l	107	132.8	6.7	ND	479	104.7	43.68
23	E coli MPN/100ml	ND	ND	ND	ND	ND	ND	ND
24	Total coliform, MPN/100ml	ND	ND	ND	ND	ND	ND	ND

7.2 SURFACE WATER:

TABLE 7.2.1: RESULTS OF SURFACE WATER MONITORING

		Quarter I (Apr 2021 to June 2021)		
S. No.	**Parameter**	**Barlan Pond**	**Kawai Pond**	**Parvan River**
1	pH (at 25 °C)	8.02	7.38	8.06
2	Colour, Hazen	<5	<5	<5
3	Odour	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU	38	2.4	6
5	Total Dissolved Solids, mg/l	1060	1216	285
6	Electrical Conductivity, µS/cm	1774	2035	478
7	Total Hardness (as $CaCO_3$), mg/l	225.49	450.98	164.71
8	Calcium (as Ca), mg/l	43.14	192.16	29.8
9	Magnesium (as Mg), mg/l	28.59	54.79	21.92
10	Chlorides (as Cl^-), mg/l	194.76	161.51	22.8
11	Sulphate (as SO_4), mg/l	50	350	23.44
12	Iron (as Fe), mg/l	BDL (<0.01)	BDL (<0.01)	BDL (< 0.01)
13	Total Chromium (as Cr), mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
14	Arsenic (as As), mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
15	Lead (as Pb), mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
16	Silica (as SiO2) mg/l	8.00	7.52	22.38
17	Mercury ,mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Appearance	Not Agreeable	Not Agreeable	Agreeable
19	Appearance after Filtration	Agreeable	Not Agreeable	Agreeable
20	Methyl orange Alkalinity as CaCO3 mg/l	400	80	168

21	P- Alkalinity mg/l	ND	ND	ND
22	Non-Carbonate Hardness (as CaCO3 mg/l	ND	370.98	ND
23	E coli MPN/100ml	ND	ND	ND
24	Total coliform, MPN/100ml	ND	ND	ND

	Quarter II (Jul-2021 to Sep-2021)			
S. No.	**Parameter**	**Barlan Pond**	**Kawai Pond**	**Parvan River**
1	pH (at 25 °C)	7.97	8.02	8.01
2	Colour, Hazen	<5	<5	<5
3	Odour	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU	41	8.2	BDL (<0.1)
5	Total Dissolved Solids, mg/l	108	126	258
6	Electrical Conductivity, µS/cm	182	181	404
7	Total Hardness (as $CaCO_3$), mg/l	59.62	61.54	153.85
8	Calcium (as Ca), mg/l	17.69	17.69	36.92
9	Magnesium (as Mg), mg/l	3.74	4.21	14.95
10	Chlorides (as Cl^-), mg/l	10.53	10.53	21.06
11	Sulphate (as SO_4), mg/l	13.25	13.37	17.63
12	Iron (as Fe), mg/l	BDL (<0.01)	BDL (<0.01)	BDL (< 0.01)
13	Total Chromium (as Cr), mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
14	Arsenic (as As), mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
15	Lead (as Pb), mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
16	Silica (as SiO2) mg/l	7.5	6.85	18.29
17	Mercury, mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Appearance	Not Agreeable	Not Agreeable	Agreeable
19	Appearance after Filtration	Agreeable	Agreeable	Agreeable
20	Methyl orange Alkalinity as CaCO3 mg/l	59	62	155.2
21	P- Alkalinity mg/l	ND	ND	ND
22	Non-Carbonate Hardness (as CaCO3 mg/l	ND	ND	ND
23	E coli MPN/100ml	ND	ND	ND
24	Total coliform, MPN/100ml	ND	ND	ND

8 STP WATER

The measurements were conducted during the period of April 2021 to June 2021. The parameters covered in the monitoring are depict below:

TABLE 8.1: RESULTS OF STP WATER

Quarter I (Apr 2021 to June 2021)											
S. No.	**Parameter**	**45 KLD 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 New**	**10KLD III Guest House**	**10KLD 3 BHK**	**60KLD STP in Township (Old)**	**10KLD Hospital**
1	pH (at 25°C)	7.50	7.17	6.98	7.09	7.31	7.24	7.35	7.37	7.16	7.03
2	Total Suspended Solid (TSS) mg/l	47	16	22	47	10	36	38	26	37	26
3	Nitrate Nitrogen mg/l	6.33	5.69	6.78	8.74	5.88	6.50	5.69	8.56	6.58	7.54
4	Ammonical Nitrogen (as NH_3-N) mg/l	15.75	6.79	7.60	8.96	4.07	3.26	2.98	1.63	14.12	13.85
5	Biochemical Oxygen Demand (BOD) mg/l	17	11	2	10	15	5.6	5.2	28	25.71	13
6	Chemical Oxygen Demand (COD) mg/l	109.93	73.29	13.32	93.27	79.95	26.65	22.31	148.74	146.57	66.62
7	Total Kjeldahl Nitrogen mg/l	39.11	13.98	19.02	26.88	8.15	6.24	5.43	2.71	18.33	32.59
8	Oil & Grease mg/l	2	6	3	5	4	2	3	4	2	3
9	Free Available Chlorine mg/l	BDL (<0.1)	0.1	BDL (<0.1)	BDL (<0.1)	BDL (0.1)	0.2	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
10	Bioassay Test	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	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	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 2021 to Sep 2021)											
S. No.	**Parameter**	**45 KLD 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 New**	**10KLD III Guest House**	**10KLD 3 BHK**	**60KLD STP in Township (Old)**	**10KLD Hospital**
1	pH (at 25°C)	7.18	7.42	7.33	7.23	7.05	7.09	7.14	7.21	7.18	7.22
2	Total Suspended Solid (TSS) mg/l	74	28	26	27	25	17	54	32	77	17
3	Nitrate Nitrogen mg/l	7.48	7.79	7.79	6.79	7.42	7.23	6.89	8.21	6.59	6.75
4	Ammoniacal Nitrogen (as NH_3-N) mg/l	18.74	32.16	10.42	17.23	10.86	18.09	11.29	12.42	20.26	10.12
5	Biochemical Oxygen Demand (BOD) mg/l	27.5	21.5	8.5	13.5	10.5	14.5	21.5	10.5	25	4.5
6	Chemical Oxygen Demand (COD) mg/l	167.9	169.7	63.86	107.57	98.76	112.79	103.49	81.54	114.05	31.36
7	Total Kjeldahl Nitrogen mg/l	41.78	37.89	13.77	18.29	19.86	18.75	18.72	21.55	37.46	18.11
8	Oil & Grease mg/l	4	4	4	4	4	4	4	5	4	4
9	Free Available Chlorine mg/l	BDL (<0.1)	0.1	BDL (<0.1)	BDL (<0.1)	BDL (0.1)	BDL (0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
10	Bioassay Test	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	90% 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% 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	90% Survival of Fish after 96 hours in 100% effluent

9 ETP WATER

The measurements were conducted during the period of Apr 2021 to June 2021. The parameters covered in the monitoring are depict below:

TABLE 9.1: RESULTS OF ETP OUTLET

S. No.	Parameter	Unit	Quarter I (Apr-2021 to June-2021)	Quarter II (July-2021 to Sep-2021)
1	pH	-	8.07	7.26
2	Total Suspended Solids (TSS)	mg/l	24	25
3	Outlet Temperature	ºC	32	28
4	Chemical Oxygen Demand (COD), mg/l	mg/l	46.64	46.56
5	Copper (as Cu), mg/l	mg/l	0.03	0.02
6	Iron (as Fe) mg/l	mg/l	0.04	0.05
7	Zinc (as Zn) mg/l	mg/l	BDL (<0.01)	0.09
8	Phosphate (as P), mg/l	mg/l	BDL (<0.1)	BDL (<0.1)
9	Oil & Grease, mg/l	mg/l	3	5
10	Sulphide	mg/l	BDL (<0.1)	BDL (<0.1)
11	Free Available Chlorine	mg/l	0.2	BDL (<0.1)

10 ASH RECOVERY WATER

The measurements were conducted during the period of April 2021 to June 2021. The parameters covered in the monitoring are depict below:

