



Power

Ref: APML/EMD/MOEF/EC/254/11/20
Date: 27/11/2020

To,
Additional Principal Chief Conservator of Forest (APCCF)
Ministry of Environment, Forest & Climate Change
Regional Office (WCZ),
Ground Floor, East Wing,
New Secretariat Building, Civil Line,
Nagpur-440001 (MH).

Sub: **Six Monthly Compliance Status report of Environmental Clearance of Tiroda Thermal Power Plant for Phase- I & II along with Environmental Monitoring reports- Reg.**

Ref: Environmental Clearance letter J 13011/4/2008-IA.II (T) dated 29.05.2008 & EC Amendment letter no. J-13011/4/2008 -IA II (T) dated: 21/03/2012.
Letter No. J-13012/81/2008-1A-II (T) dated - 22.04.2010 & EC Amendment Letter no. J-13012/81/2008 - IA II (T) dated: 30/03/2012 & 13/03/2014

Dear Sir,

With reference to above subject, please find enclosed herewith Six Monthly Environmental Clearance (EC) compliance status report along with environmental monitoring results like Ambient Air Quality, Stack Emission, Water Quality, Noise level, Soil, CAAQM, CEMS data, Met data, Green belt development and CSR reports for the period of **April'2020 to September'2020** in hard & soft (e-mail).

This is for your kind information & record please.

Thanking you

Yours faithfully,
for **Adani Power Maharashtra Limited**

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

Encl: **As above**

CC: Member Secretary
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The Regional Officer,
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**COMPLIANCE REPORT OF
ENVIRONMENTAL CLEARANCES**

**3300 (5X660) MW THERMAL POWER PLANT
PHASE - I & II**

at

**TIRORA, DISTRICT GONDIA
MAHARASHTRA**

Submitted to:

**Regional Office (WCZ)
Ministry of Environment, Forest & Climate Change
Central Pollution Control Board, New Delhi &
Maharashtra Pollution Control Board, Mumbai.**

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Submitted By:

**Environment Management Department
Adani Power Maharashtra Limited**

**Plot NO: A -1, Tirora Growth Centre
MIDC, Tirora, Gondia - 441911 (M.H)**

PERIOD: APRIL'2020- SEPTEMBER'2020

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Introduction

Adani Power Maharashtra Ltd, (APML), a wholly owned company of Adani Power Limited has established 3300 MW (5x660) Coal-based Thermal Power Plant at Tiroda, District Gondia in Maharashtra in two phases as below:

Phase I: 2 x 660 MW

Phase II: 3 x 660 MW

The plant site is located at Tiroda Growth Centre of MIDC (Maharashtra Industrial Development Corporation) developed area near Tiroda, District Gondia in Maharashtra. The Villages, Gumadhawara, Khairbodi, Chikhali, Churdi, Bhiwapur, Kachewani and Mendipur, surround the site. The power plant is based on supercritical, energy efficient & environment friendly technology.

APML has been granted Environmental Clearances from Ministry of Environment & Forest, Consent to Establish & Consent to Operate from Maharashtra Pollution Control Board for phase I & II (Unit 1, 2, 3, 4 & 5). As a part of the compliance of statutory requirements, environmental quality monitoring is being done regularly at locations suggested by Sub- Regional Officer, MPCB, Bhandara on the basis of micrometeorological parameters. Also, three nos. of Continuous Ambient Air Quality Monitoring System have been established in three different locations inside the plant boundary as per wind rose and suggested by SRO, MPCB Bhandara. Also third party lab (M/s Enviro Analyst & Engineers Pvt. Ltd, Mumbai) carried out, environmental monitoring & analysis for the power plant.

Point wise compliance status of Environmental Clearance for Phase -1 & 2 is furnished herewith.

**Compliance status on Environmental Clearance
(Phase I: 2x660 MW Coal based Thermal Power Plant)**

Letter No.J-13011/4/2008-1A-II (T) dated 29.05.2008 and
Its subsequent Amendment dated 21.03.2012

