

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

**1320 (2×660) MW THERMAL POWER PLANT**

**At**

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

*Submitted to:*

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

**adani**

*Submitted By:*

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

**PERIOD: April'2020 – September'2020**

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## **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 (MoEF) 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 micro-metrology 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.

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**COMPLIANCE STATUS ON ENVIRONMENTAL CLEARANCE**

**1320 (2×660) MW Coal Based Kawai Thermal Power Plant**

Vide letter No. J-13012/154/2008-IA.II (T) dated 04.05.2011 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 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 matter with the Railways and shall submit	Being complied. Coal is being transported to power plant through Rail only.

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	action taken and implementation status to the ministry from time to time.	
(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. One site is proposed for the regeneration in Dhara panchayat. 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 A fresh Hydrogeological study has been carried out in the month of February 2020 by third party consultant to assess the surface & ground regime. The study report is under review and submission has been delayed due to COVID Outbreak. 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.	Complied. 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.

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(xiv)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline so as to ensure that the ground water quality is not adversely affected due to the project.	Regular monitoring of ground water quality including heavy metals is being carried out in and around the plant area by MoEF&CC accredited agency and NABL accredited Environment laboratory of APRL. Please refer attached <b>Annexure-I</b> . Three Piezometric wells are established around the ash pond. Record are being maintained and attached as <b>Annexure-II</b> . Due to COVID-19 Pandemic, Only In-house monitoring were carried out in last six months.
(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. Please refer <b>Annexure I</b> .
(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 m <sup>3</sup> 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

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		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 SO <sub>x</sub> , NO <sub>x</sub> and PM <sub>2.5</sub> & PM <sub>10</sub> . Exit velocity of flue gases shall not be less than 22 m/s. Mercury emissions from stack may also monitored on periodic basis.	Twin flue stack of 275 meter constructed. Continuous Emission Monitoring System installed in both flues for SO <sub>2</sub> , NO <sub>x</sub> , and PM. The flue gas velocity is more than 22 m/sec. Hg monitoring in stack is being carried out on quarterly basis. CEMS results attached as <b>Annexure IA.</b>
(xxi)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	A high Efficiency Electrostatic Precipitators has been provided to each boiler (ESPs) to meet particulate emission less than 50mg/Nm <sup>3</sup> , ESP efficiency is being observed by our operation department. Details of monitoring results as carried out by 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 <b>Annexure I</b>
(xxii)	Adequate dust extraction system such as cyclones / bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	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 <b>Annexure-III</b>
(xxiv)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb, etc.) will be monitored in the bottom ash as also in the effluents emanating in the existing ash pond. No ash shall be disposed off in low lying area.	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., 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.

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		Heavy metal analysis is being carried out for As, Pb, Hg, Cr Fe, Cu, Zn, Cd, and Ni in fly ash. Analysis report is enclosed 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 104,575 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 scale. In pursuance to this the project proponent shall formulate time bound action plan along with financial allocation and shall submit status of implementation to the Ministry within six months.	Social forestry with active participation of the villagers and school children are being carried out in close consultation with Forest Department, Action plan regarding social forestry and regeneration of degraded forest is under implementation. About 1200 saplings planted along with the NH-90 in association with forest department. About 500 trees are also planted in school campus & villages.
(xxix)	Atleast three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, 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.



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(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 <b>Annexure V</b> .
(xxxii)	CSR schemes shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken.	Based on the need based assessment report under the CSR, recommendations made in the CSR report are being implemented by Adani Foundation. Please refer Annexure V Main Focus has been given on Education, Health, Alternative Livelihood and Rural Infrastructure. Please refer <b>Annexure V</b>
(xxxiii)	It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time. The achievements should be put on company's website.	The implementation of CSR activities carried out by Adani Foundation. Implementation / achievement of CSR activities are being submitted along with EC compliance on regular basis. Please refer <b>Annexure V</b> .
(xxxiv)	An amount of Rs 28.0 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 5.6 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.	Separate budget has been earmarked for CSR activities. CSR activities are being carried out by Adani Foundation. CSR report and expenditures for period October-2019 to March'2020 is attached as <b>Annexure V &amp; VIII</b> respectively.
(xxxv)	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation.	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.
<b>Additional Specific Conditions</b>		
(xxxvi)	The Coal transportation by road shall be through tarpaulin covered trucks for a maximum period of two years and hence	Coal is being transported by Rail up to Plant premises.

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	forth shall be only through mechanically covered trucks.	
(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 <b>Annexure-III</b> .
(xxxix)	A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Being Complied Test results of coal samples for radio activity and heavy metal report submitted along with previous compliance report.
(xl)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	Solar 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-agriculture land.	Being Complied. Adequate air pollution control measures such as Dust Extraction System (DES), Dust Suppression System, Wind Shield, water sprinkling & Fog canon system have been provided to meet particulate matter emission within the norms.
(xlii)	Fly ash shall not be used for agriculture purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an	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, SPCB & Central Electricity Authority (CEA). Fly Ash generation & utilization is attached as <b>Annexure III</b> .

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	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.									
(xliii)	Three tier green belt shall be developed all around Ash Pond over and above the Green Belt around the plant boundary and grassing shall be done on the ash mound.	Plantation all along ash dyke is taken up by seed broadcasting of species like Subabul, Jatropha and Desi Babool. Slope of ash dyke is covered with grass to avoid soil erosion.								
(xliv)	An Environmental Cell be created at the project site itself and shall be headed by an officer of the company of appropriate seniority and qualification. It shall be ensure that the head of the Cell directly report to the Head of the Organization. The Environmental Cell shall be responsible and accountable for implementation of all the conditions given in the EC including in the amendment letter.	Being Complied We have already established an Environmental Management Cell headed by Manager & supported by Env. Engineer, Officer, Chemist & Horticulturist. We have NABL accredited Laboratory. Certificate Number- TC-5235 issued on dated 28/08/2019. Please refer NABL certificate is enclosed as <b>Annexure-VII.</b>								
(xlv)	The project proponent shall formulated a well laid Corporate Environmental Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Corporate level Environmental Policy has been developed to implement EMS (Environmental Management System) as per ISO 14001-2015. <b>Environmental Management System as per EMS ISO 14001 implemented Integrated Management System (IMS) is also Implemented.</b>								
<b>B</b>	<b>General Conditions:</b>									
(i)	The treated effluents confirming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	ETP has been established (Capacity- 226 m <sup>3</sup> /hr based on primary treatment) to treat effluents and treated water reuses within the premises. The concept of "Zero Discharge Condition" is implemented except during non-monsoon period. Separate drainage network is established for storm water.								
(ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt / plantation.	Sewage Treatment Plant has been established inside the plant & treated domestic water is suitably reused within the plant premises in plantation / green belt development. <table border="1" data-bbox="890 1742 1492 1877"> <thead> <tr> <th>Particular</th> <th>Capacity</th> <th>Total Capacity</th> <th>Technology</th> </tr> </thead> <tbody> <tr> <td>STP</td> <td>120 KLD (10 x 2 KLD)</td> <td>140</td> <td>Mikie Bioreactor</td> </tr> </tbody> </table>	Particular	Capacity	Total Capacity	Technology	STP	120 KLD (10 x 2 KLD)	140	Mikie Bioreactor
Particular	Capacity	Total Capacity	Technology							
STP	120 KLD (10 x 2 KLD)	140	Mikie Bioreactor							
(iii)	Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in coal yard, especially	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								

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

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	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.	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 <a href="http://envfor.nic.in">http://envfor.nic.in</a>	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 atleast 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. <b>Environmental Management System as per EMS ISO: 14001 implemented.</b>
(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	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

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	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.	website <a href="http://www.adanipower.com">www.adanipower.com</a>
(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/00538, dated-26.09.2020.
(xiv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forest, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forest.	Six monthly compliance on the Environmental Clearance granted by MoEF is being submitted to MoEF, CPCB & RPCB regularly. Compliance status updated on company's website. Compliance report for the period of October-2020 to March- 2020 had been submitted to your good office vide letter no.: APL/APRL/EMD/EC/MoEF/216/05/20 dated 28.05.2020
(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	Noted Compliance assured

**Adani Power Rajasthan Limited**

	including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	
(xvi)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Being Followed. Separate fund has already been allocated and being utilize for Environmental Protection. Environment protection measures (EMP & CER) Expenditure from April- 2020 to September- 2020 is attached as <b>Annexure-VIII</b> .
(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.

**ENVIRONMENTAL MONITORING REPORT**  
**INCLUDING**  
**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:

**ENVIRONMENT MANAGEMENT DIVISION**

**KAWAI THERMAL POWER STATION**

**PERIOD: APRIL-2020 to SEPTEMBER-2020**



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## 1 EXECUTIVE SUMMARY

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ADANI group has constructed 2 units of 660 MW Supercritical Thermal Power Station at Village, Kawai 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 NABL accredited Laboratory for the various parameters of Air, water, waste water & weather related parameters as per ISO/IEC-17025/2017 standards.

The samples for determination of quality of Ambient Air analysis, Ground Water are collected from Site and analysed in Environmental Laboratory of Adani Power Rajasthan Limited.

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

**Authorized Signatory**

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

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### 2.1 ADANI POWER LIMITED

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

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

### 2.2 KAWAI THERMAL POWER STATION

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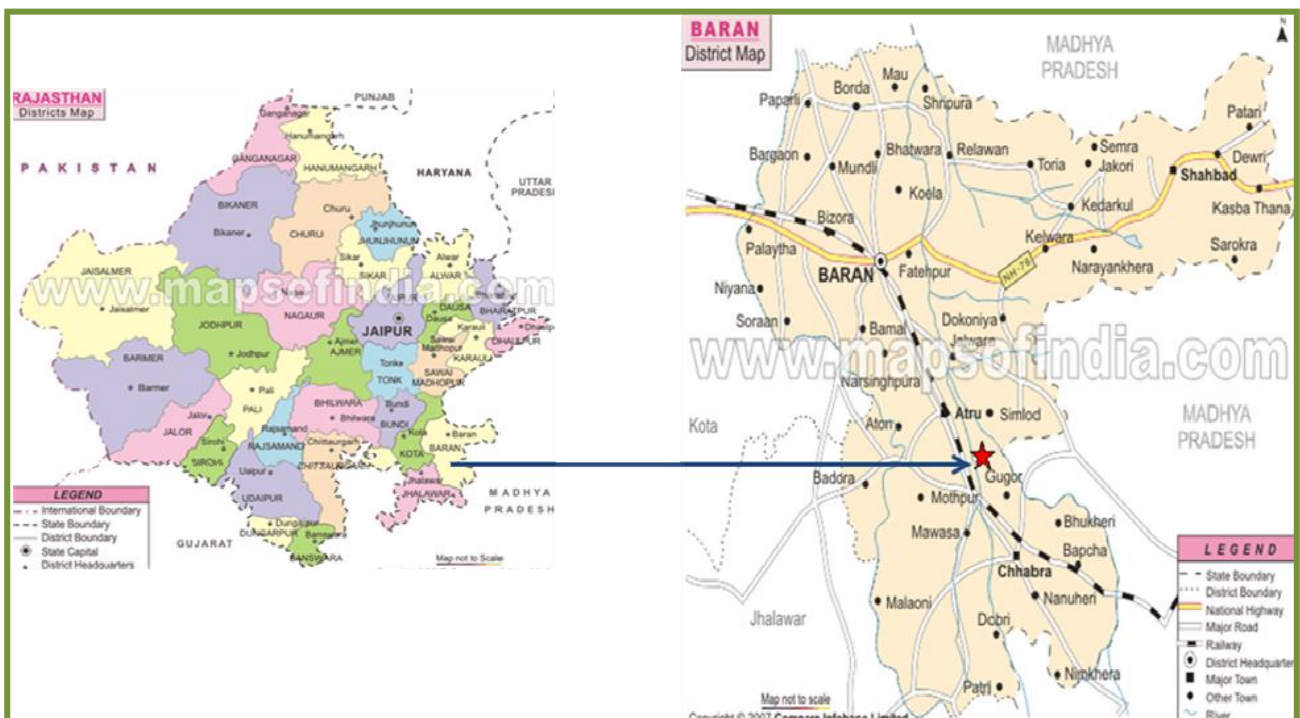
Adani Enterprises Limited (AEL) have signed MoU with Energy Department, Government of Rajasthan on 20th March, 2008 for developing a Thermal Power Project of 1320 MW capacity near Kawai, District Baran, Rajasthan. For this purpose Adani Enterprises Limited (AEL) has registered Adani Power Rajasthan Limited (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.

Domestic coal is being used. Water is drawn through a dedicated pipeline from the PARWAN River located at a distance of about 15 km from plant.