TABLE 10.1: RESULTS OF ASH RECOVERY WATER SAMPLE

S. No.	Parameter	Units	Quarter I	
			Ash Recovery Pump House 1	Ash Recovery Pump House 2
1	Lead (as Pb)	mg/l	BDL (<0.01)	BDL (<0.01)
2	Arsenic (as As)	mg/l	BDL (<0.001)	BDL (<0.001)
3	Total Chromium (as Cr)	mg/l	BDL (<0.01)	BDL (<0.01)
4	Cadmium (as Cd)	mg/l	BDL (<0.001)	0.003
5	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)

S. No.	Parameter	Units	Quarter II	
			Ash Recovery Pump House 1	Ash Recovery Pump House 2
1	Lead (as Pb)	mg/l	BDL (<0.01)	BDL (<0.01)
2	Arsenic (as As)	mg/l	BDL (<0.01)	BDL (<0.01)
3	Total Chromium (as Cr)	mg/l	BDL (<0.01)	BDL (<0.01)
4	Cadmium (as Cd)	mg/l	BDL (<0.001)	BDL (<0.001)
5	Mercury (as Hg)	mg/l	BDL (0.001)	BDL (0.001)

11 FLY ASH [SILO]

The measurements were conducted during the period of April 2021 to June 2021. The parameters covered in the monitoring are depict below:

TABLE 11.1: RESULTS OF FLY ASH SAMPLE (Unit I)

S. No.	Parameter	Unit	Quarter I
1	Arsenic (As)	mg/kg	BDL (<0.001)
2	Mercury (Hg)	mg/kg	BDL (<0.001)
3	Lead as Pb	mg/kg	12.46
4	Total Chromium as Cr	mg/kg	8.57

S. No.	Parameter	Unit	Quarter II
1	Arsenic (As)	mg/kg	BDL (<0.001)
2	Mercury (Hg)	mg/kg	BDL (<0.001)
3	Lead as Pb	mg/kg	16.83
4	Total Chromium as Cr	mg/kg	5.91

TABLE 11.2: RESULTS OF FLY ASH SAMPLE (Unit II)

S. No.	Parameter	Unit	Quarter II
1	Arsenic (As)	mg/kg	BDL (<0.001)
2	Mercury (Hg)	mg/kg	BDL (<0.001)
3	Lead as Pb	mg/kg	14.25
4	Total Chromium as Cr	mg/kg	7.06

12 SOIL

The measurements were conducted during the period of April 2021 to June 2021. The parameters covered in the monitoring are depict below:

TABLE 12.1: RESULTS OF SOIL MONITORING

S. No.	Parameter	Quarter I		
		Nimoda Village	Kawai Village	Phulbaroda Village
1	Boron [mg/kg]	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
2	Calcium as CaO [%]	1.12	1.06	1.79
3	Magnesium as MgO [%]	0.89	0.83	1.13
4	Potassium as K2O [%]	0.46	0.32	0.26
5	Iron as Fe [%]	3.46	2.73	3.14
6	Manganese as Mn [mg/kg]	1005.47	1044.36	1049.86
7	Phosphorus [%]	0.0072	0.0037	0.0017

S. No.	Parameter	Quarter II		
		Nimoda Village	Kawai Village	Phulbaroda Village
1	Boron [mg/kg]	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
2	Calcium as CaO [%]	1.22	1.11	1.65
3	Magnesium as MgO [%]	0.71	0.67	0.89
4	Potassium as K2O [%]	0.41	0.38	0.31
5	Iron as Fe [%]	3.61	2.44	3.28
6	Manganese as Mn [mg/kg]	991.56	1032.98	1050.27
7	Phosphorus [%]	0.0069	0.0042	0.0019

ADANI POWER RAJASTHAN LIMITED
2X660 MW KAWAI THERMAL POWER STATIONS

CONTINOUS EMISSION MONITORING RESULTS (Apr-2021)		
Station: Stack Attached to Boiler 1 & 2		
Report type: Mean & Daily		
Time Base: 24 Hour		
Date	**UNIT 1**	**Unit 2**
	PM (mg/Nm$^{3)}$	
2021-04-01 00:00:00	38.22	39.94
2021-04-02 00:00:00	44.05	38.58
2021-04-03 00:00:00	43.14	39.87
2021-04-04 00:00:00	43.66	39.44
2021-04-05 00:00:00	43.31	39.65
2021-04-06 00:00:00	30.96	38.59
2021-04-07 00:00:00	SD	39.69
2021-04-08 00:00:00	SD	40.82
2021-04-09 00:00:00	30.48	40.14
2021-04-10 00:00:00	43.41	39.03
2021-04-11 00:00:00	43.46	32.47
2021-04-12 00:00:00	NA	NA
2021-04-13 00:00:00	NA	NA
2021-04-14 00:00:00	NA	NA
2021-04-15 00:00:00	NA	NA
2021-04-16 00:00:00	NA	NA
2021-04-17 00:00:00	NA	NA
2021-04-18 00:00:00	NA	NA
2021-04-19 00:00:00	41.49	SD
2021-04-20 00:00:00	42.23	SD
2021-04-21 00:00:00	41.68	SD
2021-04-22 00:00:00	41.08	SD
2021-04-23 00:00:00	42.17	SD
2021-04-24 00:00:00	43.63	24.92
2021-04-25 00:00:00	39.24	35.84
2021-04-26 00:00:00	41.05	38.19
2021-04-27 00:00:00	42.84	38.43
2021-04-28 00:00:00	42.81	38.24
2021-04-29 00:00:00	41.26	33.98
2021-04-30 00:00:00	36.94	30.22
Min	**30.48**	24.92
Max	**44.05**	**40.82**
AVG	**40.81**	**36.68**

Note- Data not captured from 12.04.2021 to 18.04.2021 dated due to Network suspension by local Administration

ADANI POWER RAJASTHAN LIMITED
2X660 MW KAWAI THERMAL POWER STATIONS

CONTINOUS EMISSION MONITORING RESULTS (May-2021)		
Station: Stack Attached to Boiler 1 & 2		
Report type: Mean & Daily		
Time Base: 24 Hour		
Date	**UNIT 1**	**Unit 2**
	PM (mg/Nm$^{3)}$	
2021-05-01 00:00:00	34.37	34.79
2021-05-02 00:00:00	35.79	35.2
2021-05-03 00:00:00	35.14	28.77
2021-05-04 00:00:00	38.54	32.34
2021-05-05 00:00:00	39.02	32.75
2021-05-06 00:00:00	33.99	31.46
2021-05-07 00:00:00	41.34	29.7
2021-05-08 00:00:00	41.18	29.55
2021-05-09 00:00:00	41.48	32.43
2021-05-10 00:00:00	42.01	SD
2021-05-11 00:00:00	43.79	SD
2021-05-12 00:00:00	41.3	SD
2021-05-13 00:00:00	35.58	21.64
2021-05-14 00:00:00	31.66	35.32
2021-05-15 00:00:00	35.62	34.35
2021-05-16 00:00:00	38.39	30.07
2021-05-17 00:00:00	37.42	33.72
2021-05-18 00:00:00	41.92	36.37
2021-05-19 00:00:00	39.21	34.89
2021-05-20 00:00:00	40.73	35.15
2021-05-21 00:00:00	38.01	34.19
2021-05-22 00:00:00	38.67	36.21
2021-05-23 00:00:00	37.25	32.29
2021-05-24 00:00:00	42.26	34.51
2021-05-25 00:00:00	40.96	33.92
2021-05-26 00:00:00	40.64	35.7
2021-05-27 00:00:00	40.68	33.87
2021-05-28 00:00:00	41.53	38.42
2021-05-29 00:00:00	43.3	39.06
2021-05-30 00:00:00	40.96	35.31
2021-05-31 00:00:00	43.33	38.74
Min	**31.66**	**21.64**
Max	**43.79**	**38.42**
AVG	**38.87**	**33.10**