Sr. No.	Conditions	Compliance Status
(i)	The total land requirement for the project shall be restricted to 210 ha.	Complied. The project has undergone expansion. The total area has changed and the same has been approved by MoEF&CC. The total area required for all two phases is 565.84 ha.
(ii)	Sulphur and ash content in the coal to be used in the project shall not exceed 0.5 % and 29.57 % respectively.(Amendment dt. 21.03.2012)	Being Complied. Sulphur & ash contents are below 0.5 % and 29.57 % respectively.
(iii)	A bi-flue stack of 275 m height shall be provided with continuous online monitoring equipment's for SOx, NOx and Particulate matter. Exit velocity of flue gases shall not be less than 22 m/sec.	Bi-flue Stack containing two flues of phase-I of 275 meters is installed with On-line monitoring equipment for SO ₂ , NO _x & PM. Exit velocity of flue gas is more than 22m/sec.
(iv)	High efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Highly efficient Electrostatic Precipitators with efficiency of 99.93 % have been installed for each boiler (ESPs) to meet particulate emission less than 50 mg/Nm ³ . Monitoring report is enclosed as Annexure I
(v)	Space provision shall be kept for retrofitting of FGD, if required at a later date.	Space have been provided for FGD installation in the plant layout. APML is under process to install FDG
(vi)	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.	Adequate air pollution control measures such as dust extraction system (Cyclone followed by bag filters) in coal crusher and coal transfer points (JNTs), rain gun type dust suppression system in coal yard and dry fog type dust suppression system in belt conveyor have been provided.
(vii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided and its utilization to the maximum extant shall be ensured. 100% fly ash utilization shall be ensured from 5 th year onward. Unutilized fly ash shall be disposed off in the ash pond in the form of High Concentrated Slurry and the bottom ash in conventional slurry mode.	Fly ash silos (06) established to collect dry ash for further utilization. Unutilized ash is being disposed off in the ash pond in lean slurry mode & High Concentration Slurry Disposal mode with recirculation of ash water. APML is India's first ever dispatch of conditioned ash in BOXN (open) wagons and has successfully demonstrated usage of Bottom ash in manufacturing of Red Bricks. APML has also done the highest ever dispatch in one day which was more than 12,000 MT of Fly Ash through Rack.
(viii)	Ash pond shall be lined with HDPE lining.	Well design ash dyke with LDPE lining has

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	Adequate safety measures shall also be implemented to protect the ash dyke from getting breached. Guard drains shall be provided all along the periphery of the ash dyke to avoid contamination of soil and surface water in case of run-off.	been established as per the guidelines of MoEF&CC, CEA & CPCB. Adequate safety measures are being taken for any unforeseen incidents. Guard drains & guard pond established.
(ix)	Water requirement shall not exceed 36 MCM/year. No ground water shall be extracted for this power project including during construction phase.	This quantity is adequate to meet the plant's requirement. Monthly water consumption report is being submitted regularly to MPCB, Mumbai. Water allocation from Wainganga River for 70 MCM for both phases,
(x)	Closed cycle cooling system with cooling towers shall be provided. Cycle of concentration (COC) of at least 5.5 shall be adopted and the effluents treated as per the prescribed norms.	Complied. COC of 5.5 is being maintained.
(xi)	The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon for storm water. Arrangements shall be made that effluents and storm water do not get mixed.	All the effluent treated adequately in the ETP and STP. Treated water is being reused within the plant. The concept of "Zero Discharge Condition" implemented except during monsoon period. Separate drainage network established for storm water.
(xii)	A sewage treatment plant shall be provided and the treated sewage shall be used for raising green belt/plantation.	Sewage Treatment Plants have been installed & treated water reused suitably within the plant premises for green belt development.
(xiii)	Rainwater harvesting should be adopted. Central Ground water Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Rain Water Harvesting study carried out & report submitted to Regional Director, Central Ground Water Board, Nagpur & Member Secretary- Central Ground Water Authority, New Delhi. Rainwater harvesting within the project has been constructed/ implemented to store the rain water.
(xiv)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Details of these measures along with location plant layout shall be submitted to Ministry as well as to the regional Office of the Ministry at Bhopal.	Adequate safety team with adequate safety measures is available in the plant site to take preventive control measures. Fire hydrant and rain gun type water sprinklers established in the coal yard. Copy of control measures and location plant layout has already submitted.
(xv)	Storage facilities for liquid fuel such as LDO to be used as auxiliary fuel in the project shall be made in the plant area where risk is minimum to the storage facilities. Adequate assessment of risk management shall be made in the Disaster management Plan for the same. Mock drills shall be conducted regularly as plan.	The fuel LDO properly stored in minimum risk area & as per the norms storage location approved by the Chief Controller of Explosive. Disaster management plan and On-site emergency plan prepared & Mock drills are being conducted periodically.