2.3 LOCATIONS OF THE PLANT

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



Location Map

## 3 MICRO METROLOGY DATA

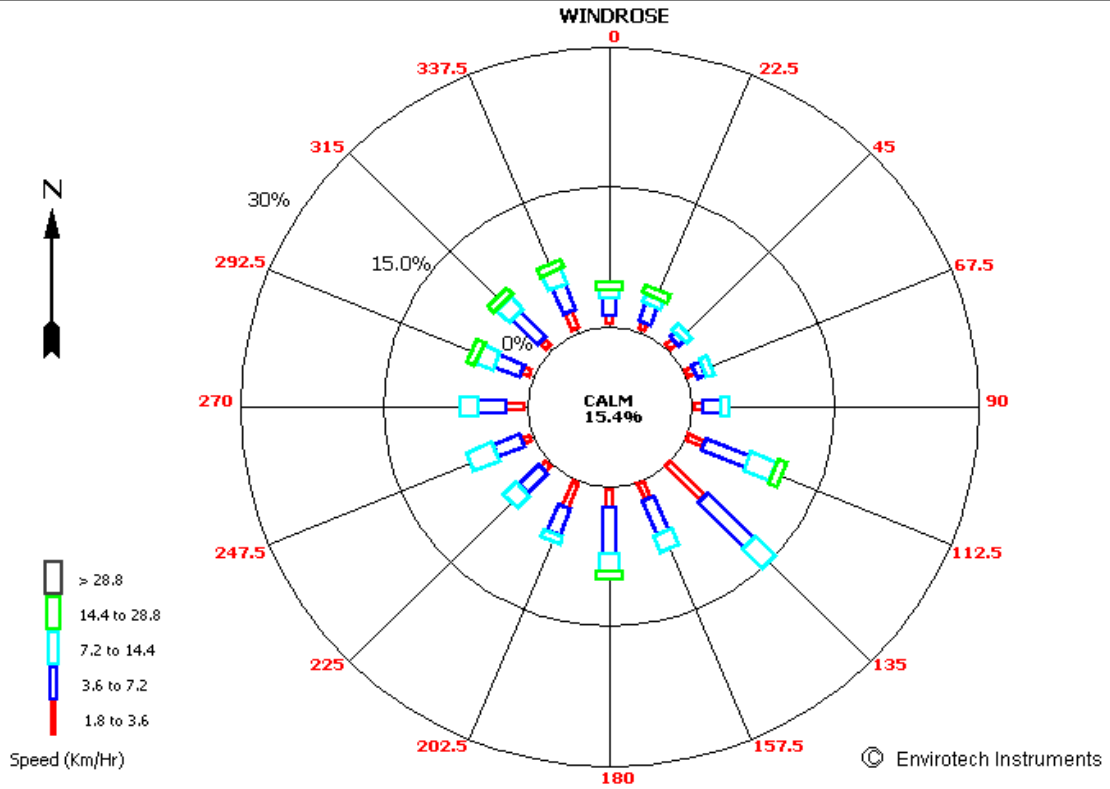
## AVERAGE DAILY METEROLOGICAL DATA OF APRIL-2020

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.04.2020	23	37.5	17.1	57	0
02.04.2020	21.2	36.3	14.1	47.1	0
03.04.2020	21.2	36.1	17.1	45.4	0
04.04.2020	21.2	38.1	12	36.2	0
05.04.2020	22	40	10.2	39.5	0
06.04.2020	23	40.5	12.1	38	0
07.04.2020	25.2	40.5	12.5	34	0
08.04.2020	26.1	38.6	15.2	35.5	0
09.04.2020	24.2	38.4	15.1	41.6	0
10.04.2020	24.2	40.6	12	37.1	0
11.04.2020	25.3	41.5	13	33.6	0
12.04.2020	26.1	40.5	15	34.3	0
13.04.2020	25.2	41.3	14.1	40.1	0
14.04.2020	27.1	41.6	13.1	37.2	0
15.04.2020	26.3	41.4	15	34.5	0
16.04.2020	25.4	42	15	37.4	0
17.04.2020	29.5	41.5	15.1	31.5	0
18.04.2020	28.1	40.4	16.5	45.5	1.5
19.04.2020	28	38.2	18	41.3	0
20.04.2020	27.1	37.3	21.5	35.5	0
21.04.2020	26.1	37.4	19.1	42.4	0
22.04.2020	25	38.4	14.5	40	0
23.04.2020	28	37.3	20.2	30.6	0
24.04.2020	26.2	39.5	19	43.2	0
25.04.2020	26.5	39.4	14.1	54	0
26.04.2020	27	40.1	18	60.1	0.5
27.04.2020	25.3	40.1	19.2	64.3	0
28.04.2020	26	40	20	55.6	0
29.04.2020	27.2	40.5	19	49.2	0
30.04.2020	29	42.5	15.3	41.4	0
<b>Average</b>	<b>25.52</b>	<b>39.58</b>	<b>15.74</b>	<b>42.10</b>	<b>2</b>

Time : 00:00 - 23:00

Date : 01/04/20 - 30/04/20

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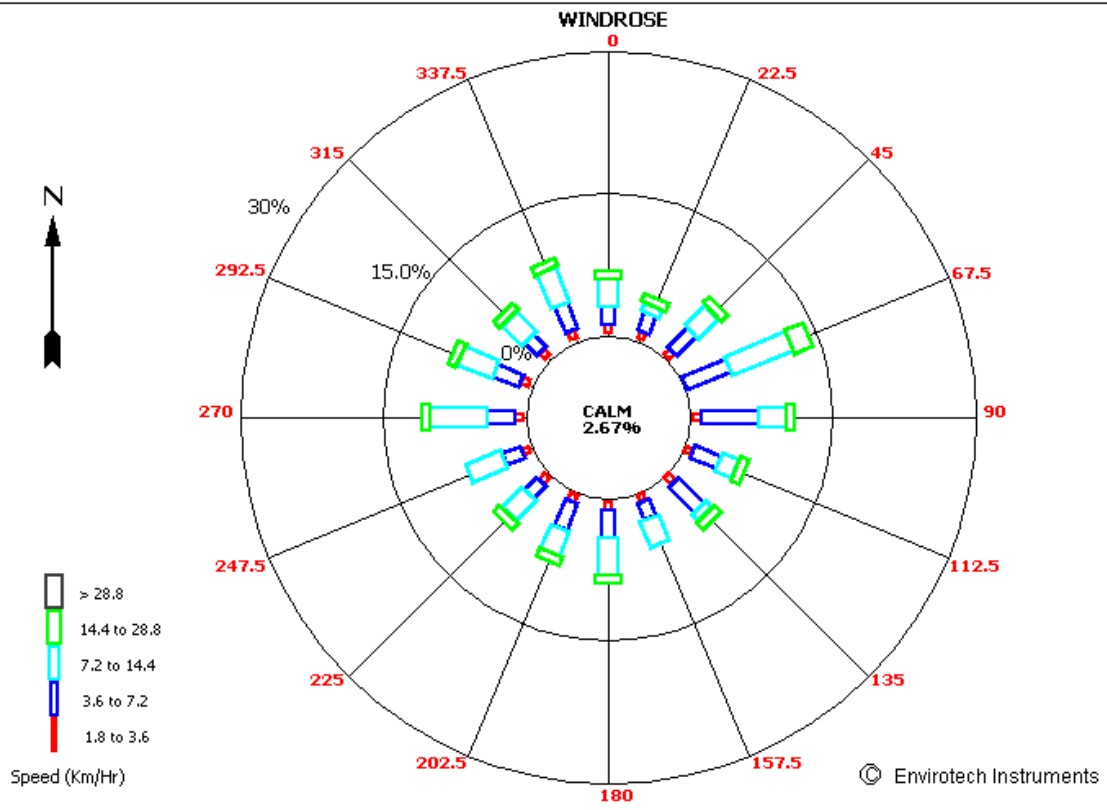


**AVERAGE DAILY METEROLOGICAL DATA OF MAY-2020**

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.05.2020	27.1	42.5	15.3	37.3	0.0
02.05.2020	28.1	43.2	12.0	37.3	0.0
03.05.2020	28.1	42.4	16.3	58.1	0.0
04.05.2020	25.6	41.2	19.2	84.5	12.5
05.05.2020	24.3	39.2	21.0	87.5	0.0
06.05.2020	27.0	41.4	15.2	56.4	0.0
07.05.2020	24.2	42.4	13.1	66.6	0.0
08.05.2020	28.4	43.6	12.0	39.0	0.0
09.05.2020	31.0	43.1	15.6	30.6	0.0
10.05.2020	29.3	44.4	14.1	46.1	0.0
11.05.2020	27.2	41.1	19.1	52.5	0.0
12.05.2020	25.3	39.2	24.4	70.2	0.0
13.05.2020	29.2	42.3	18.3	45.6	0.0
14.05.2020	30.1	43.3	17.2	49.2	0.0
15.05.2020	31.6	43.4	15.0	39.1	0.0
16.05.2020	32.1	42.3	18.1	36.0	0.0
17.05.2020	30.2	43.5	15.0	37.4	0.0
18.05.2020	30.4	42.2	11.3	35.5	0.0
19.05.2020	29.1	42.4	11.1	23.6	0.0
20.05.2020	29.0	42.6	8.1	22.6	0.0
21.05.2020	28.1	43.4	9.1	23.1	0.0
22.05.2020	29.0	44.6	10.1	24.0	0.0
23.05.2020	32.1	45.0	12.0	23.4	0.0
24.05.2020	32.2	45.4	10.0	25.2	0.0
25.05.2020	33.1	45.5	12.1	25.5	0.0
26.05.2020	33.0	45.7	11.1	25.2	0.0
27.05.2020	34.2	45.4	11.1	36.4	0.0
28.05.2020	34.0	44.3	17.2	47.2	0.0
29.05.2020	34.3	44.5	18.3	49.4	0.0
30.05.2020	29.0	41.3	16.0	61.2	0.0
31.05.2020	28.0	39.6	25.1	71.1	0.0
<b>Average</b>	<b>29.49</b>	<b>42.92</b>	<b>14.95</b>	<b>44.09</b>	<b>12.5</b>

Time : 00:00 - 23:00  
 Date : 01/05/20 - 31/05/20

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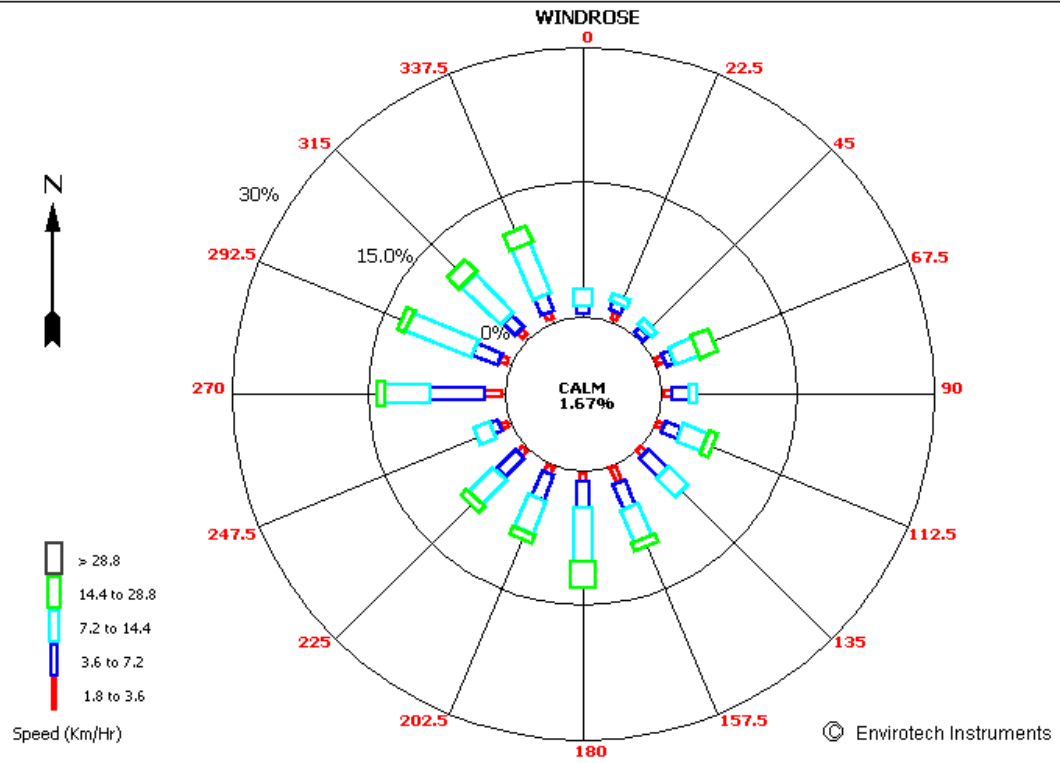