ADANI POWER RAJASTHAN LIMITED
2X660 MW KAWAI THERMAL POWER STATIONS

CONTINOUS EMISSION MONITORING RESULTS (June-2021)		
Station: Stack Attached to Boiler 1 & 2		
Report type: Mean & Daily		
Time Base: 24 Hour		
Date	**UNIT 1**	**Unit 2**
	PM (mg/Nm$^{3)}$	
2021-06-01 00:00:00	38.17	36.46
2021-06-02 00:00:00	43.49	40.56
2021-06-03 00:00:00	42.95	40.47
2021-06-04 00:00:00	42.61	39.85
2021-06-05 00:00:00	43.39	39.93
2021-06-06 00:00:00	42.9	40.82
2021-06-07 00:00:00	41.97	38.11
2021-06-08 00:00:00	42.29	SD
2021-06-09 00:00:00	40.77	SD
2021-06-10 00:00:00	41.11	SD
2021-06-11 00:00:00	41.54	SD
2021-06-12 00:00:00	43.4	SD
2021-06-13 00:00:00	41.67	SD
2021-06-14 00:00:00	44.31	SD
2021-06-15 00:00:00	43.94	SD
2021-06-16 00:00:00	43.1	SD
2021-06-17 00:00:00	43.85	SD
2021-06-18 00:00:00	44.17	SD
2021-06-19 00:00:00	42.47	SD
2021-06-20 00:00:00	42.81	SD
2021-06-21 00:00:00	43.46	SD
2021-06-22 00:00:00	43.52	SD
2021-06-23 00:00:00	42.47	SD
2021-06-24 00:00:00	41.03	SD
2021-06-25 00:00:00	42.83	SD
2021-06-26 00:00:00	43	SD
2021-06-27 00:00:00	40.76	SD
2021-06-28 00:00:00	40.54	SD
2021-06-29 00:00:00	40.2	SD
2021-06-30 00:00:00	42.51	SD
Min	**38.17**	**36.46**
Max	**44.31**	**40.82**
Avg.	**42.44**	**39.46**

ADANI POWER RAJASTHAN LIMITED
2X660 MW KAWAI THERMAL POWER STATIONS

CONTINOUS EMISSION MONITORING RESULTS (July-202)		
Station: Stack Attached to Boiler 1 & 2		
Report type: Mean & Daily		
Time Base: 24 Hour		
Date (DD/MM/YY)	**UNIT 1**	**Unit 2**
	PM (mg/Nm$^{3)}$	
2021-07-01 00:00:00	41.07	21.44
2021-07-02 00:00:00	43.12	39.07
2021-07-03 00:00:00	41.77	39.29
2021-07-04 00:00:00	41.03	38.82
2021-07-05 00:00:00	39.62	38.32
2021-07-06 00:00:00	38.61	38.99
2021-07-07 00:00:00	38.97	38.36
2021-07-08 00:00:00	41.24	39.31
2021-07-09 00:00:00	42.12	40.78
2021-07-10 00:00:00	43.22	40.48
2021-07-11 00:00:00	43.27	40.43
2021-07-12 00:00:00	43.18	39.33
2021-07-13 00:00:00	43.65	40.43
2021-07-14 00:00:00	41.1	39.34
2021-07-15 00:00:00	40.54	39.27
2021-07-16 00:00:00	40.5	39.27
2021-07-17 00:00:00	39.92	38.42
2021-07-18 00:00:00	43.15	37.85
2021-07-19 00:00:00	42.4	39.87
2021-07-20 00:00:00	39.53	40.65
2021-07-21 00:00:00	40.7	36.96
2021-07-22 00:00:00	41.95	SD
2021-07-23 00:00:00	41.69	SD
2021-07-24 00:00:00	41.33	SD
2021-07-25 00:00:00	41.88	21.57
2021-07-26 00:00:00	40.24	39.97
2021-07-27 00:00:00	43.1	38.26
2021-07-28 00:00:00	40.3	40.3
2021-07-29 00:00:00	43.2	39.56
2021-07-30 00:00:00	43.35	39.17
2021-07-31 00:00:00	45.18	39.09
Min	**38.61**	**21.44**
Max	**45.18**	**40.78**
AVG	**41.64**	**38.02**

ADANI POWER RAJASTHAN LIMITED
2X660 MW KAWAI THERMAL POWER STATIONS

CONTINOUS EMISSION MONITORING RESULTS (Aug-2021)		
Station: Stack Attached to Boiler 1 & 2		
Report type: Mean & Daily		
Time Base: 24 Hour		
Date (DD/MM/YY)	**UNIT 1**	**Unit 2**
	PM (mg/Nm$^{3)}$	
2021-08-01 00:00:00	43.51	36.22
2021-08-02 00:00:00	43.24	38.36
2021-08-03 00:00:00	39.79	38.43
2021-08-04 00:00:00	41.28	40.36
2021-08-05 00:00:00	41.14	40.8
2021-08-06 00:00:00	42.92	37.94
2021-08-07 00:00:00	43.84	37.31
2021-08-08 00:00:00	42.59	40.81
2021-08-09 00:00:00	43.43	37.01
2021-08-10 00:00:00	44.19	33.44
2021-08-11 00:00:00	43.42	38.47
2021-08-12 00:00:00	44.05	39.27
2021-08-13 00:00:00	44.76	40.04
2021-08-14 00:00:00	44.37	41.71
2021-08-15 00:00:00	43.98	40.55
2021-08-16 00:00:00	42.11	40.5
2021-08-17 00:00:00	43.08	39.23
2021-08-18 00:00:00	42.66	40.15
2021-08-19 00:00:00	42.2	39.64
2021-08-20 00:00:00	42.57	38.38
2021-08-21 00:00:00	42.96	38.27
2021-08-22 00:00:00	42.6	39.17
2021-08-23 00:00:00	43.2	39.55
2021-08-24 00:00:00	41.28	24.81
2021-08-25 00:00:00	39.79	SD
2021-08-26 00:00:00	39.39	SD
2021-08-27 00:00:00	40.68	SD
2021-08-28 00:00:00	40.1	SD
2021-08-29 00:00:00	40.15	SD
2021-08-30 00:00:00	40.96	SD
2021-08-31 00:00:00	40.79	SD
Min	**39.39**	**24.81**
Max	**44.76**	**41.71**
AVG	**42.29**	**38.35**

ADANI POWER RAJASTHAN LIMITED
2X660 MW KAWAI THERMAL POWER STATIONS

CONTINOUS EMISSION MONITORING RESULTS (Sep-2021)		
Station: Stack Attached to Boiler 1 & 2		
Report type: Mean & Daily		
Time Base: 24 Hour		
Date (DD/MM/YY)	**UNIT 1**	**Unit 2**
	PM (mg/Nm$^{3)}$	
2021-09-01 00:00:00	40.41	S/D
2021-09-02 00:00:00	39.08	S/D
2021-09-03 00:00:00	40.09	S/D
2021-09-04 00:00:00	39.86	S/D
2021-09-05 00:00:00	41.13	S/D
2021-09-06 00:00:00	40.45	S/D
2021-09-07 00:00:00	40.97	S/D
2021-09-08 00:00:00	41.86	S/D
2021-09-09 00:00:00	41.7	S/D
2021-09-10 00:00:00	42.55	S/D
2021-09-11 00:00:00	43.58	19.35
2021-09-12 00:00:00	42.64	34.63
2021-09-13 00:00:00	41.98	40.6
2021-09-14 00:00:00	42.75	31.69
2021-09-15 00:00:00	43.24	34.63
2021-09-16 00:00:00	43.13	34.71
2021-09-17 00:00:00	38.56	34.79
2021-09-18 00:00:00	38.74	34.76
2021-09-19 00:00:00	39.57	34.76
2021-09-20 00:00:00	38.45	34.84
2021-09-21 00:00:00	39.81	34.69
2021-09-22 00:00:00	37.12	34.62
2021-09-23 00:00:00	40.73	34.53
2021-09-24 00:00:00	38.19	34.7
2021-09-25 00:00:00	36.99	34.51
2021-09-26 00:00:00	38.17	34.52
2021-09-27 00:00:00	41.67	34.78
2021-09-28 00:00:00	36.37	34.71
2021-09-29 00:00:00	S/D	34.73
2021-09-30 00:00:00	S/D	34.81
Min	**39.08**	**19.35**
Max	**43.58**	**40.6**
Avg	**41.25**	**33.80**

Annexure – II

ADANI POWER RAJASTHAN 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-2021	24 Meter	26 Meter	27 Meter
2.	May-2021	29 Meter	27 Meter	30 Meter
3.	June-2021	9 Meter	15 Meter	18 Meter
4.	July-2021	4 Meter	18 Meter	11 Meter
5.	Aug-2021	2 Meter	09 Meter	05 Meter
6.	Sep-2021	3 Meter	11 Meter	08 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)