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	Necessary clearance as may be applicable to such storage under HSM Rules shall be obtained.	
(xvi)	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and periodic reports shall be furnished to the Regional Office of this Ministry.	Regular monitoring of ground water carried out around ash pond area. Monitoring results are being submitted to Regional Officer, MoEF and MPCB regularly. Please refer Annexure - I .
(xvii)	A green belt of adequate width and density shall be developed around the plant periphery covering at least 69.64 ha of project area preferably with local species.	Green belt development/ plantations are being carried out on available land. Our efforts are being made to develop more greenery in and around plant premises. We have already established our nursery to develop saplings for afforestation & horticultural activities. Besides this, we have also developed lawn & gardens to create aesthetic view inside the plant premises. APML have developed green belt/plantation in 258 ha land which is more than the norms of 33% of total land area. Green belt/plantation details is enclosed as Annexure - VI .
(xviii)	A plan for conservation of fauna reported in the study area shall be prepared in consultation with State Forests and Wildlife Department within 3 months and shall be implemented effectively.	Conservation plan of Fauna in the study area was prepared in consultation with State Forest dept. and submitted to Wildlife warden, Govt. of Maharashtra with compliance report.
(xix)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid and sanitation facility provided for the drivers and contract workers during construction phase.
(xx)	Leq of Noise levels emanating from gas and steam turbines shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as steam & gas turbines etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.	Necessary actions have been taken care to maintain Ambient Noise levels within 75 db(A) during plant operation. The personal protective equipment's have been provided to workers & employees working in noisy areas. Noise level monitoring is being carried out regularly and reports submitted to the Board. A complete medical checkup with audiometric test of workers & employees are being carried out as per frequency. Please refer Annexure -I & IA
(xxi)	Regular monitoring of ground level concentration of SO ₂ , NO _x , SPM and RSPM 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	Regular monitoring of PM10, PM2.5, SO ₂ & NO _x are being carried out as per frequency & monitoring results are well within the norm. Monitoring results are being submitted to MPCB monthly. Ambient Air Quality monitoring stations established in consultation with Sub- Regional Officer, MPCB. Please refer Annexure -I & IA

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	monitoring shall be decided in consultation with SPCB. Periodic reports (six monthly) shall be submitted to the Regional Office of this Ministry.	
(xxii)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. Copy of the same already submitted to your good office.
(xxiii)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	We have already established Environment Management Dept. headed by AGM & supported by Environmental Engineers, Chemist & Horticulturist. Environmental laboratory has been established to monitor Environmental Quality Parameters for Ambient Air, Water, Stack emission monitoring etc. Environmental Management System as per EMS ISO 14001:2015 implemented under Integrated Management System. Our Environmental lab is Accredited with NABL as per ISO/IEC 17025:2017 which is valid up to 27.06.2021.
(xxiv)	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/Regional Office/CPCB/SPCB.	Six monthly compliance report is regularly being submitted to MoEF, CPCB & MPCB. The same is sent by email also. Compliance report for the period of October '19 to March '2020 has been submitted vide our letter no. APML/EMD/MoEF/EC/235/05/20 dated 28.05.2020.
(xxv)	Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Being Complied. The EIA & EMP report with additional information is already submitted. Six monthly updated compliance report is being submitted on regularly basis. Compliance status report is also uploaded on https://parivesh.nic.in/ and www.adanipower.com company's website.

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(xxvi)	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.	Separate fund has been already allocated for environmental protection. Expenditure details in F.Y 19 – 20 (in Lakhs):		
		SL. No	Particulars	Cost (in Lac.)
		1	Pollution control equipment O &M	2397.33
		2	Pollution Monitoring, Study and analysis	96.81
		3	Green belt Development	303.82
		4	Rural Development/CSR	406.09
		5	Legal & consent fees	381.89
		6	Training & Awareness	1.77
		7	Waste Management	3495.69
		Total	7083.41	
(xxvii)	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.		
(xxviii)	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bhopal /the CPCB/the SPCB who would be monitoring the compliance of environmental status.	APML has always extend full cooperation to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bhopal / CPCB/ MPCB etc.		
(xxix)	The project proponent shall upload the status of compliance of the conditions stipulated in the environmental clearance issued vide this Ministry's letter of even no. dated 30.03.2007, in its website and uploaded periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests.	Six monthly Environmental Clearance compliance status report is regularly submitted to MoEF, CPCB and SPCB. The same is sent by email also. Compliance status updated on Company's website. www.adanipower.com		
(xxx)	Criteria pollutant levels including NOx, RSPM, (PM10 & PM2.5), Sox (from Stack & ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of the power plant.	Criteria pollutant viz. NOx, PM10 PM2.5 & SOx (from Stack & Ambient Air) are being continuous monitored and results are displayed at the main gate of the power plant.		