**AVERAGE DAILY METEROLOGICAL DATA OF JUNE -2020**

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.06.2020	28.3	41.5	22.5	62.2	0.0
02.06.2020	27.1	39.1	26.1	63.1	0.0
03.06.2020	30.0	38.6	26.0	45.5	0.0
04.06.2020	25.2	32.0	42.0	78.0	0.0
05.06.2020	23.2	36.2	33.3	81.4	2.0
06.06.2020	25.3	38.3	26.2	85.6	0.0
07.06.2020	29.2	37.5	34.0	59.5	0.0
08.06.2020	28.1	38.3	33.1	64.4	0.0
09.06.2020	29.0	41.6	24.0	65.2	0.0
10.06.2020	30.0	41.1	28.5	58.6	0.0
11.06.2020	29.5	42.2	27.0	67.3	0.0
12.06.2020	30.0	41.2	28.2	64.3	0.0
13.06.2020	30.2	42.0	26.2	62.0	0.0
14.06.2020	27.4	41.6	30.0	88.0	1.0
15.06.2020	27.0	39.6	35.1	91.3	3.0
16.06.2020	30.0	42.0	26.1	75.4	0.0
17.06.2020	29.0	40.4	36.3	70.2	5.0
18.06.2020	28.2	40.4	39.1	84.0	0.0
19.06.2020	27.0	39.3	39.1	79.1	2.0
20.06.2020	25.0	37.0	48.2	90.2	3.5
21.06.2020	27.1	37.5	41.0	81.0	3.0
22.06.2020	27.1	39.0	35.3	81.1	0.0
23.06.2020	26.0	38.6	41.2	92.5	18.5
24.06.2020	26.3	32.6	70.2	92.3	0.0
25.06.2020	27.0	37.3	45.1	92.4	0.0
26.06.2020	26.1	39.3	42.0	88.3	0.0
27.06.2020	27.1	37.2	49.1	91.2	2.5
28.06.2020	27.1	39.1	40.4	80.2	0.0
29.06.2020	30.0	40.5	35.2	68.2	0.5
30.06.2020	26.1	39.2	41.1	92.6	10.0
<b>Average</b>	<b>27.62</b>	<b>39.01</b>	<b>35.72</b>	<b>76.50</b>	<b>51.0</b>

Time : 00:00 - 23:00  
 Date : 01/06/20 - 30/06/20

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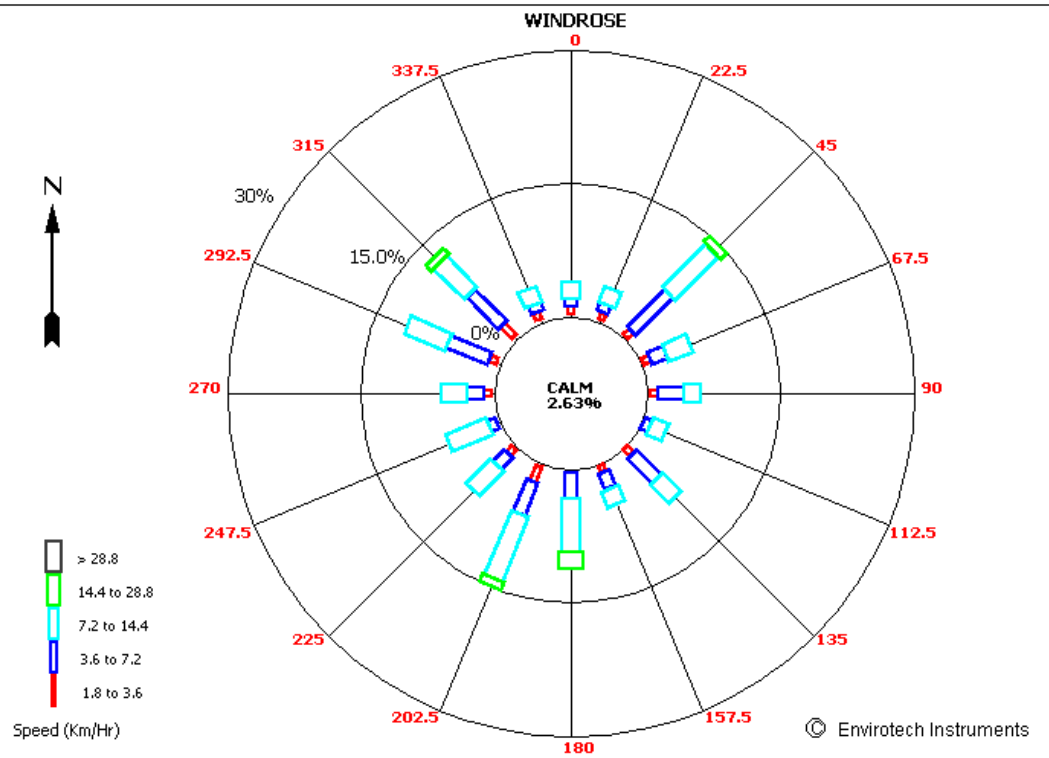


**AVERAGE DAILY METEROLOGICAL DATA OF JULY-2020**

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.07.2020	26.0	37.2	44.1	79.5	3
02.07.2020	28.2	37.3	53.3	78.3	2
03.07.2020	26.1	41.3	35.2	90.1	5.5
04.07.2020	26.2	35.4	54.6	91.5	0.5
05.07.2020	26.0	35.3	57.3	93.1	28
06.07.2020	26.0	33.2	62.3	91.4	0.5
07.07.2020	27.1	36.1	49.1	91.5	0
08.07.2020	29.2	37.2	46.3	86.5	0
09.07.2020	29.3	35.3	55.0	79.2	22.5
10.07.2020	29.1	36.5	48.0	80.1	0
11.07.2020	28.0	36.2	51.0	81.2	0
12.07.2020	28.3	36	53.6	79.5	0
13.07.2020	27.1	34.6	59.4	91.0	14.5
14.07.2020	28.0	36.4	51.0	85.5	0.5
15.07.2020	28.0	37.4	49.3	88.3	3
16.07.2020	27.0	34.3	66.2	94.0	54
17.07.2020	28.0	37.5	50.1	96.2	0
18.07.2020	28.0	37.5	47.0	89.0	0
19.07.2020	29.0	37.3	49.3	82.6	0
20.07.2020	30.0	35.3	54.1	79.5	0
21.07.2020	28.1	36.3	47.0	83.1	0
22.07.2020	28.2	37.5	44.2	79.5	0.5
23.07.2020	26.1	37.6	46.6	88.5	3
24.07.2020	26.1	36.2	53.2	88.5	0
25.07.2020	27.5	36.5	52.1	90.6	5
26.07.2020	27.0	36.5	50.0	94.4	0
27.07.2020	28.1	37.5	45.0	86.0	0
28.07.2020	29.4	37	51.1	83.0	1
29.07.2020	27.0	32.3	72.2	94.2	3
30.07.2020	27.0	34.5	61.0	94.0	0
31.07.2020	27.1	37.3	49.3	95.4	0
<b>Max</b>	<b>27.62</b>	<b>36.34</b>	<b>51.87</b>	<b>87.26</b>	<b>146.5</b>

Time : 00:00 - 23:00  
 Date : 01/07/20 - 31/07/20

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**AVERAGE DAILY METEROLOGICAL DATA OF AUGUST-2020**

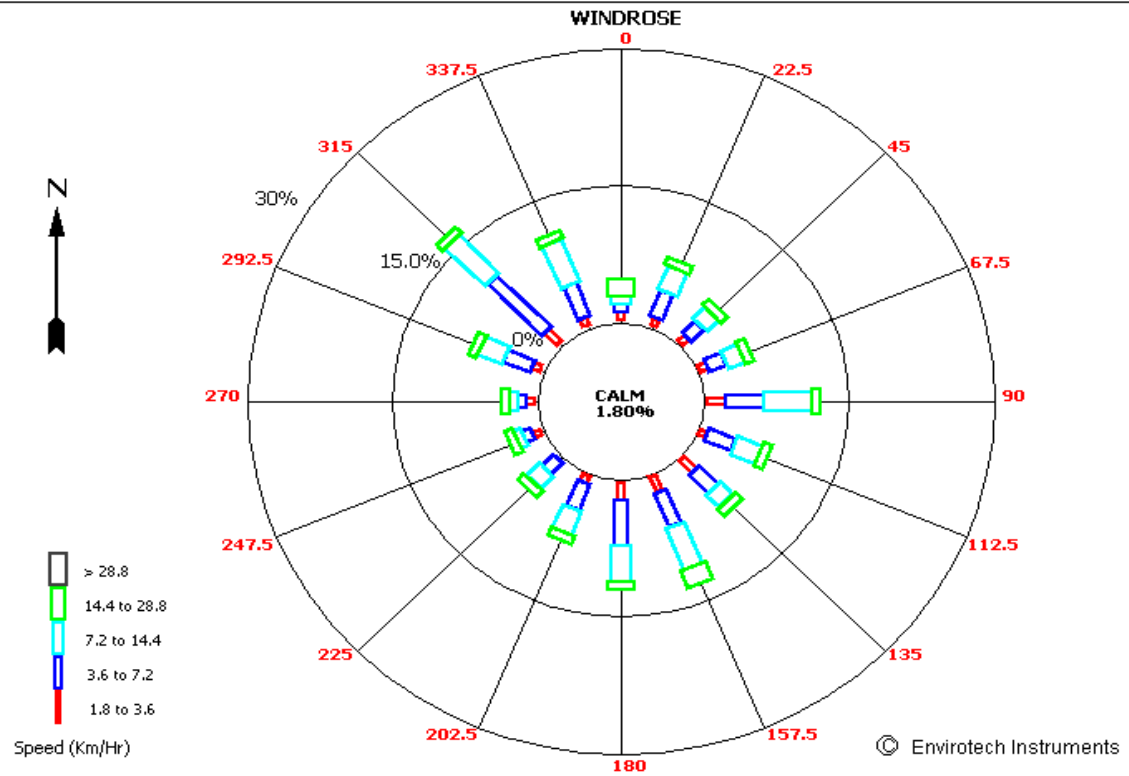
Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.08.2020	28.0	37.1	53.0	89.4	22
02.08.2020	28.0	35.4	58.1	90.3	0
03.08.2020	28.0	35.3	56.2	92.1	0
04.08.2020	27.0	36.4	54.3	91.3	0
05.08.2020	26.0	32.4	73.0	92.4	3.5
06.08.2020	28.0	33.0	70.2	94.4	2
07.08.2020	28.1	32.5	71.3	94.3	6
08.08.2020	28.1	31.4	70.0	93.6	0
09.08.2020	28.0	34.4	62.1	91.0	0
10.08.2020	27.0	32.5	73.2	97.0	13.5
11.08.2020	28.0	29.6	87.1	95.4	2
12.08.2020	28.0	31.3	76.1	96.6	0
13.08.2020	27.0	32.0	75.3	94.4	0
14.08.2020	26.1	30.4	80.5	97.1	6
15.08.2020	26.0	32.6	71.0	96.2	0
16.08.2020	27.0	32.5	72.0	94.2	0
17.08.2020	27.2	33.0	73.4	97.2	15
18.08.2020	27.2	32.2	76.5	95.5	9.5
19.08.2020	26.0	29.6	86.1	98.2	23
20.08.2020	26.1	32.5	75.0	98.5	4.5
21.08.2020	27.0	31.5	73.1	93.5	4.5
22.08.2020	26.3	30.4	77.5	96.1	7
23.08.2020	25.0	29.6	81.0	98.4	40.5
24.08.2020	25.3	31.1	71.2	94.4	1
25.08.2020	25.0	32.5	65.1	93.0	0
26.08.2020	25.0	32.2	62.1	95.4	0
27.08.2020	26.0	32.2	70.1	92.4	0
28.08.2020	26.0	30.4	77.6	97.4	17.5
29.08.2020	26.0	32.3	71.1	98.0	4.5
30.08.2020	25.2	30.4	74.4	98.5	16.5
31.08.2020	25.0	32.4	61.0	94.3	0
<b>Average</b>	<b>26.66</b>	<b>32.29</b>	<b>70.92</b>	<b>94.85</b>	<b>198.5</b>

Time : 00:00 - 23:00

Date : 01/08/20 - 31/08/20

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ADANI POWER RAJ. LTD  
KAWAI, Distt.- BARAN