Annexure-III

Adani Power Rajasthan Limited

2 x 660 MW Kawai Thermal Power Station

Ash Generation, Utilization and Disposal Details (MT/Month)

S. No.	Month	Total Ash Generation	ASH UTILIZATION			Dispoal In Ash Dyke	Total Ash Utilization	Percentage of Ash utilization	Balance in Ash Silo (Cumulative #)
			For Brick Construction	For Cement Manufacturing	Reclamation of Low Lying area				
1	Apr-21	139153.00	80135	78806	0	58793.63	158941.00	114.22	3000.00
2	May-21	129851.00	37345	84500	0	47150.96	121845.00	93.83	1200.00
3	Jun-21	100668.00	14535	86562	0	15100.15	101097.00	100.43	206.00
4	Jul-21	158002.00	6105	121710	0	31600.37	127815.00	80.89	4898.00
5	Aug-21	126938.00	0	70595	15200	56187.50	85795.00	67.59	1853.00
6	Sep-21	132212.00	0	72047	15000	60342.39	87047.00	65.84	1675.00
Total		**786824.00**	**138120.00**	**514220.00**	**30200.00**	**269175.00**	**682540.00**	**86.75**	**1675.00**

Balance in Silo-1675 MT

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Power

Ref No.: APRL/ENV/MoEF/265/07/21
Date: 12/07/2021

To,
Additional Principal Chief Conservator of Forest (APCCF)
Regional Office (Central Region)
Ministry of Environment, Forest & Climate Change (MoEFCC)
Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj,
Lucknow – 226 024

Kind Attn.: **Dr. A K Gupta, Joint Director**

Sub: Advisory regarding implementation of Notification No. G.S.R. 02 (E) dated 2nd January 2014 for supply and use of Coal with Ash content – regarding

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

Dear Sir,

With above subject matter, we are submitting herewith the compliance of said notification.

Ash content data regarding supply and use of coal with ash content not exceeding 34% in the Coal based Thermal Power Plant as per Notification No. G.S.R. 02 (E) dated 2nd January 2014.

We are enclosing herewith the monthly as well as quarterly **Average Ash Content** in the coal used by our power plant during the period of **April'20 to June'2020** as Annexure -I.

Total Capacity of TPP: 1320 MW

This is for your kind information & record please.

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

(R N Shukla)
Encl.: As above

Adani Power Rajasthan Ltd
Adani Corporate House
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Ahmedabad 382 421
Gujarat, India
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ADANI POWER RAJASTHAN LTD.

Annexure - I

ASH PERCENTAGE IN COAL

(FROM APRIL'21 TO JUNE'2021)

Month	Coal Consumption (MT)	Ash % in Coal
April'2021	425,483	32.70
Ma'2021	435,264	29.83
June'2021	312,535	32.21
Quarterly Average		**31.50**

MT: Metric Tonne

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Power

Ref: APRL/ ENV/CAC/05/Q2/21
Date: 19/10/2021

To,
Additional Principal Chief Conservator of Forest (APCCF)
Regional Office (Central Region)
Ministry of Environment, Forest & Climate Change (MoEFCC)
Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj,
Lucknow – 226024 (Uttar Pradesh)

Sub.: Advisory regarding implementation of Notification No. G.S.R. 02(E) dated: 2nd January 2014 for supply and use of coal with ash content for Kawai Thermal Powerplant – regarding.

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

Dear Sir,

With reference to above subject matter, we are submitting herewith the compliance of said notification,

The half-yearly compliance reports of fly ash management for environmental safeguards stipulated in the EC and Consent are being regularly submitted to both the Regional offices of MOEF&CC, Lucknow as well as Rajasthan State Pollution Control Board (RSPCB). We are also submitting the half-yearly and annual reports of fly ash to Central Electricity Authority (CEA) since plant operation.

We are enclosing herewith the monthly as well as **Quarterly Average Ash Content** in the coal used by our plant during the period of **July 2021 to September 2021** as **Annexure – I**.

Total capacity of TPP: 2 x 660 MW **(1320 MW)**

This is for your kind information and record please.

Thanking You,
Your's faithfully,
for **Adani Power Rajasthan Limited**

(R N Shukla)

Encl: As above.

Adani Power Rajasthan Ltd
Adani Corporate House
Shantigram, S G Highway
Ahmedabad 382 421
Gujarat, India
CIN: U40104GJ2008PLC052743

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Annexure – I

ADANI POWER RAJASTHAN LIMITED

ASH PERCENTAGE IN COAL

(From July 2021 to September 2021)

Sl. No.	Month	Coal Consumption (in MT)	Ash content in Coal (in %)
1.	July 2021	479,956	32.92
2.	August 2021	371,283	34.18
3.	September 2021	380,764	34.72
Quarterly Average (%)		---	**33.86 %**

MT: Metric Tonne

Adani Power Rajasthan Limited, Kawai

Annexure: IV

Greenbelt Details:

Green belt Area developed (ha)	No. of Trees Planted	No. of Shrubs Planted
108.00	1,09,466	1,75,000

PLANTED SPECIES IN AND AROUND PLANT PREMISES

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

adani

Foundation

Corporate Social Responsibility

Six month Report 2021-22

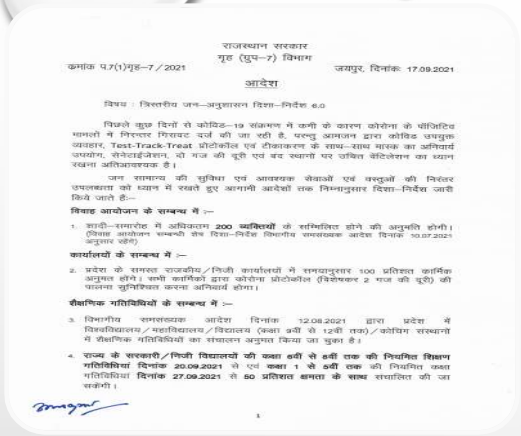
Adani Foundation, Kawai


adani
Growth with Goodness
Growth
With Goodness

Education

- Govt. of Rajasthan Reopen schools for 1st to 12th standard from September 2021. Strict Covid-19 guidelines shall be followed by all schools.
- 6 Senior secondary school visited for survey under Library upgradation project.
- JNV coaching-
  - Total 11 village level coaching centers running and cover 76 students from 15 vicinity Govt. schools.
  - JNV selection test completed on 11th August. 71 students appeared.
  - JNVST result declared and 2 student selected from Kawai center.
- Visit to Haniheda school and collect information and basic details of available infrastructure facilities and requirement of school under Need base infrastructure support in schools.
- To provide better education in the nearby area of Kawai- Mobilize and coordinate for admission at Adani Vidyalaya, Total 46 outside admission done.
- Provide support to Adani vidyalaya to conduct Parents orientation program for new and outside admission.
- Sanitized 4 school premises of cluster 1 during sanitization activity carried out in villages.
- As received request and to fulfill real need handover water cooler to Jawahar Navodaya Vidyalaya Atru.
- Visit to JNV for discussion with Principal for development of Safety park under initiative of APRL.

Education



राजस्थान सरकार
गृह (ग्रुप–7) विभाग

क्रमांक प.7(1)गृह–7/2021 जयपुर, दिनांक 17.09.2021

आदेश

विषय : त्रिस्तरीय जन–अनुशासन दिशा–निर्देश 6.0

पिछले कुछ दिनों से कोविड–19 संक्रमण में कमी के कारण कोरोना के परिप्रेक्ष्य में निरन्तर रियायत दर्ज की जा रही है, परन्तु आमजन द्वारा कोविड उपयुक्त व्यवहार, Test-Track-Treat प्रोटोकॉल एवं टीकाकरण के साथ–साथ मास्क का अनिवार्य उपयोग, सेनेटाईजेशन, दो गज की दूरी एवं भीड़ स्थानों पर उचित वेंटिलेशन का ध्यान रखना अतिआवश्यक है।

जन सामान्य की सुविधा एवं आवश्यक सेवाओं एवं वस्तुओं की निरंतर उपलब्धता को ध्यान में रखते हुए आगामी आदेशों तक निम्नानुसार दिशा–निर्देश जारी किये जाते हैं:–

विवाह आयोजन के सम्बन्ध में :–

1. शादी–समारोह में अधिकतम **200 व्यक्तियों** के सम्मिलित होने की अनुमति होगी। (विवाह आयोजन सम्बन्धी शेष दिशा–निर्देश विभागीय समसंख्यक आदेश दिनांक 30.07.2021 अनुसार यथावत रहेंगे)