Compliance Status of Environmental Clearance
(Phase- II (3x660) MW THERMAL POWER PLANT)

Letter No.J-13012/81/2008-1A-II (T) DATED 22.04.2010)
& its subsequent Amendment dated 30.03.2012 and dated 13.03.2014

SL. NO.	CONDITIONS	COMPLIANCE
(i)	Only one unit of 1 x 660 MW shall be run on 100% domestic coal for which coal linkage from SECL is available and the other two units of 2 x 660 MW shall be run purely on imported coal, as per details in Para 2.	MoEF vide letter no. J-13012/81/2008-1A-II (T) dated- 13.03.2014 has amended the condition for change of source of coal to indigenous Coal from subsidiary companies of "Coal India Limited" in place of Imported coal.
(ii)	Separate stacking arrangement shall be made for indigenous and imported coal.	EC is amended and the source of coal is domestic. Separate stacking/storage arrangement is not required.
(iii)	In case source of fuel supply is to be changed at a later stage for the 2 x 660 MW the project proponent shall come back to the ministry as the appraisal presently was done based on imported coal for 2 x 660 MW unit.	APML requested the MoEF&CC for Change of source of coal to indigenous Coal from subsidiary companies of "Coal India Limited" in place of imported coal. The EAC of MoEF&CC considered our proposal on October 10, 2013 & January 9-10, 2014 respectively and subsequently the Environmental Clearance condition amended for change of coal source from imported to domestic/indigenous on 13/03/2014.
A	Water & Waste Water Management	
(iv)	No ground water shall be extracted for use in operation of the power plant even in lean season	Being Complied. We have already obtained permission from water resource department Govt. of Maharashtra for withdrawal of 70 MCM water for both phases from Wainganga river. The above quantity is adequate to meet the plant's requirement including lean season.
(v)	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	Noted. There is no water body within the plant site.
(vi)	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel / Rivers (as applicable) even in lean season.	Water allocation is from Dhapewada Irrigation Project constructed and maintained by Vidarbha Irrigation Development Corporation. APML has no role in regulating the water flow downstream.
(vii)	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quality and quantity is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken	NEERI (CSIR), Nagpur has been engaged for carrying out Hydro-geological study & review from 2019 – 2022. The 1 st year interim report submitted to your good office along with Six Monthly compliance report for the period of April to Sept' 2019. Quality of ground water is being monitored in and around the plant premises. Ground water level in nearby villages is also being monitored to know the seasonal fluctuations.
(viii)	Closed cycle cooling system with induced draft cooling towers shall be provided and COC of at least 5.5 shall be adopted.	5.5 COC is being maintained.

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(ix)	The treated effluent conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluent and storm water do not get mixed.	Effluent treatment plant installed within the plant and treated water is being utilize/reuse within the premises to meet "Zero Discharge". Separate drainage system established for storm water.
(x)	Effluent from the desalination plant shall be first treated in a guard pond before discharged, if applicable.	Not Applicable The desalination plant is not required
(xi)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	Sewage Treatment Plants have been installed and treated water is being suitably reused within the plant premises for green belt development.
(xii)	Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Rainwater Harvesting study carried out & report submitted to Regional Director, Central Ground Water Board, Nagpur & Member Secretary, Central Ground Water Board, New Delhi. Rain water harvesting practices adopted within the plant area.
(xiii)	Regular monitoring of ground water shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of the Ministry. The data so obtained should be compared with the baseline data 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 regularly in and around the project area. Piezometric wells are established around the ash pond area. Records are maintained and the same are submitted to Regional office of the Ministry at Bhopal. Please Refer Annexure - I.
B	Air Pollution Control	
(xiv)	Provision for installation of FGD shall be provided.	Space & provision available for FGD installation. APML is under process to install FDG as per the direction and guidance of CPCB & CEA
(xv)	High Efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg / Nm ³ .	ESP with efficiency of 99.93% (ESPs of 10 fields) installed for each boiler to meet permissible norm for particulate emission of less than 50 mg / Nm ³ . Please refer Annexure - III.
(xvi)	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.	Adequate air pollution control measures such as dust extraction system (Cyclone followed by bag filters) in coal crushers and rain gun type dust suppression system in coal yard and dry fog type dust suppression system in the belt conveyor with insertable dust collector at transfer points have been installed to meet particulate matter emission within the norms.
(xvii)	Green Belt consisting of 3 tiers plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width Shall be raised and adequate justification shall be submitted to the ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 70%.	Green belt development/ plantations are being carried out on available land. Our efforts are being made to develop more greenery in and around plant premises. We have already established our nursery to develop saplings for afforestation & horticultural activities. Besides this, we have also developed lawn & gardens to create aesthetic view inside the plant premises APML have developed green belt/plantation in