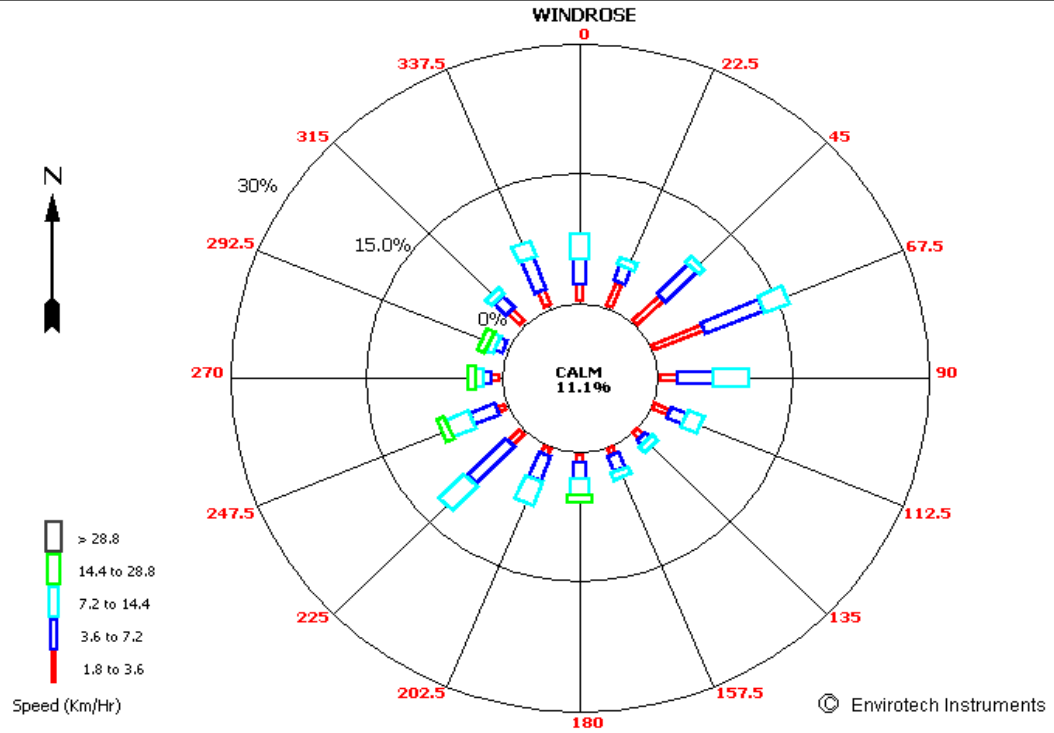
**AVERAGE DAILY METEROLOGICAL DATA OF SEPTEMBER 2020**

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.09.2020	25.0	34.0	52.3	95.5	0.0
02.09.2020	27.1	33.2	60.6	90.4	0.0
03.09.2020	26.1	32.1	67.1	96.2	0.0
04.09.2020	26.0	35.1	53.4	97.3	0.0
05.09.2020	26.1	34.3	52.0	96.2	0.0
06.09.2020	24.0	32.1	67.1	95.3	0.0
07.09.2020	26.1	35.3	51.2	96.2	0.0
08.09.2020	26.0	33.3	62.4	94.2	2.0
09.09.2020	26.2	36.1	51.3	94.1	0.0
10.09.2020	27.1	36.3	48.5	92.2	0.0
11.09.2020	25.2	36.2	48.1	95.1	1.5
12.09.2020	27.0	36.5	45.2	89.2	0.0
13.09.2020	27.1	37.2	43.3	86.4	0.0
14.09.2020	27.4	37.4	41.0	87.3	0.0
15.09.2020	26.1	38.4	36.3	93.3	0.0
16.09.2020	26.0	38.6	33.1	92.5	0.0
17.09.2020	28.1	39.3	36.2	83.1	0.0
18.09.2020	28.2	37.6	40.4	83.2	0.0
19.09.2020	28.2	37.5	45.4	85.4	1.0
20.09.2020	26.1	36.6	42.2	92.2	0.0
21.09.2020	27.2	36.2	48.1	89.6	5.5
22.09.2020	28.0	36.1	49.0	85.2	0.0
23.09.2020	27.1	34.6	55.0	87.4	0.0
24.09.2020	26.1	37.2	37.0	89.2	0.0
25.09.2020	27.0	37.1	41.5	91.5	0.5
26.09.2020	26.4	36.4	42.2	88.4	51.0
27.09.2020	24.1	33.6	53.0	98.1	13.5
28.09.2020	25.3	33.6	50.2	88.4	0.0
29.09.2020	26.0	36.1	39.0	85.0	0.0
30.09.2020	25.0	36.2	31.3	87.0	0.0
<b>Average</b>	<b>26.38</b>	<b>35.81</b>	<b>47.45</b>	<b>90.84</b>	<b>75.0</b>

Time : 00:00 - 23:00  
 Date : 01/09/20 - 30/09/20

Set Title

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 a number of different methods to measure any given pollutant, varying in complexity, reliability, and detail of data.

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

The measurements were conducted during the period of **Apr-2020 to Sep-2020**.

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

#### 4.1 AMBIENT AIR QUALITY RESULTS

The detailed on-site monitoring results of PM10, PM2.5, SOx, NOx, CO, NH3, O3, Pb, As, Ni, Benzene, Benzo-alfa-pyrene and Hg are presented in table as given below:

**TABLE 3.2: AMBIENT AIR QUALITY MONITORING RESULTS**  
(Apr.2020 to Sep.2020)

S. No.	Parameter	West of Stack (Near Coal Handling Plant)	South East of Stack (Near CT 2)	North East of Stack (Near Reservoir)	Sidni (Near Labour Colony)	Kawai Village	Mukundpura	NAAQ Standard
1	Particulate Matter, PM <sub>10</sub> , µg/m <sup>3</sup>	58.5	53.4	52.6	47.5	51.9	48.5	100
2	Particulate Matter, PM <sub>2.5</sub> , µg/m <sup>3</sup>	33.4	28.4	27.4	28.4	28.2	26.6	60
3	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	18.1	16.1	17.0	16.8	16.3	16.3	80
4	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	16.1	14.5	15.4	15.0	14.3	15.0	80
5	Carbon Monoxide, µg/m <sup>3</sup>	360	340	380	270	360	260	4000
6	Ammonia, µg/m <sup>3</sup>	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	400
7	Ozone, µg/m <sup>3</sup>	36.1	BDL (<20.0)	35.58	32.52	31.52	24.58	100
8	Lead, µg/m <sup>3</sup>	0.37	0.36	0.34	0.28	0.38	0.31	1.0
9	Arsenic, ng/m <sup>3</sup>	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	6.0
10	Nickel, ng/m <sup>3</sup>	4.3	5.6	5.2	1.7	6.6	2.4	20
11	Benzene, µg/m <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	-

Note- In-house monitoring is being carried out for PM10, PM2.5, and SO2 & Nox. Due to Covid-19 Pandemic Third party agency was unable to carry out monitoring in previous quarters.

## 5 AMBIENT NOISE LEVEL

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The measurements were conducted during the period of Apr-2020 to Sept-2020.

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]  
(Apr.2020 to Sep.2020)**

<b>(Apr.2020 to Sep.2020)</b>		
<b>Location</b>	<b>Day Time Leq in dB(A)</b>	<b>Night Time Leq in dB(A)</b>
West of Stack (Near Coal Handling Plant)	56.9	48.7
South East of Stack (Near CT 2)	59.9	54.0
North East of Stack (Near Reservoir)	60.5	50.3

**TABLE 5.2: NOISE MONITORING RESULTS [DG Set]**

<b>(Apr.2020 to Sep.2020)</b>			
<b>Parameter</b>	<b>DG Set-I</b>	<b>DG Set-II</b>	<b>DG Set-III</b>
Noise level (dB(A) (inside the acoustic enclosure Room)	100.1	101.8	102.3
Noise level 0.5m away from outside the engine room, (db) (Outside the acoustic enclosure)	73.1	74.1.	72.3
Insertion Loss	28.1	28.5	27.6

## 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 Apr-2020 to Sept-2020.

The parameters covered in the monitoring are depict below:

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

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

**TABLE 6.2: STACK MONITORING RESULTS**

S. No	Parameter	Unit	Quarter- 1 <sup>st</sup> & 2 <sup>nd</sup> (Apr-2020 to Sept-2020)	
			Unit-I	Unit-II
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	33.39	38.69
2	Sulphur dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	1170.75	1257.2
3	Oxide of nitrogen (as NO <sub>x</sub> ) at 15 % O <sub>2</sub>	mg/Nm <sup>3</sup>	381.1	354.74

**TABLE 6.3: DG STACK MONITORING RESULTS**

Parameter	Unit	(Apr.2020 to Sep.2020)		
		DG Set-I	DG Set-II	DG Set-III
Particulate Matter (PM)	mg/Nm <sup>3</sup>	40.70	37.90	29.63
Oxide of Nitrogen (NO <sub>x</sub> ) at 15% O <sub>2</sub>	ppm	313	278	255
Carbon monoxide (CO)	mg/Nm <sup>3</sup>	102	85	95
NMHC as C at 15% O <sub>2</sub>	mg/Nm <sup>3</sup>	32	26	31

## 7 WATER QUALITY RESULTS [GROUND/ SURFACE]

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

The measurements were conducted during the period of Apr-2020 to Sept-2020. The parameters covered in the monitoring are depict below:

**TABLE 7.1: RESULTS OF GROUND WATER MONITORING**

Quarter 1 <sup>st</sup> (Apr-2020 to June-2020)						
S. No.	Parameter	Kawai	Salpura	Kawai Pond	South of Ash Dyke - Labour Colony	NW of Ash Dyke - Near Nimoda Railway Crossing
1	Ph	7.22	7.35	8.51	7.22	7.38
2	Conductivity	892	994	560	310	588.0
3	T. Alkalinity	424	310	270	48	148
4	Copper (Total)	0.05	0.04	0.08	0.06	0.04
5	Iron (as Fe)	0.06	0.03	0.20	0.60	0.55
6	Zinc	0.03	0.02	0.09	0.11	0.12
7	TDS	498	485	270	150	275
8	T. Hardness	356	344	216	180	420
9	Chloride	120.4	57.4	77.9	40.9	79.4

Quarter 2 <sup>nd</sup> (July-2020 to Sept-2020)						
S. No.	Parameter	Kawai	Salpura	Kawai Pond	South of Ash Dyke - Labour Colony	NW of Ash Dyke - Near Nimoda Railway Crossing
1	pH	7.84	7.28	7.91	6.31	6.64
2	Conductivity	591	460	436	143	155
3	T. Alkalinity	528	322	282	53	113
4	Copper (Total)	0.08	0.07	0.09	0.04	0.08
5	Iron (as Fe)	0.04	0.03	0.05	0.26	0.19
6	Zinc	0.03	0.02	0.04	0.8	0.9
7	TDS	368	261	217	86	79
8	T. Hardness	564	442	336	221	451
9	Chloride	230.92	221.93	195.93	38.98	16.99

## 8 STP WATER

The measurements were conducted during the period of October 2019 to March 2020. The parameters covered in the monitoring are depict below:

**TABLE 8.1: RESULTS OF STP WATER**

Quarter 1 <sup>st</sup> (Apr-2020 to June-2020)							
S. No.	Parameter	STP (10 KLD): Near S.N-III	STP (10 KLD): Near 3 BHK	STP (45KLD): Near Adani Vidyalaya	STP (10 KLD): Near Service Building	Near Health Centre : Township	60 KLD Nr.1BHK
1	pH	7.78	7.47	7.65	7.67	7.72	8.14
2	TSS	67.0	50.0	69.0	45.0	57.0	61.0
3	Oil & Grease	0.8	0.4	0.4	0.8	0.8	0.4
4	Biochemical Oxygen Demand (3 Days at 27 C)	19.0	17.0	18.0	23.0	19.0	20.0
5	Chemical Oxygen Demand	92.0	88.0	100	116	104	96.0
6	Free Available Chlorine	BDL	BDL	BDL	BDL	BDL	BDL
7	Nitrate Nitrogen	2.80	3.08	2.52	4.48	3.36	3.64
8	Ammonical Nitrogen (as N)	28.56	29.68	24.36	26.32	23.24	28.84
9	Total Kjeldahl Nitrogen (as N)	31.36	32.76	26.88	30.80	26.60	32.48