कार्यालयों के सम्बन्ध में :–

2. प्रदेश के समस्त राजकीय/निजी कार्यालयों में समयानुसार 100 प्रतिशत कार्मिक उपस्थित होंगे। सभी कार्मिकों द्वारा कोरोना प्रोटोकॉल (विशेषकर 2 गज की दूरी) की पालना सुनिश्चित करना अनिवार्य होगा।

शैक्षणिक गतिविधियों के सम्बन्ध में :–

3. विभागीय समसंख्यक आदेश दिनांक 12.08.2021 द्वारा प्रदेश में विश्वविद्यालय/महाविद्यालय/विद्यालय (कक्षा 9वीं से 12वीं तक)/कोचिंग संस्थानों में शैक्षणिक गतिविधियों का संचालन अनुमत किया जा चुका है।

4. **राज्य के सरकारी/निजी विद्यालयों की कक्षा 6वीं से 8वीं तक की नियमित शिक्षण गतिविधियां दिनांक 20.09.2021** से एवं **कक्षा 1 से 5वीं तक** की नियमित कक्षा गतिविधियां **दिनांक 27.09.2021** से **50 प्रतिशत क्षमता के साथ** संचालित की जा सकेंगी।

Order for Schools reopen

Library status

Library construction @Aton

Admission card distribution

Classroom construction site @ Haniheda

Water cooler handover to JNV

Safety park development @ JNV

Sanitization carried out @Dhara school

Overview of Kawai Site

At present we are working in 28 villages, 14 Gram Panchayats, 1 Block of district Baran.
12,294 household, 61,671 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)	Cluster Two (Pipe Line Zone)	Cluster Three (Anicut Area)	Cluster Four (Buffer Zone)
• Chatrapura • Baldevpura • Dhara • Nimoda • Khedligaddiyan • Salpura • Kawai • Mukundpura	• Sodalehri • Kharkhada Ramlothan • Dadwara • Bamori • Chothya • Mytha • Hatidilod • Phoollbaroda • Zarkhand	• Atru • Aton • Baldevpura (anicut) • Kunjer	• Aamapura • Bamapura • Lolahedi • Sindhani • Haniheda • Barla • Khedli bansla

Adani Vidyalaya, Kawai

- **Study on virtual platform:**
  - Teachers educate the children through live sessions, videos and stories to inculcate good habits in growing children.
  - The first terminal examination conducted in September month.
  - AVK has taken the initiative for New admission from outside of township.
- **Event celebration and extracurricular activities @ AVK:**
  - Independence day celebrated @AVK.
  - RakshaBandhan & Janmasthmi celebrated @AVK.
  - Teachers day celebrated @Adani Vidyalaya.
  - Ganesh Chaturthi & Hindi Divas celebrated @Adani Vidyalaya.
  - All the students of AVK did pencil sketching, made greeting cards and wished to Respected Priti madam on her birthday.
  - Fire and Safety department Organize Poster making competition for AVK students.
- **Fire fighting training conducted by Safety department to AVK staff.**
- **Parents orientation program:**
  - The details of the school like activities, syllabus, examination pattern etc. discussed with the parents.
  - Open session answered by Principal, HR head and Station head sir.
  - Hard copy of Consent form as well as rules and regulation as per government guidelines regarding reopening of school distributed.

Adani Vidyalaya, Kawai

AVK online classes

Independence day @AVK

Janmasthami @AVk

Rakshabandhan @AVK

Teachers day @AVK

Ganesh Chaturthi @AVK

Fire fighting training @AVK

Parents orientation program

Community Health

- **Support to District administration for Coved-19:**
  - Establishment of Oxygen plant at District hospital Baran.
- **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	Blood sugar testing	Referred cases	Awareness session
April	1312	1190	2502	10	12	0
May	1433	1303	2736	12	12	0
June	1240	976	2216	17	4	0
July	1388	1399	2787	23	4	3
August	2179	2022	4201	29	5	9
September	2455	2225	4680	29	4	10
Total	**10007**	**9115**	**19122**	**120**	**41**	**22**

- **Health check-up camp:-**
  - Organize health check-up camp for labours at Parwan river (Chothya- Mytha) bridge construction site. Total 32 labour benefited.
  - Additional health camp in Atru and Kawai villages on 1st & 3rd Saturday. Total 15 camp conducted.

Community Health

MHCU @ Mukundpura

MHCU @ Haniheda

MHCU @ Kunjer

MHCU @ Bamori

MHCU @ Khedli bansla

MHCU @ Dilodhathi

MHCU @ Lolahedi

MHCU @Salpura basti

Community Health (Case Study)

Case Study

- Mohan Lal Ji is 77 years old; He lives alone in Mukundpura Village. He has 2 sons, and His sons live in Baran. He is fully depended on our MHU project for primary treatment because His financial condition is not good. He has no source of income to live a better life.
- He is suffering from General illness and Joint Pain from Last two year. one year back He was very sad he can not able to walk due to joint pain and weakness problem.
- One year back his neighbour Nawal Kishore Came to our MHU Site and tell all problem to our staff. MHCU Team went to his home and started treatment. Now he is healthy.
- Nowadays Mr. Mohan lal comes from his house to our MHCU van. Our Doctor and Pharmacist together assure and suggest him to maintain passions and to take the medicines time to time.
- Adani CSR Team is taking regular follow up on his treatment.
- Now He is very happy and his health has 80% improved. MHU team go to every Wednesday to Mukundpura.
- He is very thankful to Adani Foundation and HelpAge India together.

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Testimonial

I am Very happy and I am totally satisfied with this Service. I receive Medicine At Village level every week. I am very happy because I am not feeling alone because MHCU team take care of me like a family

I am very thankful to Adani Foundation for provide me batter treatment at village.

Mr. Mohan Lal

Community Health (Case Study)

Case Study

- Mrs. Pana Bai is 79 years old. She lives in Dadwara Village with her Family. She was a son and a daughter She is fully depended on MHU project for Primary Health treatment.
- Mrs. Pana Bai is regular Beneficiary from last Three year. She is suffering from Hypertension and general illness from last Three year.
- Three year back her treatment was going on from Private Hospital, Kota but she did not able to go Kota continuously due to long distance and high cost of treatment. She was very sad and her health was worse day by day.
- Three years back She knew about our free of cost treatment at village level. She was very happy to knows this.
- She came to MHU site and told all problems to our MHU team. Doctor diagnosed her after checking her reports. MHU Doctor prescribed medicine Amlodipine 5 Mg tablets and Pantoprazole tablets regularly.
- MHU Doctor suggested her to take regular treatment from MHU, Now her Health condition is very well.
- Adani CSR Team taking regular follow-up her treatment.

Testimonial

I am very thankful to HelpAge team because they take care of me like a family.

I am Very Happy with MHCU Project.

I am very thankful to Adani Foundation for provide batter treatment at village.

.

Mrs. Pana Bai

Sustainable Livelihood

PASHUDHAN: –

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

- 220 Cattle covered thru Artificial insemination in 1st six month of 2021-22.
- 166 new calf born in 1st six month of 2021-22.
- 1020 cattle covered thru vaccination.
- Feed supplementary support to 70 Farmers.
- Travis installation in 4 vicinity villages- Haniheda, Dhara, Nimoda and Bamori.
- Farmers meeting for linkages with Dairy scheme at Mukandpura– 18 participants.
- Organized Calf rally at Bamori village: Station head APRL and Joint director Animal husbandry were Chief guest and motivates to farmers.

Sr. No.	Particular	Achievement till Sept 2021
1	Artificial Insemination	2781
2	Pregnant	1384
3	Calves	940
4	Vaccination	7008

Sustainable Livelihood

Female calf born

Vaccination camp

Feed supplementary support

Travis installation

Calf rally at Bamori village

Calf rally at Bamori village

Meeting with farmers

Cattle treatment

Sustainable Livelihood

KRISHI KOUSHAL: -

- Fodder seed distribution to 160 Farmers.
- Support of Feed supplementary to Farmers – 100 Farmers benefited.
- Orchard development program:
  - Fruiting started under Orchard development project.
  - Now farmers started intercropping system in their fields and new farmers are sampling with their own level.
- Orchard development – 3241 fruit plant distributed to 60 farmers.
- Land holding survey completed with 140 farmers.