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		258 ha land which is more than 33%. Please refer Annexure - VI.
(xviii)	Noise level emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressor etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.	Necessary actions has been taken care to maintain ambient noise levels within 75 db(A) during plant operation. The working personals provided with appropriate personal protective equipment and periodic audiometric check-up is being carried out and records are being maintained. The monitoring reports regularly submitted to the MPCB & MoEF. Please refer Annexure - I & IA
C	Fly Ash Management	
(xix)	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Annual ash generation and utilization status is regularly submitted to MoEF&CC, MPCB & CEA. Six Monthly Ash Generation & Utilization details from April'20 to Sept'20 enclosed as Annexure - IV.
(xx)	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. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Compliance assured. We have established 06 Nos. silos of 1700 ton capacity each for utilization of dry ash. Regular monitoring of heavy metals is being carried out.
(xxi)	Ash pond shall be lined with HDP/LDP 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.	Compliance assured. Well-designed Ash dyke with HDPE lining have been established as per guidelines of MoEF, CEA and CPCB. Regular monitoring is being carried out.
(xxii)	For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) it shall be ensured that the Bottom and sides of the mined out area are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	Noted. We will inform to Maharashtra Pollution Control Board well in advance.
(xxiii)	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 data 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 project area. Piezometric wells are established around the ash pond. Records are maintained and the same being submitted along with compliance report. Please refer Annexure - I. APML has engaged CSIR – NEERI, Nagpur to carry out Fly Ash Leachability Study in Radius of 35 KM for APML, Tiroda from 2019 – 2022. The 1 st year interim report submitted to your good office along with Six Monthly EC compliance report for

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		the period of April' 2019 to Sept' 2019.
D	Disaster Management	
(xxiv)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to Ministry as well as to the regional Office of the Ministry.	Adequate safety team with safety control measures is available in the plant site to take preventive control measures. Fire hydrant and rain gun type water sprinklers established in the coal yard. Details of control measures and location within the plant layout has been already submitted to your good office.
(xxv)	Storage facilities for auxiliary liquid fuel such as LDO and / HFO/LSHS shall be made in the plant area in consultation with Department of Explosive, 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 is properly stored in minimum risk area & as per the norms fixed by the Chief Controller of Explosive. Disaster management plan and On-site emergency plan prepared & Mock drills are being conducted periodically.
E	CSR/RCR Plan	
(xxvi)	A good action plan for R & R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months from the date of the issue of this letter.	R&R plan approved by the State govt. and implemented. APML had engaged Indian Institute of Social Welfare & Business Management (IISWBM), Kolkata for carrying out R&R audit for APML, Tiroda.
(xxvii)	An amount of Rs. 66.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 13.20 Crore per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	A separate budget earmarked for CSR activities. Need Base Assessment study carried out and report already submitted to the ministry. We have established well qualified team with village mobilizers to take care of CSR activities. Six Monthly CSR Progress Report with expenditure for period of April'2020 to September'2020 is enclosed as Annexure – VII .
(xxviii)	While identifying CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruits bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs. In addition a special scheme for upliftment of SC/ST's and marginalized population in the study area out of CSR programme shall be formulated and submitted to the Ministry within six months along with firm	Need Base Assessment Study for development of CSR plan prepared and report already submitted to MoEFCC. Need based plan implementation being done in nearby village for the individuals who are economically weak to undertake some economic activity that would help them to achieve sustainable livelihood and financial independence. We have established a Skill Development Center for skill development of SC/ST and marginalized populations from Gondia and Bhandara district. APML have trained 749 students in which 626 trainee obtained good job offers. It also includes nurse training (General Duty Assistance) of 105 and out of this 88 placed for good job. Year wise training and placement details are annexed as Annexure XI