Quarter 2 <sup>nd</sup> July-2020 to Sept-2020)							
S. No.	Parameter	STP (10 KLD): Near S.N-III	STP (10 KLD): Near 3 BHK	STP (45KLD): Near Adani Vidyalaya	STP (10 KLD): Near Service Building	Near Health Centre : Township	60 KLD Nr.1BHK
1	pH	7.42	7.22	7.26	7.71	7.31	7.02
2	TSS	74.0	22.0	67.0	39.0	23.0	42.0
3	Oil & Grease	BDL	BDL	0.8	0.4	BDL	1.2
4	Biochemical Oxygen Demand (3 Days at 27 C)	17.4	19.2	13.8	13.8	15.0	13.2
5	Chemical Oxygen Demand	52.0	36.0	84	48.0	76.0	76
6	Free Available Chlorine	BDL	BDL	BDL	BDL	BDL	BDL
7	Nitrate Nitrogen	2.80	2.24	2.52	2.24	2.24	2.52
8	Ammonical Nitrogen (as N)	11.76	16.52	27.44	39.48	27.72	32.48
9	Total Kjeldahl Nitrogen (as N)	14.56	18.76	29.96	41.72	29.96	35.0

## 9 ETP WATER

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The measurements were conducted during the period of April-2020 to September-2020. The parameters covered in the monitoring are depict below:

**TABLE 9.1: RESULTS OF ETP OUTLET**

S. No.	Parameter	Unit	Quarter 1 <sup>st</sup> (Apr-2020 to June-2020)	Quarter 2 <sup>nd</sup> (July-2020 to Sept-2020)
1	pH	-	7.64	8.22
2	Temperature	mg/l	27.9	31.1
3	Oil & Grease	°C	0.8	1.2
4	Biochemical Oxygen Demand (3 Days at 27°C)	mg/l	15.0	16.2
5	Chemical Oxygen Demand	mg/l	72.0	56.0
6	Free Available Chlorine	mg/l	BDL	BDL
7	Iron	mg/l	0.04	0.05
8	Zinc	mg/l	0.015	0.018
9	Copper	mg/l	0.050	0.043
10	Conductivity	mg/l	1326.0	762.0
11	TSS	mg/l	49.0	36.0
12	Chromium	mg/l	0.018	0.019



## 10 ASH RECOVERY WATER

The measurements were conducted during the period of Jan-2020 to September-2020. The parameters covered in the monitoring are depict below:

**TABLE 10.1: RESULTS OF ASH RECOVERY WATER Sample.**

S. No.	Parameter	Units	(Jan-.2020 to Sep.2020)	
			Ash Recovery Pump House 1	Ash Recovery Pump House 2
1	Lead (as Pb)	mg/l	-	BDL
2	Arsenic (as As)	mg/l	-	BDL
3	Total Chromium (as Cr)	mg/l	-	BDL
4	Cadmium (as Cd)	mg/l	-	BDL
5	Mercury (as Hg)	mg/l	-	BDL

S. No.	Parameter	Units	(Jan-.2020 to Sep.2020)	
			Ash Recovery Pump House 1	Ash Recovery Pump House 2
1	Lead (as Pb)	mg/l	0.06	-
2	Arsenic (as As)	mg/l	0.05	-
3	Total Chromium (as Cr)	mg/l	BDL	-
4	Cadmium (as Cd)	mg/l	BDL	-
5	Mercury (as Hg)	mg/l	BDL	-

**Note-** Due to Covid -19 Pandemic, Third party was unable to carried out Environment monitoring. Hence, Ash recovery water results as similar to pervious report in above table

## 11 FLY ASH [SILO]

The measurements were conducted during the period of Jan-2020 to Sep 2020. The parameters covered in the monitoring are depict below:

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

S. No.	Parameter	Unit	(Jan-2020 to Sep 2020)
1	Arsenic (As)	mg/kg	BDL
2	Mercury (Hg)	mg/kg	BDL
3	Lead as Pb	mg/kg	0.56
4	Total Chromium as Cr	mg/kg	5.68
5	Cadmium (Cd)	mg/kg	0.46
6	Iron	%	0.84
7	Nickel	mg/kg	BDL
8	Copper	mg/kg	25.9
9	Zinc	mg/kg	61.3

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

S. No.	Parameter	Unit	(Jan-2020 to Sep 2020)
1	Arsenic (As)	mg/kg	BDL
2	Mercury (Hg)	mg/kg	BDL
3	Lead as Pb	mg/kg	BDL
4	Total Chromium as Cr	mg/kg	1.85
5	Cadmium	mg/kg	BDL
6	Iron	%	0.91
7	Nickel	mg/kg	BDL
8	Copper	mg/kg	18.31
9	Zinc	mg/kg	45.9

**Note-** Due to Covid -19 Pandemic, Third party was unable to carried out Environment monitoring. Hence, Ash recovery water results as similar to pervious report in above table.

## 12 SOIL

The measurements were conducted during the period of Jan- 2019 to Sep- 2020. The parameters covered in the monitoring are depict below:

**TABLE 12.1: RESULTS OF SOIL MONITORING**

S. No.	Parameter	(Jan.2020 to Sep.2020)		
		Nimoda Village	Kawai Village	Phulbaroda Village
1	Boron [mg/kg]	BDL	BDL	BDL
2	Calcium as CaO [%]	1.45	2.12	1.23
3	Magnesium as MgO [%]	0.41	1.54	0.88
4	Potassium as K <sub>2</sub> O [%]	0.24	0.41	0.38
5	Iron as Fe [%]	2.86	3.25	2.78
6	Manganese as Mn [mg/kg]	498.19	583.95	584.19
7	Phosphorus [%]	0.0021	0.0065	0.0023



**ADANI POWER RAJASTHAN LIMITED  
2X660 MW KAWAI THERMAL POWER STATIONS**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
<b>Date</b>	<b>UNIT 1</b>	<b>Unit 2</b>
<b>PM (mg/Nm<sup>3</sup>)</b>		
01/04/2020	Shutdown	Shutdown
02/04/2020	Shutdown	Shutdown
03/04/2020	Shutdown	Shutdown
04/04/2020	Shutdown	Shutdown
05/04/2020	Shutdown	Shutdown
06/04/2020	Shutdown	Shutdown
07/04/2020	Shutdown	Shutdown
08/04/2020	Shutdown	Shutdown
09/04/2020	Shutdown	Shutdown
10/04/2020	Shutdown	Shutdown
11/04/2020	Shutdown	Shutdown
12/04/2020	Shutdown	Shutdown
13/04/2020	Shutdown	Shutdown
14/04/2020	Shutdown	Shutdown
15/04/2020	Shutdown	Shutdown
16/04/2020	Shutdown	Shutdown
17/04/2020	Shutdown	27.53
18/04/2020	Shutdown	27.39
19/04/2020	Shutdown	26.87
20/04/2020	Shutdown	30.64
21/04/2020	Shutdown	30.68
22/04/2020	Shutdown	29.50
23/04/2020	Shutdown	28.92
24/04/2020	Shutdown	28.69
25/04/2020	Shutdown	31.70
26/04/2020	Shutdown	32.20
27/04/2020	Shutdown	35.14
28/04/2020	Shutdown	33.22
29/04/2020	Shutdown	32.31
30/04/2020	21.37	30.86
<b>Min</b>	<b>21.37</b>	<b>26.87</b>
<b>Max</b>	<b>21.37</b>	<b>35.14</b>
<b>AVG</b>	<b>21.37</b>	<b>30.40</b>

## 2X660 MW KAWAI THERMAL POWER STATIONS

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date	UNIT 1	Unit 2
PM (mg/Nm <sup>3</sup> )		
01/05/2020	23.65	27.50
02/05/2020	31.01	28.05
03/05/2020	31.69	27.27
04/05/2020	24.50	33.63
05/05/2020	22.11	Shutdown
06/05/2020	22.65	Shutdown
07/05/2020	19.94	Shutdown
08/05/2020	27.23	Shutdown
09/05/2020	26.74	Shutdown
10/05/2020	27.64	Shutdown
11/05/2020	20.49	Shutdown
12/05/2020	13.53	Shutdown
13/05/2020	22.22	Shutdown
14/05/2020	36.12	25.78
15/05/2020	26.03	35.09
16/05/2020	39.74	37.65
17/05/2020	22.22	35.09
18/05/2020	39.47	34.44
19/05/2020	37.97	34.61
20/05/2020	32.85	21.01
21/05/2020	36.69	Shutdown
22/05/2020	29.35	Shutdown
23/05/2020	33.62	Shutdown
24/05/2020	26.38	38.63
25/05/2020	27.18	37.13
26/05/2020	26.31	32.38
27/05/2020	25.05	32.76
28/05/2020	21.52	29.17
29/05/2020	24.95	30.08
30/05/2020	20.71	32.50
31/05/2020	13.08	28.70
<b>Min</b>	<b>13.08</b>	<b>21.01</b>
<b>Max</b>	<b>39.74</b>	<b>38.63</b>
<b>AVG</b>	<b>26.86</b>	<b>31.66</b>

**ADANI POWER RAJASTHAN LIMITED  
2X660 MW KAWAI THERMAL POWER STATIONS**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
<b>Date</b>	<b>UNIT 1</b>	<b>Unit 2</b>
	<b>PM (mg/Nm<sup>3</sup>)</b>	
01/06/2020	14.17	29.13
02/06/2020	21.13	30.45
03/06/2020	22.52	31.04
04/06/2020	20.52	30.09
05/06/2020	16.68	29.37
06/06/2020	22.80	33.82
07/06/2020	20.74	30.09
08/06/2020	26.91	33.37
09/06/2020	35.41	32.78
10/06/2020	24.89	32.07
11/06/2020	24.15	30.72
12/06/2020	26.59	30.79
13/06/2020	24.46	32.22
14/06/2020	20.67	29.06
15/06/2020	25.53	30.43
16/06/2020	25.35	33.31
17/06/2020	20.61	30.91
18/06/2020	21.97	31.74
19/06/2020	18.77	31.10
20/06/2020	17.34	30.42
21/06/2020	20.28	31.61
22/06/2020	26.88	34.63
23/06/2020	22.08	35.63
24/06/2020	Shutdown	34.23
25/06/2020	Shutdown	32.86
26/06/2020	Shutdown	30.78
27/06/2020	38.74	29.71
28/06/2020	28.10	33.86
29/06/2020	28.95	37.12
30/06/2020	22.65	33.49
<b>Min</b>	<b>14.17</b>	<b>29.06</b>
<b>Max</b>	<b>38.74</b>	<b>37.12</b>
<b>AVG</b>	<b>23.66</b>	<b>31.89</b>

**ADANI POWER RAJASTHAN LIMITED  
2X660 MW KAWAI THERMAL POWER STATIONS**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
<b>Date (DD/MM/YY)</b>	<b>UNIT 1</b>	<b>Unit 2</b>
	<b>PM (mg/Nm<sup>3</sup>)</b>	
01/07/2020	NA	NA
02/07/2020	NA	NA
03/07/2020	NA	NA
04/07/2020	19.04	32.78
05/07/2020	16.35	33.84
06/07/2020	19.72	32.09
07/07/2020	18.98	34.28
08/07/2020	22.35	29.3
09/07/2020	22.89	30.04
10/07/2020	20.44	30.2
11/07/2020	20.58	31.5
12/07/2020	19.7	29.88
13/07/2020	27.44	30.44
14/07/2020	32.07	30.21
15/07/2020	26.02	35.78
16/07/2020	23.57	32.54
17/07/2020	24.86	33.94
18/07/2020	29.22	37.6
19/07/2020	26.09	34.29
20/07/2020	23.74	31.61
21/07/2020	24.81	32.99
22/07/2020	25.5	33.42
23/07/2020	21.61	32.8
24/07/2020	17.93	31.99
25/07/2020	24.77	32.49
26/07/2020	25.46	32.24
27/07/2020	30.98	35.57
28/07/2020	27.58	33.26
29/07/2020	24.4	35.31
30/07/2020	26.63	38.81
31/07/2020	23.92	37.51
<b>Min</b>	<b>16.35</b>	<b>29.30</b>
<b>Max</b>	<b>32.07</b>	<b>38.81</b>
<b>AVG</b>	<b>23.83</b>	<b>33.159</b>