Institution Building –

- Monthly meeting conducted at 12 villages for awareness on livestock management and agriculture practice.
- Total 44 monthly meetings conducted and more than 800 women participated.
- Livelihood Calendar released by District collector and Station head APRL.

Sustainable Livelihood

Fodder seed distribution

Livelihood calendar released

Fruit plant distribution

Fruit plant distribution

Monthly meeting @Haniheda

Monthly meeting @Phoolbarod

Monthly meeting @Dilodhathi

Well grown Orchard

Sustainable Livelihood (Case Study)

Case Study

- **Mr. Brajmohan Sahriya** - Nimoda village (Family - 2 female, 1 male, 02 Child) Mr. Brajmohan sahriya is a farmer of tribal dominant of Atru block and is working hard in his field for his family survival. But due to lack of resources and technical knowledge he was not getting the desirable output even with his sufficient land holding for his existence.
- Later on after the start of Adani foundation Livelihood project, he came in contact us in 2017-18. We provide training and technical guidance to Mr. Brajmohan and financial assistance like: - Vegetable seed and fruit plants.
- Now he practices for integrated farming system in his farm by growing vegetable and orchards. He also planted fruit plants by himself and planted 30 Payaya plants in small area for his family consumption and livelihoods.
- By adopting this model, Mr. Brajmohan known as a successful farmer in village. Adani foundation provided improved variety seed for growing vegetables like - Chili, Brinjal, Tomato, carrot, Watermelon and cucumber.
- Mr. Sahriya has sold vegetable and fruits at local market like own village and vegetable shops. He earned around 10,000 to 12,000 from selling of vegetables. His family livelihood improved and easy survive in period of Covid pandemic.

Sustainable Livelihood (Case Study)

Case Study

- **Mr. Chhitar lal meena-** Amapura village (04 Member in family) Mr. Chhitar lal meena is a farmer of Amapura village near Kawai and is working hard in his field for his family survival. But due to lack of awareness on agriculture and knowledge of vegetable seeds, he was not getting the desirable output even with his sufficient land holding for his existence.
- Later on after the start of Adani Foundation livelihood project, He connected with CSR team in 2017-18. AF provide training and exposure to Mr. Chhitar lal Meena and financial assistance like: - Vegetable seed and fruit plants. Now he practices for develop Wadi model in his farm by growing vegetable and orchards. He also sowing vegetable crops by himself for his family consumption and livelihoods.
- Adani foundation provided improved variety seed for growing vegetables like - Brinjal, Tomato, carrot in first year and Second year we provided chick pea, Watermelon and cucumber seeds.
- Mr. Chhitar sold to vegetable and fruits at local market like own village and vegetable shops. He earned around 15,000 to 20,000 from selling of vegetables.
- Mr. Chhitar lal and his family shown gratitude towards Adani foundation for providing such great support and assistance to survive in this tough pandemic time.

SAKSHAM

Trainings:

Sr. No.	Courses	Training ongoing	Training completed	Revenue generate
1	Self Employed Tailor	15	15	12000
2	Beauty Therapist	15	30	18000
3	Basic Functional English	-	2	1198
	Total	**32**	**45**	**31,198**

Meeting and mobilization in nearby villages:

- Mobilization activity conducted at Kawai, Nayagaon, Haniheda and Phoolbaroda village for admission.
- Explore and search for center establishment at Baran city area.
- Meeting with female candidate for admission in SET and B&W course at Baran city.
- We organize video conference with trainee and trainer about self employment, self empowerment and career counseling.
- District Collector interact with trainees and asked how they feel after skilled and guide for better employment/ self-employment.
- Digital Literacy certificate distribution to trainee at Kawai center.
- Provide livelihood platform to our trainees; At shopping complex of APRL develop a selling corner where our trainees sale self made and stitched product and Beauty services.
- Selling corner inaugurated by Station Head APRL in presence of Head HR and Commercial department Head.

SAKSHAM

Demonstration of Hair style

Demonstration of threading

SET classes @ Dhara village

SET classes @ Salpura village

Certificate distribution

Mobilization @ Nayagaon

Mobilization @ Salpura

Mobilization @ Baran

SAKSHAM (Success Story)

Mother in law, In India generally where we know as a strict, bossy, nosy and against to her daughter in law in every situation.

Mrs. Vidhya Galav is a 60-year-old illiterate widow lady live in Kawai with her family. Her son and son in law both doing agriculture work at farm. Both family struggling for better livelihood because agriculture is completely dependent on Monsoon, so uncertainty is always in her mind.

One day Mrs. Vidya Galav heard to some ladies about skill classes as run by Adani plant. She contact to us and take all details of courses. In sequence of mobilization meeting, she come with her daughter and daughter in law and detail discuss about offered courses. She willing to send both daughter and daughter in law for enroll for Beauty therapist course.

But both girls showing interest but deny to attend course because they both have 2- & 3-year baby. And with dual responsibility they not able to join classes.

In this situation Mrs. Vidya Galav own the responsibility of take care of both kids and family also. After the support of mother-in-law both girl- Divya Galav and Monika Galav enroll herself in Beauty therapist course as offered by Adani skill development centre. During training tenure of 2 month Mrs. Vidya Galav take all responsibility of her grand son and daughter. And allow and guide to Divya and Monika for Concentrate on classes.

Monika said- For supporting in this situation my mother give me real gift to empower myself and improve my self-confidence as I lose after leave study and after marriage. Currently Monika running Beauty parlor at home and selling beauty products and earning approx. Rs. 3000 and supporting in her house for better life.

And **Divya Galav said-** my mother-in-law really play a role model for me to pursue my dream. Nowadays I feel; I will complete all my dreams with support of my in laws. Transformation of my life from housewife to an entrepreneur all credit goes to my in laws especially to my mother in law and of course ASDC to make me SAKSHAM. Now, I am independent and going to open my own shop and Beauty parlor after an adequate experience and expertise of beauty services. Till now I earn approx. Rs. 4500 monthly and hopefully I will increase my income with new shop & beauty parlor and support to family in better way.

For this goodness act of Mrs. Vidya Galav empower her both daughter and set an example among our society how to empower and backing to family. Mrs. Vidhya Galav is very glad and said now my both daughter doing good work and handling to family.

All Galav family appreciate to SAKSHAM courses and showing gratitude towards Adani Skill Development Centre.

SaHAJ

“ SaHAJ” Sanitation and Health awareness joint-venture.

- Organized 14 small group meetings at village level for aware about menstrual hygiene and benefit of use sanitary pads.
- In SAHAJ project 5 ladies involve into manufacturing and packaging and 25 village facilitator working for awareness, marketing and selling of Sanitary pad.
- Manufacturing of Sanitary pad ongoing at Labor colony center.
- Market linkage and start selling of Sanitary pad in all 27 vicinity villages through village facilitator.
- In SAHAJ project 5 ladies involve into manufacturing and packaging and 25 village facilitator working for awareness, marketing and selling of Sanitary pad.

SaHAJ

Manufacturing of Sanitary pad

Marketing & Selling in villages

Village level meeting @

Village level meeting @

Sanitary pad distribution in surrounding villages

Birthday of Hon'ble Chairman

- 24th June the auspicious occasion Birthday of Hon'ble chairman Shri Gautam Adani; Celebrated at Kawai with full of fanatism.
- Total 59 tree planted as no. of years completed by our chairman.
- Approx. 100 people participated from various locations of CSR working villages. Stakeholders participates like School staff, Aanganwadi staff, Public leaders, key person, Adani employees and other connected people with our CSR programs.
- Community wishing to chairman sir with taking the responsibility of survival of plantation.

Birthday of Hon'ble Chairman

Tree plantation @APRL

Tree plantation @Aanganwadi

Tree plantation @Village

Tree plantation @School

Tree plantation @Gram panchayat

Tree plantation @School

District Collector visit

- On 3rd June 2021 District collector Baran visit and appreciate initiatives of Adani foundation.
- Hon'ble Rajendra Vijay (DM- Baran) visited to various location and appreciate the CSR programs as running in vicinity.
- At Kunjer village- seen the grazing land, do the plantation and interact with local Sarpanch.
- At Dadwara village- Discuss with farmers take feedback about our livelihood programs.
- At Chothya village- Visit the Anicut and Bridge construction site at Parwan river.
- At Adani power plant- We organize a program at community center and explain all our CSR program and present status.
- DM interacted with all program incharge, view the exhibition, discuss about all our running programs.
- ASDC trainee share the success story in front of district collector.
- During visit Station head- APRL, HR head- APRL and Sarpanch of Dhara Gram panchayat were present.
- District collector address- Guide and motivates for continue philanthropic work and appreciate the all efforts of Adani foundation.