Adani Power Maharashtra Limited

	commitment of implementation. The scheme shall have an in - built monitoring mechanism.	
F	General	
(xxix)	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied Natural drainage has not disturbed due to plant activities.
(xxx)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied. First Aid and sanitation facilities were provided for the drivers and contract workers during construction period.
(xxxii)	Provision shall be made for the housing of construction labour 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 structures to be removed after the completion of the project.	Labour hutments have been established with all required facilities & infrastructure for construction phase only.
(xxxiii)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. Copy of the same already submitted to your good office with compliance report.
(xxxiv)	A copy of clearance letter shall be sent by the proponent to concern panchayat, Zila parishad/municipal corporation, urban local body and the local NG, 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 Environmental Clearance and other required documents provided to Zila Parishad & Gram Panchayat.
(xxxv)	A separate environment management cell with qualified staff shall be setup for implementation of the stipulated safeguards.	APML has established Environment Management Dept. which is headed by AGM & supported by Env. Engineer, Chemist & Horticulturist. Environmental laboratory has been established to monitor Environmental Quality Parameters for Ambient Air, Water, Stack emission monitoring etc. Environmental Management System as per EMS ISO 14001:2015 implemented under Integrated Management System. Our Environmental lab is Accredited with NABL as per ISO/IEC 17025:2017 which is valid up to 27.06.2021 The desktop surveillance audit has been

Adani Power Maharashtra Limited

		successfully completed and the accreditation is being continue for the laboratory. Please refer Annexure – X
(xxxv)	The proponent shall upload the status of compliance of stipulated EC conditions, including the results of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF, the respective zone of CPCB & the SPCB. The criteria pollutant level namely; SPM, RSPM (PM10, PM2.5), SO2 and NOx (ambient level and stack emission) shall be displayed at the convenient location near the main gate of the company in the public domain.	Six monthly Environmental Clearance compliance status report is regularly submitted to MoEF&CC, CPCB and SPCB. The same is sent by email also. Compliance status updated on Company's website. Display board already installed in main gate.
(xxxvi)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB	Six monthly compliance report is regularly submitted to MoEF, CPCB & MPCB. The same is sent by email also. Compliance report for the period of October '19 to March '2020 has been submitted to MoEF&CC/MPCB/CPCB vide our letter no. APML/EMD/MoEF/EC/235/05/20 on 28.05.2020
(xxxvii)	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail	Environment Statement for F.Y 19- 20 submitted with online portal of Maharashtra Pollution Control Board. Copy enclosed as Annexure – VIII.
(xxxviii)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Six monthly Environmental Clearance compliance status report is regularly submitted to MoEF, CPCB and SPCB. The same is sent by email also. Compliance status updated on Company's website. www.adanipower.com
(xxxix)	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted	Being Complied. Six monthly Environmental Clearance compliance status report is regularly submitted to MoEF&CC, CPCB and SPCB. The same is sent by email also. Compliance status updated on Company's website. Display board already installed in main gate.

Adani Power Maharashtra Limited

	from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.																												
(xi)	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	<p>Separate fund has already been allocated and being utilize for Environmental Protection measures.</p> <p>Expenditure details in F.Y 19 - 20 (in Lakhs):</p> <table border="1"> <thead> <tr> <th>SL. No</th> <th>Particulars</th> <th>Cost (in Lac.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pollution control equipment O &M</td> <td>2397.33</td> </tr> <tr> <td>2</td> <td>Pollution Monitoring ,Study and analysis</td> <td>96.81</td> </tr> <tr> <td>3</td> <td>Green belt Development</td> <td>303.82</td> </tr> <tr> <td>4</td> <td>Rural Development/CSR</td> <td>406.09</td> </tr> <tr> <td>5</td> <td>Legal & consent fees</td> <td>381.89</td> </tr> <tr> <td>6</td> <td>Training & Awareness</td> <td>1.77</td> </tr> <tr> <td>7</td> <td>Waste Management</td> <td>3495.69</td> </tr> <tr> <td align="center" colspan="2">Total</td> <td>7083.41</td> </tr> </tbody> </table>	SL. No	Particulars	Cost (in Lac.)	1	Pollution control equipment O &M	2397.33	2	Pollution Monitoring ,Study and analysis	96.81	3	Green belt Development	303.82	4	Rural Development/CSR	406.09	5	Legal & consent fees	381.89	6	Training & Awareness	1.77	7	Waste Management	3495.69	Total		7083.41
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(xii)	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.																											
(xiii)	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.	Noted. Full cooperation always extended.																											
Additional Conditions (EC Amendment)																													
(xiv)	The coal transportation by road shall be through tarpaulin covered trucks for a maximum period of two years and hence forth shall be only through mechanically covered trucks.	Compliance Assured. At present, coal is being transported by rail through wagons and unloaded within our plant premises at wagon tippler & Track Hoppers.																											
(xv)	Avenue plantation of 2/3 rows all along the road shall be carried out by the project proponent at its own expense.	Layer wise thick Plantation done in all around the boundary.																											
(xvi)	Periodic maintenance of the road shall be done by the project proponent at its own expense and shall also facilitate the traffic control on the road.	Complied. All internal roads are black topped or concreted and being maintained																											
(xvii)	Sulphur and ash contents in the domestic coal to be used in the project shall not	Being complied. We are using washed coal from SECL and blended																											