**ADANI POWER RAJASTHAN LIMITED  
2X660 MW KAWAI THERMAL POWER STATIONS**

<b>CONTINUOUS EMISSION MONITORING RESULTS</b>		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
<b>Date (DD/MM/YY)</b>	<b>UNIT 1</b>	<b>Unit 2</b>
	<b>PM (mg/Nm<sup>3</sup>)</b>	
01/08/2020	27.48	33.94
02/08/2020	28.6	34.27
03/08/2020	22.28	32.59
04/08/2020	26.14	35.26
05/08/2020	28.73	40.63
06/08/2020	23.22	35.97
07/08/2020	30.69	41.27
08/08/2020	31.43	38.03
09/08/2020	22.88	36.47
10/08/2020	21.94	35.56
11/08/2020	22.07	34.56
12/08/2020	23.97	35.03
13/08/2020	25.88	36.55
14/08/2020	25.76	38.15
15/08/2020	22.72	33.82
16/08/2020	24.22	32.72
17/08/2020	30.61	36.37
18/08/2020	31.69	36.87
19/08/2020	22.04	31.69
20/08/2020	19.26	33.1
21/08/2020	29.33	39.02
22/08/2020	28.32	36.99
23/08/2020	S/D	35.16
24/08/2020	S/D	35.37
25/08/2020	S/D	34.41
26/08/2020	25.05	34.8
27/08/2020	31.04	39.51
28/08/2020	29.36	38.12
29/08/2020	35.66	39.58
30/08/2020	30.72	37.69
31/08/2020	21.68	33.67
<b>Min</b>	<b>19.26</b>	<b>31.69</b>
<b>Max</b>	<b>35.66</b>	<b>41.27</b>
<b>AVG</b>	<b>26.59</b>	<b>36.06</b>



**ADANI POWER RAJASTHAN LIMITED  
2X660 MW KAWAI THERMAL POWER STATIONS**

CONTINUOUS EMISSION MONITORING RESULTS		
<b>Station: Stack Attached to Boiler 1 &amp; 2</b>		
<b>Report type: Mean &amp; Daily</b>		
<b>Time Base: 24 Hour</b>		
Date (DD/MM/YY)	UNIT 1	Unit 2
<b>PM (mg/Nm<sup>3</sup>)</b>		
01/09/2020	21.04	33.94
02/09/2020	21.07	34.27
03/09/2020	28.44	32.59
04/09/2020	25.47	35.26
05/09/2020	30.16	40.63
09/09/2020	23.88	35.97
07/09/2020	25.21	41.27
07/09/2020	25.7	38.03
09/09/2020	36.01	36.47
10/09/2020	32.18	35.56
11/09/2020	34.78	34.56
12/09/2020	35.18	35.03
13/09/2020	34.79	36.55
14/09/2020	34.88	38.15
15/09/2020	28.93	33.82
16/09/2020	38.16	32.72
17/09/2020	28.54	36.37
18/09/2020	24.69	36.87
19/09/2020	35.9	31.69
20/09/2020	41.41	33.1
21/09/2020	34.92	39.02
22/09/2020	35.73	36.99
23/09/2020	35.13	35.16
24/09/2020	35.42	35.37
25/09/2020	28.53	34.41
26/09/2020	27.31	34.8
27/09/2020	23.24	39.51
28/09/2020	26.93	38.12
29/09/2020	35.33	39.58
30/09/2020	30.90	37.69
<b>Min</b>	<b>21.04</b>	<b>31.69</b>
<b>Max</b>	<b>41.41</b>	<b>41.27</b>
<b>AVG</b>	<b>30.70</b>	<b>36.12</b>

## 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 2020	11.0 Meter	25.0 Meter	29.5 Meter
2.	May 2020	15..0 Meter	28.0 Meter	30.0 Meter
3.	June 2020	12.0 Meter	26.0 Meter	28.0 Meter
4.	July 2020	6.0 Meter	17.0 Meter	14.5 Meter
5.	August 2020	1.0 Meter	11.0 Meter	9.5 Meter
6.	September 2020	1.0 Meter	10.0 Meter	9.0 Meter

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

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

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

Adani Power Rajasthan Limited									
2 x 660 MW Kawai Thermal Power Station									
Ash Generation, Utilization and Disposal Details (LMT/Month)									
S. No.	Month	Total Ash Generation	Ash Utilization			Disposal 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				
Opening Balance									0.01033
1	Apr-20	0.31154	0.151986	0.06749	0.000000	0.23738	0.21948	70.45	0.01700
2	May-20	0.98299	0.382940	0.81541	0.051500	0.18185	1.24985	127.15	0.00272
3	Jun-20	1.06026	0.205140	0.90854	0.000000	0.14844	1.11368	105.04	0.00601
4	Jul-20	1.14122	0.045050	1.02240	0.084000	0.11983	1.15145	100.90	0.00500
5	Aug-20	1.19707	0.000000	1.07104	0.133000	0.12581	1.20404	100.58	0.00522
6	Sep-20	1.31981	0.191180	1.13902	0.000000	0.17817	1.33020	100.79	0.00784
<b>Total</b>		<b>6.012892</b>	<b>0.976296</b>	<b>5.023907</b>	<b>0.268500</b>	<b>0.99148</b>	<b>6.268703</b>	<b>104.25</b>	<b>0.0010330</b>

\* Balance quantity in Silo- 0.0010330

## Adani Power Rajasthan Limited

### Annexure: IV

#### Greenbelt Details:

Area (ha)	No. of Trees Planted	No. of Shrubs Planted
<b>104</b>	<b>1,04,575</b>	<b>1,60,000</b>

#### PLANTED SPECIES IN AND AROUND PLANT PREMISES

Sr. No.	Scientific Name	Common Name
<b>Tress</b>		
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.	Albizia lebeck	Siris
18.	Pongamia pinnata	Karanj
19.	Cordia longifolia	Lasoor
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
<b>Shrubs</b>		
30.	Allamanda	Yellow Bell
31.	Bougainvillea spectabilis	Bougainvillea/ Booganbel
32.	Clerodendrum inerme	Wild Jasmine
33.	Cycas circinalis	Cycas
34.	Euphorbia millii	Christ Thorn
35.	Ficus panda	Fig Tree
36.	Hymenocallis caroliniana	Spider Lily
37.	Ixora hybrida	Ixora
38.	Jasminum molle	Jui
39.	Jatropha curcas	Ratanjyot,
40.	Nerium indicum	Kaner
41.	Nerium odoratum	Kaner
42.	Plumeria alba	Champa
43.	Tecoma	Yellow Trumpetbush
44.	Ziziphus mauritiana	Ber/Bor/Indian plum



**adani**  
Foundation

**Corporate Social Responsibility**

**Six Month Report 2020-21**

**Adani Foundation, Kawai**



The image features a wide-angle, high-angle shot of a modern industrial facility. A long, straight asphalt road with white lane markings leads from the foreground towards the center of the image. On either side of the road are lush green trees and manicured lawns. In the middle ground, there are several white, rectangular industrial buildings. In the background, a large industrial complex is visible, including a prominent red and white striped chimney stack and various blue structures. The sky is bright blue with scattered white clouds. The Adani logo is positioned in the upper right quadrant, and the slogan 'Growth with Goodness' is to its right. Large, stylized text is overlaid on the lower left and center of the image.

adani

Growth  
with  
Goodness

Growth

With Goodness

For a New Normal India

# 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)

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

## Cluster Two ( Pipe Line Zone)

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

## Cluster Three (Anicut Area )

- Atru
- Aton
- Baldevpura  
(anicut)
- Kunjed

## Cluster Four ( Buffer Zone)

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

# Educating Children

Adani foundation focus on children and youth by providing quality education and an enabling environment for their holistic development.

- As per guidelines of central & state govt. all schools closed till 31<sup>st</sup> October 2020.
- Online classes and monitoring through google form is adopted option by Education department to maintain learning habits for students and teachers.
- Through SMILE (social media interface for learning engagement) program- Teachers calling to 5 students & parents everyday. Arrange quiz competition through Google form about shared video.
- Yoga day celebrated:- With our online yoga session Teachers from school and students from home connected.
- For online classes Education department also using our impressive UTTHAN content as available on Youtube.



Yoda Day Celebration



UTTHAN Content

Education exposes young people to a broader world, a world full of opportunity and hope.



# Adani Vidyalaya, Kawai

## Study on virtual platform:

- ❖ Ongoing online classes for AVK students.
- ❖ Conducted online exams for AVK students.
- ❖ Also successfully organized Parents-Teachers meeting on virtual platform.

## Event celebration and extracurricular activities @ AVK:

- ❖ Yoga day celebration- Teachers at school and students participate from home.
- ❖ Drawing competition- on Rainy day, on Gandhi jayanti & Adani foundation day.
- ❖ Independence day celebration with different activities- dialect, songs and dance performances.
- ❖ Celebration of Shri Krishna Janmasthanmi & Birthday of Hon'ble Chairperson Dr. Priti G Adani in unique way.
- ❖ Art and craft activities & Waste out of waste activities also performed by students on Raksha Bandhan and Teachers day.

## Training and skill enhancement workshop for teachers:

- ❖ Behavioral management and motivation activity for teachers.
- ❖ Quality Accreditation training- An initiative by the Head Education regarding online training session.
- ❖ A debate workshop was organized at AVK on the current topics, to create awareness among teachers.
- ❖ Spoken English practice session organized for better communication skills among teachers.

# Educating Children



Event Celebration

15<sup>th</sup> August Celebration

Training/Workshop

Drawing competition

# Enabling Healthcare

## ➤ **Support for district administration for Covid-19:**

- ❖ Monetary Contribution of 5 lacs to District Collector- Baran–Rajasthan.
- ❖ Support to District Authority by providing daily meal to 1000 migrant labor/ poor people for 8 days (Community Kitchen).
- ❖ Distribution of pamphlets for creating awareness in 28 villages by our MHCU team for Covid-19.
- ❖ We support to District administration with 2000 Liters of Sodium Hypo Chloride Chemical to carried out Sanitization drive in Baran District.
- ❖ Take initiative and approval from district collector and resume our MHCU service in lockdown period from 10<sup>th</sup> May 2020 for doorstep medical facilities and to spread awareness about Corona pandemic.

## ➤ **Community Health related activities:**

- ❖ Sanitization activities carried out in nearby villages to restrict the Corona spread.
- ❖ Spread awareness about prevention of Corona through MHCU medical team, Wall painting in villages, distribution of pamphlets among community.
- ❖ Mobile Health Care Unit services ongoing: Total 10,349 patients. (Males– 4278, Females- 3927, Children- 2144) Treated and medicine distributed.
- ❖ 30 patients were referred to govt. hospitals for their further treatment.
- ❖ 77 person tested with Sugar and Hypertension test in first 6 months.
- ❖ 59 Covid-19 Awareness sessions organized in vicinity. During the awareness sessions Our MHCU team share to our beneficiary regarding protective measure such as using face mask, wash hand properly with the soap and do not go outside, restrict large gathering and maintain social distancing during this pandemic situation.

**The first wealth is health**

# Community Health



Sanitization activities



Thermal Screening



Wall Painting at Village



Sanitization activities



Medicine Distribution



MHCU service



awareness on Corona



Wall Painting at Village

# Community Health (Case Study)

## Case Study

- Mrs. Gajri Bai is 78 years old. She lives in Mukundpura Village. She has Four son and a Daughter. His Sons are Farmer and her family is fully depended on MHCU project for Primary Health treatment.
- Mrs. Gajri Bai is regular beneficiary from last Five year. She is suffering from Asthma and general Weakness from last Five year. Five year back her treatment was going on from Private Clinic at Kawai but she did not go to Kawai continuously due to long distance and financial condition. There her treatment cost was not affordable for her family. She was very depressed about her health.
- Five years back she came to our MHCU site and told all problems to our MHCU team. MHCU Doctor diagnosed her. MHCU Doctor prescribed medicine Salbutamol 4 Mg and Salbutamol Syp regularly. MHCU Team together suggested her to take regular treatment from MHCU.
- After taking regular treatment and counselling from MHCU team her health has considerable improvement and she is totally satisfied. she is very thankful to Adani Foundation and HelpAge India together.

## Testimonial

I am very happy with MHCU Project. I have saving 400 rs per month from this project. I am very thankful to Adani Foundation for provide a batter treatment at village level and give a chance to live a batter life,



Mrs. Gajri Bai

# Community Health (Case Study)

## Case Study

Mr. Motilal is 66 years old. He lives in old age home, Atru. he has Six Son and a daughter. Six sons are stay separate from him. He was so sad about his family problem. He was not at all happy with his family's behavior.

Mr. Motilal is regular Beneficiary from last Four month. He is suffering from Asthma and general Weakness from last one year. Nobody in his family cared for him. His health was worse day by day. Four Month back he came to our MHCU Site and he share his family problem to our MHU staff. MHCU team Suggest him go at old age home, Jail colony , Atru and live a better life.

Now he is a very happy there and MHU team visit at old age home, Atru every Wednesday and provide Salbutamol 4 mg, Multivitamin tablets, regularly.

CSR team also taking regular follow up on her treatment.

After taking regular treatment and counseling from MHCU team her health has considerable improvement.

## Testimonial

I am very happy and I am totally satisfied with MHCU treatment and i am not feeling alone here because MHCU team take care of me like a family.