District Collector visit

Tree plantation @Kunjer

Appreciate to livelihood program

Visit @ Chothya anicut

View the CSR exhibition

Appreciate to SaHAJ project

Interaction with participants

Employee volunteer program

- Under Employee volunteer program on 11th August a Shopping corner inaugurate by Station head in presence of HR Head, Shopping complex committee chairman and ladies club members.
- Under this initiative we provide livelihood opportunity to nearby women and empower our program SAKSHAM & SaHAJ.
- With this initiative employees get a platform to provide their support to needy people and avail the basic needful services at doorstep.
- Success of initiative is considered under EVP. And it's a path of healthy relationship among stakeholders.
- Ladies Beauty parlor facilities starts at Daily need shop complex Weekly 2 day assign for Ladies saloon.
- Skilled beautician under our SAKSHAM program provide services at Shantigram township.
- Available products & services:- Sanitary pad, Face mask, Bags, Apron, Summer coat, Baby wear& Ladies wear. On order stitching facility, Mehndi & Beauty parlor service.

Employee volunteer program

Shopping corner @ DNS

Inauguration by Station head

Shopping @ Daily need shop

Shopping @ Daily need shop

Group photo @ Daily need shop

Beauty parlor @ DNS

Beauty parlor @ DNS

Monthly payment

Foundation Day Celebration

- **Silver jubilee celebration of Adani foundation @ Kawai**.
- All stakeholders of Adani foundation greets and shown gratitude on foundation day occasion.
- People express their feelings through video messages as shared during video conference event.
- Team Kawai attended Video conference celebration as organized by Head office.
- Team Kawai after event went to Mahankali mandir and pray for all Adani foundation family.

MHCU Beneficiary

SaHAJ Beneficiary

ASDC Beneficiary

Virtual celebration with HO

Birthday of Hon'ble Chairperson

- 29th August the auspicious occasion Birthday of Hon'ble chairperson Dr. Priti G Adani celebrated at Kawai with full of fanatism.
- Total 11 tree planted in School premises.
- Approx. 60 people participated from Mukandpura village. Stakeholders participates like School staff, Aanganwadi staff, key person and other connected people with our CSR programs.
- At Mukundpura school prepared a beautiful Rangoli. And cut the cake with hand of our Oldest beneficiary .
- Community wishing to chairperson and shown gratitude towards running programs.




Celebration @ Mukundpura with various activity

Media Coverage

पशु नस्ल सुधार कार्यक्रम में किया वत्स रैली का आयोजन

न्यूज सर्विस/नवज्योति, बारां/कवाई।

अदानी फाउंडेशन द्वारा संचालित पशुधन विकास कार्यक्रम अंतर्गत ग्राम बमोरी में बुधवार को पशु वत्स रैली निकाली। गांव के 40 बछड़ियो को शामिल किया।

कार्यक्रम में अदानी पॉवर प्लांट हेड आनंद चटर्जी एवं संयुक्त निदेशक पशुपालन विभाग हरिबल्लभ मीणा मुख्य अतिथि के रुप में शामिल हुए। संयुक्त निदेशक ने पशुपालकों को बताया कि स्थानीय उन्नत नस्ल के पशुओं में कृत्रिम गभार्धान के माध्यम से उन्नत एवं दुधारू नस्ल की बछड़िया पैदा करना पशुपालकों की आजीविका वृद्धि का सबसे अच्छा माध्यम है साथ ही नर पशुओं का बंधियाकरण करवाना चाहिए।

अदानी पॉवर प्लांट हेड द्वारा पशुपालकों को कृषि के साथ-साथ पशुपालन के माध्यम से आय बढ़ाने के लिए प्रोत्साहित किया। पशुपालकों को कार्यक्रम में जुड़कर अन्य लोगो को प्रोत्साहित करने के लिए बताया। कार्यक्रम में परियोजना अधिकारी रामचरण चौधरी ने उपस्थित सदस्यों को अदानी फाउंडेशन द्वारा संचालित पशुपालन विकास कार्यक्रम की प्रगति से अवगत कराते हुए बताया कि विगत 4 वर्षों में कार्यक्रम के माध्यम से कुल 800 से अधिक बछड़ा बछड़ी क्षेत्र में पैदा हुए हैं जोकि उन्नत नस्ल के हैं। वत्स रैली के दौरान पशुपालन विभाग से वरिष्ठ पशु चिकित्साधिकारी डॉ. सतीश एवं डॉ. बलराम मीणा उपस्थित रहे। इस अवसर पर अदानी फाउंडेशन से पुष्कर सुथार, दीपक मालवीय एवं जेके ट्रस्ट से विजय पारीक, वसीम, गणेश आदि ने अपने विचार व्यक्त किए।

अदानी फाउंडेशन ने बागवानी विकास कार्यक्रम किए

न्यूज सर्विस/नवज्योति, बारां।

अदानी फाउंडेशन द्वारा बागवानी विकास कार्यक्रम के तहत फलदार पौधों के बगीचे के लिए ग्राम बलदेव पुरा, डडवाड़ा, बमोरी, आटोन, कुंजेड, चौथया, हनिहेडा, आमापुरा, कवाई, गांव में पौधे वितरण किए। अदानी फाउंडेशन के परियोजना अधिकारी रामचरण चौधरी ने बताया कि किसानों को उन्नत किस्म के आम, अनार, नींबू, अमरूद एवं बेर के पौधे दिए है। कार्यक्रम के तहत 11 गांवों में 1320 पौधे वितरण किए। सीएसआर हेड गोपाल सिंह देवड़ा ने बताया कि बागवानी विकास कार्यक्रम से आने वाले 3 साल बाद किसानों को फल मिलने लगेगा जो कि किसानों की आमदनी बढ़ाने में मददगार साबित होंगे।

अदानी फाउंडेशन ने बागवानी विकास कार्यक्रम के तहत पौधे किए वितरित

कवाई,13 अगस्त (हाड़ौती संचार ब्यूरो)।

अदानी फाउंडेशन द्वारा बागवानी विकास कार्यक्रम के तहत फलदार पौधों के बगीचे हेतु ग्राम बलदेव पुरा, डडवाड़ा, बमोरी, आटोन, कुंजेड, चौथ्या, हानिहेडा, आमापुरा, कवाई, गांव में पौधे वितरण किए गए। अदानी फाउंडेशन के परियोजना अधिकारी रामचरण चौधरी ने बताया कि किसानों को उन्नत किस्म के आम, अनार, नींबू, अमरूद एवं बेर के पौधे दिए गए है। इस कार्यक्रम के तहत 11 गांवों में 1320 पौधे वितरण किए गए। सीएसआर हेड गोपाल सिंह देवड़ा ने बताया कि बागवानी विकास कार्यक्रम से आने वाले 3 साल बाद किसानों को फल मिलने लगेगा जो कि किसानों की आमदनी बढ़ाने में मददगार साबित होंगे। यह कार्यक्रम अदानी फाउंडेशन द्वारा विगत 3 साल से चलाया जा रहा है जिसके तहत् पौधों में फल आने लगे हैं एवं आने वाले समय में किसानों को अपने परिवार हेतु घर पर ही फल उपलब्ध होंगे एवं स्थानीय बाजार में भी फल उपलब्ध होंगे।

adani

Growth with Goodness

adani™

Ref: APRL/PK/GOVT/RSPCB/00568

Date: 22nd September 2021

To,
The Member Secretary
Rajasthan State Pollution Control Board,
4, Institutional Area, Jhalana Doongri,
Jaipur – 302004

Subject: Environmental Statement for the Financial Year 2020-21.

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

Dear Sir,

With reference to above subject, kindly find enclosed herewith Environmental Statement for financial year ending 2020-21, along with Form–V prescribed under Rule 14 of the Environment (Protection) Rules 1986, in respect of Kawai Thermal Power Station.

Kindly acknowledge the same.