Adani Power Maharashtra Limited

	exceed 0.4 % and 33% at any given time. In case of variation of coal quantity at any point of time, fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	with raw coal. We have also installed Real time Coal Ash Analyzers to monitor ash content. MPCB official also collect coal samples time to time and analysis results are well within the stipulated limit. Quarterly Ash content report is being sent to MoEFCC regional office, Six monthly Average ash content is 32.89%
(xlvii)	A long term study of radio activity and heavy metals content 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. Monitoring reports is already submitted along with compliance report.
(xviii)	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.	10KW solar panel installed at the top of administrative building to cater domestic power requirement of administrative building. In addition to above, solar street lights are installed along the ash dyke area. Under CSR activities, we have installed more than 200 solar street lights in nearby villages.
(xix)	Mercury emission from the stack shall also be monitored on periodic basis.	Being complied. Mercury emission from the stack is being monitored & reports are being submitted. Please refer Annexure – I .
(i)	Fugitive emission shall be controlled to prevent impact on agricultural or non-agricultural land.	Being Complied. To control fugitive emission, rain gun type water sprinkling system has been installed in coal yard. All coal conveying belts conveyors are covered and fog type dust suppression system provided. Adequate water sprinkling arrangements made in wagon trippers and track hoopers to mitigate dust emission during coal un-loading by rail. Closed coal conveyor belts have been established. Cyclones followed by bag filters are provided at each coal transfer points (JNT's). Additionally, mobile water sprinklers are deployed at CHP area to suppress fugitive dust while movement of vehicles.
(ii)	Source sustainability study of water requirement shall be carried out by an institute of repute. The study shall also specify the source of water for meeting the requirement during lean season. The report shall be submitted to the Regional Office of the Ministry within six months.	VIDC has developed and is operating Dhapewada Barrage on River Wainganga for water supply. However, we have undergone source sustainability study of River Wainganga through "Academy of Water Technology and Environ Management" Kolkata in Technical collaboration with Indian Institute of Social Welfare and Business Management- Kolkata and CSIR-CGCRI - Kolkata. Final Report was already submitted along with compliance report.
(iii)	Fly ash shall not be used for agricultural 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	As per Fly ash Notification 25 th January, 2016; Ash may be utilize in Agriculture as a promotional activity. For the same APML has engaged AMPRI (A division of CSIR) Bhopal & NEERI, Nagpur to explore the possibility of Ash utilization in