I am very thankful to Adani Foundation for provide a better treatment at village level



# Sustainable Livelihood

To reduce poverty and inequality by generating employment among poor households and by moving highly vulnerable households into sustainable livelihoods and toward economic stability.

## PASHUDHAN: -

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

- ❖ 315 Cattle covered thru artificial insemination.
- ❖ 181 new calf born till half year, 2020.

Sr. No.	Particular	Achievement till September, 2020
1	Artificial Insemination	1977
2	Pregnant	962
3	Calves	618
4	Vaccination	1418



AI Service



Vaccination



Calcium Distribution



Pregnancy Diagnoses

**Sustainable livelihood is important for a better constant life**

# Sustainable Livelihood

## KRISHI KOUSHAL: -

### ➤ Soil test:

- ❖ We collected Soil sample from 17 surrounding villages for Soil testing purpose.
- ❖ Soil card distributed to vicinity farmers and describe the all mentioned details to each farmer.

### ➤ Status of last year activity:

- ❖ As we provided seed in 2019. Vegetables well grown and sale in local market.
- ❖ During lockdown scenario people consume self grown vegetables and share with Neighbors.
- ❖ Orchard well developed and fruiting starts.

### ➤ Orchard development program:

- ❖ Farmers complete the pit digging work for new orchard development.
- ❖ Total 1700 fruit plantation distributed to 14 villages. Fruit plant like- Mango, Orange, Pomegranate Guava and lemon.
- ❖ Fertilizer distributed for better care and yield of fruit plant.
- ❖ We take cash contribution from farmers with Rs. 10 per plant and kind contribution labor work as pit digging work.



# Sustainable Livelihood

The image shows a printed Soil Health Card (SHC) with multiple tables and text in Hindi. The title at the top is 'मृदा स्वास्थ्य कार्ड' (Soil Health Card). The card contains information about the farmer, the soil, and the recommended fertilizer. The tables include:

कृषि क्षेत्र का नाम	किसान का नाम	किसान का पता
...	...	...

कृषि क्षेत्र का नाम	किसान का नाम	किसान का पता
...	...	...

कृषि क्षेत्र का नाम	किसान का नाम	किसान का पता
...	...	...

Soil Health Card



Distribution of SHC



Orchard Monitoring



Soil Collection



Vegetables



Fodder cutting machine



Plants Distribution



Kitchen Garden

# Developing Community Infrastructure

Adani Foundation believes in investing in promotion, protection and upgrading of physical capital, i.e., infrastructure and equipment.

➤ **Barla water tank:**

- ❖ Dome level work completed and Painting work in progress.
- ❖ Upstairs work at dome is in progress.

➤ **Construction of Bituminous road:**

- ❖ Bituminous road NH- 90 to Seendhani village completed.
- ❖ Community appreciate our efforts & grateful towards solve long awaiting road issue.
- ❖ Benefit reach to 2405 people of 5 villages (Seendhani, Amapura, Bamapura, Lolaheri, Hanihera, census 2011).

➤ **Honey-cub tree guard structure:**

- ❖ Tree guard constructed on the bank of road NH 90 to APRL main gate.
- ❖ Awareness slogan and wall painting work completed on tree guard structures.

➤ **Open Gymnasium:**

- ❖ Bhoomi-Poojan for open Gymnasium at Kunjer grazing land.

**Rural Infrastructure plays a crucial role in the progress of human development**

# Developing Community Infrastructure



Honey-cub tree guard structure



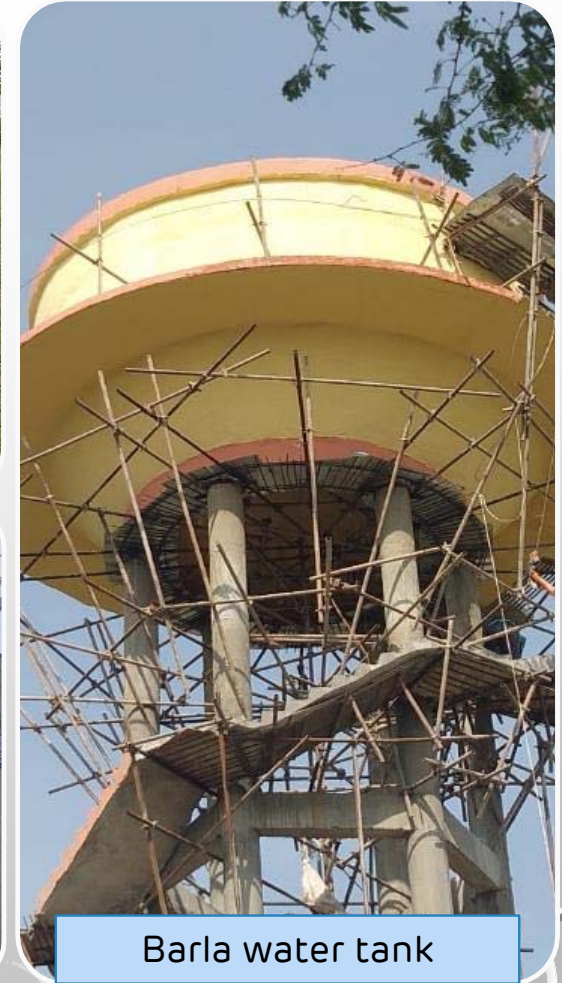
Bhoomi-Poojan for open Gymnasium



Bituminous road NH- 90 to Seendhani



Honey-cub tree guard structure



Barla water tank

# SuPoshan

To curb malnutrition amongst Children, Adolescent girls and pregnant & lactating Women.  
To create awareness about the issue of malnutrition and anaemia and related factors amongst all stakeholders and role they may play in curbing the issue.

## ➤ **Activities in Corona kaal:**

- ❖ Support to Aanganwadi centres for distribution of food packets under Govt. schemes for Coved-19.
- ❖ Door to door survey and screening of villagers with Aanganwadi workers for providing support to Health department.
- ❖ Anganwadi worker, ASHA and our Sangini jointly create awareness among community for prevention of Covid-19.
- ❖ Online monitoring of SAM child, as per resulted in previous measurement.
- ❖ Telephonic counselling by Suposhan officer for SAM, 0 to 2 year children, Adolescent girls (16 to 19) and pregnant women.

## ➤ **VAN MAHOTSAV:**

- ❖ 116 seeds kit distributed in SuPoshan working villages for develop Suposhan vatika.

## ➤ **Yoga Day:**

- ❖ All Sanginis actively involved and execute digital yoga session in all 25 villages.

## ➤ **World Breastfeeding Week:**

- ❖ Around 627 women involved and benefited from 28 villages.
- ❖ Organize Slogan writing, Drawing, Video & telephonic counselling, Small group meeting with RPA women.
- ❖ Awareness activity conducted through MHCU service.

## ➤ **POSHAN MAAH:**

- ❖ Celebrated September month as "POSHAN MAAH"- organize various awareness activities in all 28 villages.
- ❖ Around 1122 women and adolescent girls were benefited.
- ❖ During POSHAN MAAH; our Sangini attended interview of ND TV and its telecast at national level.

# SuPoshan



Awareness on Covid-19



BFW Celebration



Small Group Meetings



Pamphlet Distribution



Door to Door Survey



Yoga Day Celebration



# Closing Ceremony of SuPoshan

- Chief guest Shree Arindam Chatterjee (Station head-APRL) and Chatterjee ma'am join the program and appreciate our sangini work and project Suposhan.
- Station head share their views and hand over experience certificate to Sangini.
- Distribute Uniform, Bag and other materials for continues this noble work for our own community and lead the village in health perspective.
- This event conducted in two part, 1<sup>st</sup> in morning with 13 sangini and 2<sup>nd</sup> in evening with 12 Sangini.
- During event we follow all covid-19 related Govt. guidelines and precautionary measures.



# SAKSHAM

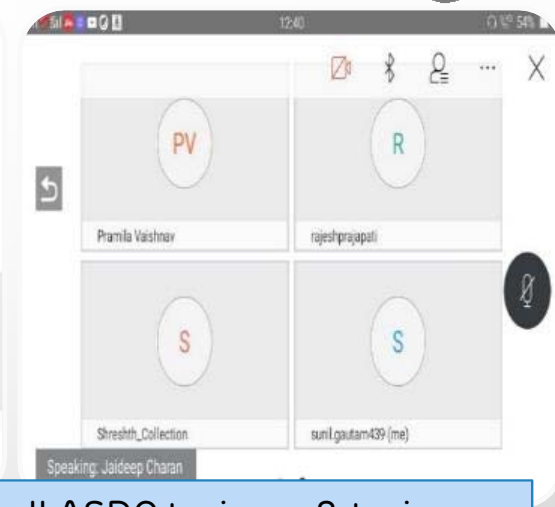
To empower and build skills of women and youth thru vocational training and enhance self-employment and self-reliance amongst the rural people.

- Regular interaction with all ASDC trainers & trainees for activity planning and conduct session for prevention and awareness about covid-19.
- Admission process:
  - ❖ 71 students taking admission in SAKSAHAM online classes in various non domain courses.
  - ❖ 950 Total calls; And ongoing telephonic counselling and motivates to our connections for admission in online courses.
  - ❖ 7 Video conference conducted for describe online courses detail and fee structure of SAKSAHAM online classes.
- Drawing competition:
  - ❖ Online Drawing competition organize with ASDC beneficiary, total 68 people participated.
  - ❖ Recognize to 5 best entries and 5 consolation prizes as selected by Jury of 3 senior officials of APRL.
- International Yoga day celebrated at Kawai; On digital platform total 33 families participated from ASDC side.
- Celebrate 4th anniversary of ASDC on digital platform, connect through VC to Head office and Kawai ASDC team.
- Provide an opportunity to trainee for earning by online reselling of various product through What'sApp and other social media platform.
- Provide an opportunity & counselling to trainee for job in YAZAKI company in Bhiwadi Rajasthan.
- Provide an job opportunity & counselling to ITI student for job in Ravi Techoforge and Jyoti CNC automation ltd. Rajkot.
- 10 trainee attended telephonic interview and video conference with Assure marketing and selected.
- During lockdown our DL trainee providing technical assistance to school going children for their online studies.
- Teachers and parents recognize the help of our DL trainee. They guiding for how to use smartphone for video conference and how attend online classes.

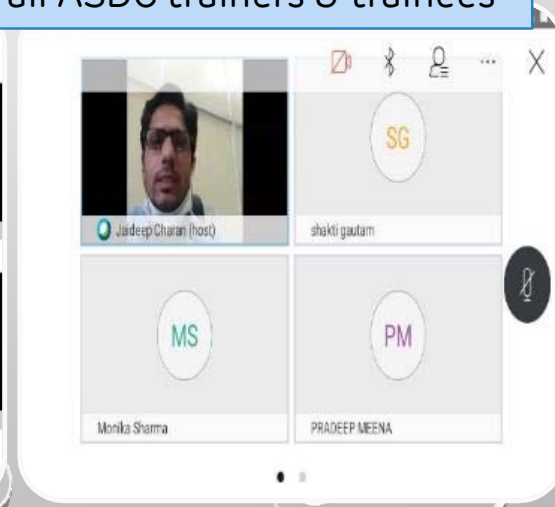
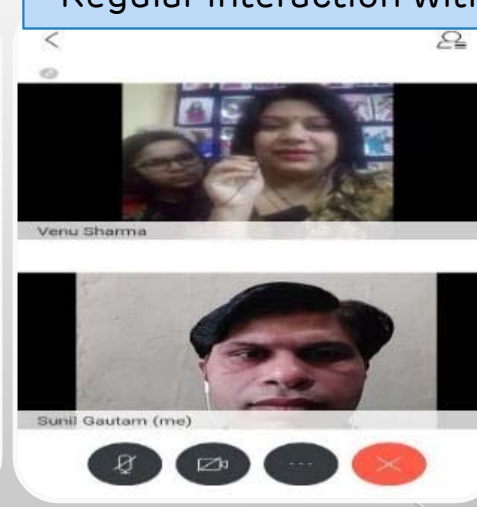
# SAKSHAM



Online Drawing competition



Regular interaction with all ASDC trainers & trainees





# SAKSHAM

- Mask stitching order of Rs. 25,000 received to ASDC trainees from Shanti Urja Ladies club of APRL colony.
- Mask stitching order of Rs. 30,000 received to ASDC trainees from Adani Power Rajasthan Ltd.
- Head HR- APRL Shri Ghanshyam das Garg visited to our ASDC Centre to appreciate mask making activity and handover remuneration.
- In this difficult situation our trainees earn Rs. 20 thousand with utilization of their skills as they learn at ASDC.
- This activities motivates to our trainees for taking step and initiative towards grab the opportunity in any situation.