Thanking You,

For Adani Power Rajasthan Ltd.

Authorized Signatory

Cc: The Regional Officer
Rajasthan State Pollution Control Board
SPL-2A, Road No.6, Indraprasth Industrial Area,
Kota-324005 (Rajasthan)

Encl : As above

Adani Power Rajasthan Ltd
NH 90, Atru Road
Village Kawai, Taluka Atru
Baran 325 219
Rajasthan, India
CIN: U40104GJ2008PLC052743

Tel +91 7451 24 5910

info@adani.com
www.adani.com

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

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India

ENVIRONMENT STATEMENT

FOR FINANCIAL YEAR

2020 – 2021

1320 (2×660) MW

KAWAI THERMAL POWER PLANT

Submitted to:

Rajasthan State Pollution Control Board, Jaipur

Submitted By:

adani

Power

ADANI POWER RAJASTHAN LIMITED

Village: Kawai, Taluka: Atru

Baran, Rajasthan

ENVIRONMENTAL STATEMENT

FORM V
(See Rule 14)

From:
Adani Power Rajasthan Ltd.
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 2020 to March 2021)

PART - A

i) Name and address of the owner / occupier of the industry Operation or Process

- Name : Mr. Arindam Chatterjee (Station Head)
- Address : NH-90, Atru Road, Village Kawai, Tehsil Atru, Distt. Baran 325219 (Rajasthan)

ii) Industry category
- Primary- (STC Code) : Primary (Large Scale Industry – Red Category)
- Secondary-(SIC Code) :-

iii) Production Capacity-Units : 1320 MW (2 x 660MW) Power Generation

iv) Year of establishment :
Unit#1 Commissioned on 28th May 2013
Unit#2 Commissioned on 31st December 2013
(Consent to operate is valid up to 29.02.2024).

v) Date of the last environmental statement submitted: **26.09.2020**

PART B

Water and Raw Material Consumption:

1. Water consumption **m^3/d**
   a) Process : 864.26
   b) Cooling : 51740.76
   c) Domestic : 590.34

Name of Products	Process water consumption per unit of product output	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
	(1)	(2)
Power	2.56 KL/MWh	2.27 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 (2019-20)	During the current financial year (2020-21)
(1) Coal	Power	561 gm/kwh	564.21 gm/kwh
(2) Fuel Oil	Power	0.07 ml/kwh	0.03 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^3)	**Unit#1:** 1.79 TPD **Unit#2 :** 2.27 TPD	**Unit#1:** 30.90 **Unit#2 :** 36.23	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 (2019-20)	During the current financial year (2020-21)
a)	From Process • Used/Spent Oil	• 17.84 KL (Generated) • 12.22 KL (Sold Out) 7.51 KL (Balance)	• 7.08 KL (Generated) • 13.84 KL (Sold Out) 0.79 KL (Balance)
	• Discarded Containers	• 99 Nos. (Generated) • 60 Nos. (Sold Out) 69 Nos. (Balance)	• 03 Nos. (Generated) • 68 Nos. (Sold Out) 04 Nos. (Balance)
b)	From pollution control facilities	NA	NA

PART – E

Solid Wastes:

Sr. No.	Solid Wastes	Total Quantity (Tons)	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
a)	From Process (Bottom Ash)	215,427 (Disposed to Bricks manufacturers)	373,106 MT (Disposed to Bricks manufacturers)
b)	From pollution control facilities (Ash from ESP)	1,115,222 (Dispose to Cement manufacturer)	1,189,727 (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	213,831 (In reclamation of low-lying area within Plant premises)	42,810 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 vender.
  (Please Refer Part - D for Hazardous waste generation and disposal)

- Fly Ash utilized by following Industries
  - Birla Corporation Ltd.
  - Heidelberg Cement India Ltd.
  - J.K. Cement Ltd, Mangrol and Nimbahera
  - Mangalam Cement Ltd.
  - Nuvoco Vistas Corp. Ltd.
  - Wonder Cement Ltd.
  - Ultratech Nathdwara Cement Ltd.
  - Udaipur Cement Works
  - Shri Ram Cement Works
  - J.K. Cement Ltd. (Mangrol)
  - The India Cements Limited
  - ACC Limited
  - Ambuja Cement Ltd.
  - The India Cement Ltd.

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 Rajasthan 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 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 the fugitive emissions.
- Real time monitoring system for both EQMS & CEMS installed as per the direction of CPCB/RSPCB issued, under Air & Water Act.
- Remote calibration completed in Gaseous Online continuous monitoring system.
- Utilization of Rainwater collected during monsoon in Rainwater Harvesting Pond.
- Recycling and Reusing of treated water in plant operation.
- Organic waste is being utilize in Organic waste convertor machine to further manure development.

PART – H

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

- Installation of Flue Gas Desulphurization (FGD) unit to reduce SO_2 emission as per CPCB direction.
- Installation of Flow monitoring device at both flue cane of Unit-1 & 2.

PART - I

Miscellaneous

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

1. 105,470 trees and 1,70,000 shrubs planted up to financial year 2020-21 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 and EnMS as per ISO 50001:2018) 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. Six monthly EC Compliance report is being submitted to RSPCB/MoEF&CC on regular basis.
11. 5S Implementation for waste minimization.
12. IFC Performance Standards has been implemented on Environment and social sustainability.
13. MoEF&CC, RSPCB approved third Party Environment Monitoring is being carried out at quarterly basis.

Authorized Signatory
(Adani Power Rajasthan 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: 28/08/2019 **Valid Until:** 27/08/2021*

***The validity is extended for one year up to 27.08.2022**

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

Name of Legal Identity : ADANI POWER RAJASTHAN LIMITED

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

Adani Power Rajasthan Limited

Annexure-VIII

Expenditure for Environmental Protection & CSR

(Fig. in Rs. Lacs)

Sr. No.	Particular	Expenditure from (Apr-21 to Sep-21)
1.	Rural Development/CSR Activities (Education, community health, Sustainable Livelihood, community Infrastructure development etc.)	99.74
2.	Green belt Development (Horticulture)	32.41
3.	Legal, Consent fees	40.09
4.	Third party monitoring, Services and Equipment & Instruments maintenance, Communication cost.	15.21
5.	Insurance, training, and external environmental Management (IMS)	13.40
6.	Cost involved in emission treatment and disposal (AHP, ETP, CHP etc.)	572.00
Total		**772.85**

भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)
Petroleum & Explosives Safety Organisation (PESO)
आम्रपाली सर्कल, पावर हाउस के पास, वैशाली नगर
जयपुर- 302021
Amrapali Circle, Near Power House, Vaishali Nagar,
Jaipur - 302021

E-mail : dyccejaipur@explosives.gov.in
Phone/Fax No : 0141 - 2356731,2356781

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

दिनांक /Dated : 09/01/2020

9 JAN 2020

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,, 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,, 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 - दिनांक 07/12/2019 का अवलोकन करें ।
Please refer to your letter No.: -, dated 07/12/2019

अनुज्ञप्ति संख्या P/HQ/RJ/15/2337 (P295058) दिनांक 16/04/2019 को दिनांक 31/12/2022 तक नवीनीकृत कर इस पत्र के साथ अग्रेषित की जा रही है ।
Licence No. P/HQ/RJ/15/2337 (P295058) dated 16/04/2019 is forwarded herewith duly renewed upto 31/12/2022.

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

उप मुख्य विस्फोटक नियंत्रक
जयपुर

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाईट : 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 हैं ।

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 **2022** तक प्रवृत रहेगी ।
The Licence shall remain in force till the 31st day of December **2022**

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

Sd/-
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 विशिष्टयां संलग्न अनुमोदित नक्शेा में दिखाई गई हैं **Plot No: Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai, Teh-Atru,, 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,, 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.

पेज सं. 2

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

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

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.	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
1).	16/12/2013	31/12/2016	Sd/- Dr. Yogesh khare Dy. Chief Controller of Explosives Jaipur
2).	22/11/2016	31/12/2019	Sd/- Nitin Goyal Dy. Controller of Explosives For Dy. Chief Controller of Explosives Jaipur
3).	09/01/2020	31/12/2022	Dr. G. K. PANDEY Controller of Explosives For Dy. Chief Controller of Explosives Jaipur उप मुख्य विस्फोटक नियंत्रक जयपुर

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरुप नहीं पाए जाते है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमे 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.