# SAKSHAM (Success Story)

**Mrs. Reena Rajawat** is 38 year old resident of Kawai village. She is 10<sup>th</sup> pass housewife. Reena belongs to poor background she has 4 children and her husband doing a small shop in Kawai village. During mobilization activity she connect to us. During counselling she agreed to get admission in ASDC courses. She request to trainer to enroll in both SET and B&W course because she want to uplift own life and better future prospectus of her 4 children. In village area and small shop there not considerable as good livelihood. But passionate reena want to do something for her family and searching opportunities. Reena is very honest and passionate lady. After the completion of her training in Feburary 2020 she start to support her husband at shop and parallel start blouse stitching, fall picko of sarees and also try to setup Beauty parlor at home.



Mrs. Reena Rajawat

But scenario change Corona virus entered in India and spread nation wide; Govt. declared the lockdown. The family of 6 people in crises there is no resource for earning. In this tough situation we trying to motivates to our trainees but the situation is more crucial.

During video conference we just share the ideas for online reselling of products within the own circle. Reena is the first lady immediate call to us for detail guidance for this online reselling platform. We guide them and arrange meeting and associate with one online business firm. Reena convert this chance into opportunity and take a challenge in this remote location during this pandemic circumstances. She create own whatsapp group tie-up with sellers of rajputi dresses and othe product. Nowadays she is using her phone for other then social media and utilizing social media platform as market. In this small area she doing business in lockdown situation and supporting her family for better living. With this reselling platform she is working as entrepreneur and earning around Rs. 2000/- every month. Now she behave like business women every day booking parcel, online tracking, using digital payment methods like- paytm, Google pay & Phone pay. Regular interaction with seller and expanding her work and standing with good image in society.

She intends to settle her own online business. Reena enthusiastically gives all the credit to ASDC and her family thankful for this life changing opportunity in the current pandemic situation.

Reena is the great example of courage and determinism to face any hard situation.

# Employee Volunteer Program

- Mask stitching order of Rs. 55,000 placed to ASDC trainees under employee volunteer program.
- Celebrated Van-Mahotsav with community in association of Block administration and do plantation, Bhoomi poojan and mask distribution.
- Shanti Urja Club member from Adani Power Township visited to Aamli and Kunjer villages and distribute Masks and Soap to MNREGA laborers and spread Covid-19 awareness among community.
- In association with Safety department organize Covid-19 awareness session and distribute mask to all contract workers of plant in presence of all HOD's , Head O&M and Station head APRL.
- Vicinity people appreciate the efforts. EVP commended the way for strong relation with surrounding community.







adani

Growth  
with  
Goodness



Thank You

**adani**

**Power**

Ref: APRL/PK/GOVT/RSPCB/00538

Date: 26.09.2020

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

**Subject: Submission of Environmental Statement for the Financial Year 2019-20.**

**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 2019-20, 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, Tehsli Atru  
Baran 325 219  
Rajasthan, India  
CIN U40104GJ2008PLC052743

Tel +91 744-27-78600  
info@adani.com  
www.adanipower.com

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

**ENVIRONMENT STATEMENT**  
**FOR FINANCIAL YEAR**  
**2019 – 2020**



**ADANI POWER RAJASTHAN LIMITED**

**Village: Kawai, Taluka: Atru**

**Baran, Rajasthan**



## ENVIRONMENTAL STATEMENT

### FORM V

(See Rule 14)

**Environmental Statement for the financial year (April 2019 to March 2020)**

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

### 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)- Secondary-(STC Code) : Primary (Large Scale)
- iii) Production capacity-Units : 1320 MW (2 x 660MW) Power Generation
- iv) Year of establishment :  
**Unit#1** Commissioned on 28<sup>th</sup> May 2013  
**Unit#2** Commissioned on 31<sup>st</sup> December 2013  
(Consent to operate is valid up to 29.02.2024).
- v) Date of the last environmental statement submitted: **23.09.2019**

### PART B

Water and Raw Material Consumption:

1. Water consumption m<sup>3</sup>/d
  - a) Process : 936
  - b) Cooling : 54980
  - c) Domestic : 663

Name of Products	Process water consumption per unit of product output	
	During the previous financial year (2018-19)	During the current financial year (2019-20)
	(1)	(2)
Power	2.54 KL/MWh	2.56 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 (2018-19)	During the current financial year (2019-20)
(1) Coal	Power	570 gm/Kwhr	561 gm/Kwhr
(2) Fuel Oil	Power	0.08 ml/Kwhr	0.07 ml/kwhr

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

**PART C**

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

(Parameter as specified in the consent issued)

Sr. No.	Pollution	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)	Water	Nil	NA	NA
(b)	Air (Particulate Matter in mg/NM <sup>3</sup> )	Unit#1 : 2.11 TPD Unit#2 : 2.06 TPD	Unit#1 : 36.13 Unit#2 : 34.09	Within Limit specified in CTO

- **Water-** No discharge of waste water.

**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 (Kg)	
		During the previous financial year (2018-19)	During the current financial year (2019-20)
a)	From Process <ul style="list-style-type: none"> <li>• Used/Spent Oil</li> </ul>	<ul style="list-style-type: none"> <li>• 7.58 KL (Generated)</li> <li>• 8.72 KL (Sold Out)</li> <li>• 1.89 KL (Balance)</li> </ul>	<ul style="list-style-type: none"> <li>• 17.84 KL (Generated)</li> <li>• 12.22 KL (Sold Out)</li> <li>• 7.51 KL (Balance)</li> </ul>
	<ul style="list-style-type: none"> <li>• Discarded Containers</li> </ul>	<ul style="list-style-type: none"> <li>• 42 Nos. (Generated)</li> <li>• 42 (Sold Out)</li> <li>• 30 Nos. (Balance)</li> </ul>	<ul style="list-style-type: none"> <li>• 99 Nos. (Generated)</li> <li>• 60 (Sold Out)</li> <li>• 69 Nos. (Balance)</li> </ul>
b)	From pollution control facilities	NA	NA

**PART – E**

**Solid Wastes:**

Sr. No.	Solid Wastes	Total Quantity (Tons)	
		During the previous financial year (2018-19)	During the current financial year (2019-20)
a)	From Process (Bottom Ash)	0 (Laying in Ash Pond)	0 (Laying in Ash Pond)
b)	From pollution control facilities (Ash from ESP)	1027316 (Dispose to Cement & Brick Plant)	1330649 (Dispose to Cement & Brick Plant)
c)	Quantity recycled or re-utilized within the unit recycled or re-utilized	466558 (In reclamation of low laying area)	213831 (In reclamation of low laying area within 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 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, Nimbahera
  - Mangalam Cement Ltd.
  - Nuvoco Vistas Corp. Ltd.
  - Wonder Cement Ltd.
  - Shri Ram Cement Works
  - J.K.Cement Ltd. (Mangrol)
  - The India Cements Limited
  - ACC Limited
  - Ambuja Cement Ltd.
  - The India Cement Ltd.
  - Tsg Ashtech Movers Pvt. 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 M/s 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 Electro Static Precipitator (ESP).
- Chimney of 275m height is constructed.
- Other pollution control equipments 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 Each Gaseous OCEMS
- Utilization of rain water collected during monsoon in Rain Water Harvesting Pond

## PART - H

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

- Installation of Flue Gas Desulphurization (FGD) unit to reduce SO<sub>2</sub> emission as per CPCB direction.
- Installation of Flow monitoring device at both flue cane of Unit-1 & 2.
- Installation of upgraded Electronic Data Display Board for Real time data display in Public domain.

## PART - I

### **Miscellaneous**

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

1. 102857 trees planted up to financial year 2019-20 with 90% survival.
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 80m height in both the flue cane of 275m Chimney.
5. Ambient noise levels is being monitored at 10 identified locations within the plant premises.
6. EMS as per ISO 14001:2015 is implemented at Kawai Thermal Power Station and certified by TUV NORD CERT GmbH
7. Good housekeeping is maintained in and around the plant area. 5S initiative is taken up at Kawai Thermal Power Station.
8. Harness of solar energy is introduced by installation of Solar Street Light.
9. CTO compliance report is being submitted to RSPCB on quarterly basis.
10. Six monthly EC Compliance report is being submitted to RSPCB/MoEFCC on regular basis.
11. 5S Implementation for waste minimization
12. Integrated Management System has implemented.
13. Energy Management System has implemented.
14. MoEFCC, RSPCB approved third Party Environment Monitoring is being carried out at quarterly basis.



**Authorized Signatory  
(Adani Power Rajasthan Ltd.)**





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## 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

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer

# Adani Power Rajasthan Limited.

Annexure-VIII

<b>Expenditure for Environmental Protection &amp; CSR</b>		
<b>(Fig. in Rs. Lakhs)</b>		
<b>Sr. No.</b>	<b>Particular</b>	<b>Expenditure from Apr-20 to Sep-20</b>
1.	Rural Development/CER/CSR Activities	85.17
2.	Green belt Development (Horticulture)	35.00
3.	Legal, Consent fees	40.00
4.	Third party monitoring, Services and Equipment & Instruments maintenance, Communication cost.	46.00
5.	Insurance, training and external environmental management	0.25
<b>Total</b>		<b>206.42</b>

1504 01/15/2337  
210 01/15/2337



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

Petroleum & Explosives Safety Organisation (PESO)

पांचवा तल, ए-ब्लॉक, सी.जी.ओ.कॉम्प्लेक्स, सेमिनरी हिल्स

नागपुर- 440006

5th Floor, A-Block, CGO Complex, Seminary Hills,  
Nagpur - 440006



E-mail : explosives@explosives.gov.in

Phone/Fax No : 0712 -2510248, Fax-2510577

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

दिनांक /Dated : 16/04/2019

सेवा में /To,

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

123 APR 2019

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 पेट्रोलियम वर्ग B,C अधिष्ठापन - पेट्रोलियम नियम 2002 के अंतर्गत प्ररूप XV में जारी अनुज्ञप्ति सं P/HQ/RJ/15/2337 (P295058) - संशोधन 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) - granted in form XV under Petroleum Rules 2002 - Amendment regarding

महोदय /Sir

(:)

कृपया आपके उपर्युक्त विषय से संबंधित पत्र संख्या NIL दिनांक 26/03/2019 का संदर्भ ग्रहण करें ।

Reference to your letter No. NIL dated 26/03/2019 on the above subject.

दिनांक 31/12/2019 तक वैध अनुज्ञप्ति संख्या P/HQ/RJ/15/2337 (P295058) दिनांक 16/04/2019 निम्नलिखित वर्ग एवं मात्राओं में पेट्रोलियम भंडारण के लिए यथा संशोधित कर इस पत्र के साथ लौटाई जा रही है ।

Licence No. P/HQ/RJ/15/2337 (P295058) dated 16/04/2019 valid upto 31/12/2019 is returned herewith duly amended with respect to Lay out Amendment, Capacity Amendment,

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञप्ति क्षमता /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
<b>कुल क्षमता /Total</b>	<b>7075.00 KL</b>

कृपया पावती दें।

Please acknowledge the receipt.

Note : Your Balance Amount with the Organisation is ₹ 100000, which will be used for processing of the same Licence in future.

भवदीय /Yours faithfully,

((व्ही.के.मिश्रा))

(V K Mishra)

उप मुख्य विस्फोटक नियंत्रक  
Dy. Chief Controller of Explosives  
कुते मुख्य विस्फोटक नियंत्रक  
For Chief Controller of Explosives  
नागपुर/Nagpur

Copy forwarded to :-

1. The District Magistrate, BARAN(Rajasthan) with reference to his NOC No F-7/Jud/2012/5177-81 Dated 26/11/2012
2. Jt. Chief Controller of Explosives, North Circle, FARIDABAD. A Copy of the licence along with approved plan is enclosed.
3. The Dy. Chief Controller of Explosives, Jaipur. A Copy of the licence along with approved plan is enclosed.

For Chief Controller of Explosives  
Nagpur

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

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



फॉर्म 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)

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 04/12/2012 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 के अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. M/s Adani Power Rajasthan Limited., Kawai Thermal Power Project Near Salpura Railway S, Kawai, Kawai, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 valid only for the importation and storage of 7075.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/RJ/15/2337(P295058) dated 04/12/2012 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 2019 तक प्रवृत्त रहेगी।  
The Licence shall remain in force till the 31st day of December 2019

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 अिनन /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 अिनन /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 अिनन /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	7075.00 KL

December 4, 2012

  
Chief Controller of Explosives

1). Amendment dated - 16/04/2013

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

अनुज्ञप्त परिसर जिसकी विवरण सोमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शों 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.

नवीनीकरण के पृष्ठांक के लिए स्थान  
SPACE FOR ENDORSEMENT OF RENEWALS

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

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