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	take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	different purpose to comply Fly Ash Notification. CSIR – NEERI Nagpur was engaged for 03 years (2019 – 2022) to carry out Fly Ash Leachability Study in an around land reclamation through fly ash of a radius of 35 KM from APML. The 1 st year inception report already submitted with EC Compliance report of October 2019 to March 2020
(liv)	Three tire green belt shall be developed all around Ash Pond over and above the Green Belt around the Plant Boundary.	Three tire plantation at Ash pond area is in progress. Plantation is also being done in the available open area along the plant boundary.
(lv)	Social audit for the CSR Scheme shall be carried out periodically by reputed university or an institution as per the CSR guidelines of Government of India and Details to be submitted to MoEF besides putting it on company's website.	Social audit for the CSR Scheme has been carried out by Indian Institute of Social Welfare & Business Management, University of Kolkata . The same has already been submitted to your good office with Oct'14 to Mar'15 compliance report. Further, Social Audit being carried out Indian Institute of Social Welfare & Business Management, University of Kolkata . Final Report is already submitted to your good office with compliance report April 2019 to Sept 2019.
(lvi)	An Environmental Cell shall 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 ensured that the head of the Cell shall directly report to 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.	We have already established Environment Management Dept. headed by AGM & supported by Env. Engineer, Chemist & Horticulturist. Environmental laboratory (NABL Accredited) has been established to monitor Environmental Quality Parameters for Ambient Air, Water, Stack emission monitoring etc. Environmental Management System as per EMS ISO 14001:2015 implemented under Integrated Management System. Our Environmental Lab has also has been accredited with NABL.
(lvii)	Monitoring of surface water quantity and quality shall also be regularly conducted and record maintained. The monitoring 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.	Monitoring of surface water and ground water quality including heavy metals is being done on regular basis and records maintained. Please refer Annexure - I
(lviii)	The environmental statement for each financial year ending 31 st March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliances of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Environmental statement is being submitted regularly to MPCB. Last Environmental Statement submitted to MPCB through online portal.
(lix)	The project proponent shall formulate a well	We have implemented ISO 14001:2015 under

Adani Power Maharashtra Limited

	<p>laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy stipulated in this clearance letter and other applicable environment laws and regulations.</p>	<p>Integrated Management System consist of Environment, Health & Safety, Quality and Energy Management Systems. We have formulated a Corporate policy as per the requirement of Integrated Management System (IMS), Biodiversity Conservation Policy has already been framed and incorporated in existing IMS policy. We APML are also a part of Indian Biodiversity Business Initiative (IBBI) as initiated by MoEF&CC. Integration of International Finance Corporation (IFC) Performance Standard with IMS is under progress.</p>
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SIX MONTHLY ENVIRONMENTAL MONITORING REPORT

FOR
The Period of Apr.2020-Sept. 2020

of

ADANI POWER MAHARASHTRA LTD.
Tirora, Growth Center,
MIDC, Gondia – 441 911

Prepared by



Recognised by MoEF (GOI). F. No. Q-15018/19/2019-CPW dated. 9.6.2020
NABET Accredited and ISO 9001: 2000 Certified Organisation

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Foreword

The protection of environment plays a crucial role in maintaining the local environment quality for any industry, throughout their production. Hence compliance of the statutory requirements becomes very important to conserve the ecological balance within and surrounding the plant area. Therefore, environment protection is becoming a prerequisite for sustainable development. In line with this requirement, the management of Adani Power Maharashtra Ltd. has adopted a corporate responsibility of development and top priority is given for environment protection.

In order to comply with the Environment protection act, to fulfill statutory requirement and to be in tune with Environmental Preservation and sustainable development Adani Power Maharashtra Ltd., has retained Enviro Analysts and Engineers Pvt. Ltd. as Environment Consultants and for various Environmental issues related to their Power Plant.

This report presents the Environmental Status for the period Apr.2020-Sept. 2020 as a compliance to the statutory requirements.

The co-operation extended by the Staff and Management of Adani Power Maharashtra Ltd. during the work execution period is gratefully acknowledged.

For **ENVIRO ANALYSTS & ENGINEERS PVT. LTD.**

Authorized Signatory

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1.0 INTRODUCTION.

M/s. Adani Power Maharashtra Limited (APML) a wholly owned company of Adani Power Limited has established 3300 MW (5x660) Coal-based Thermal Power Plant at Tiroda, District Gondia in Maharashtra in two phases as below:

Phase I: 2 x 660 MW

Phase II: 3 x 660 MW

1.1 Scope of Work.

The scope of work includes the data generation for various environmental components viz Meteorology, Air, Noise, Water, Stack, Effluent and soil of Adani Power Maharashtra limited, Tirora.

To monitor the environmental parameters and data analysis in the vicinity of the power plant of 5x660MW at MIDC Area Tiroda, APML awarded the service to M/s Enviro Analysts & Engineers Pvt. Ltd. (EAEPL), Mumbai.

The present report incorporates data of various Environmental parameters for APR.2020- SEPT. 2020

Chapter – 2

Details of sampling Locations

&

Methodology for sampling and analytical procedures

2.0 DETAILS OF SAMPLING LOCATIONS.

The details of sampling location w. r. t. Air, Water and Noise quality around the power plant are shown in the Sampling location Map as depicted in Figure.2.1

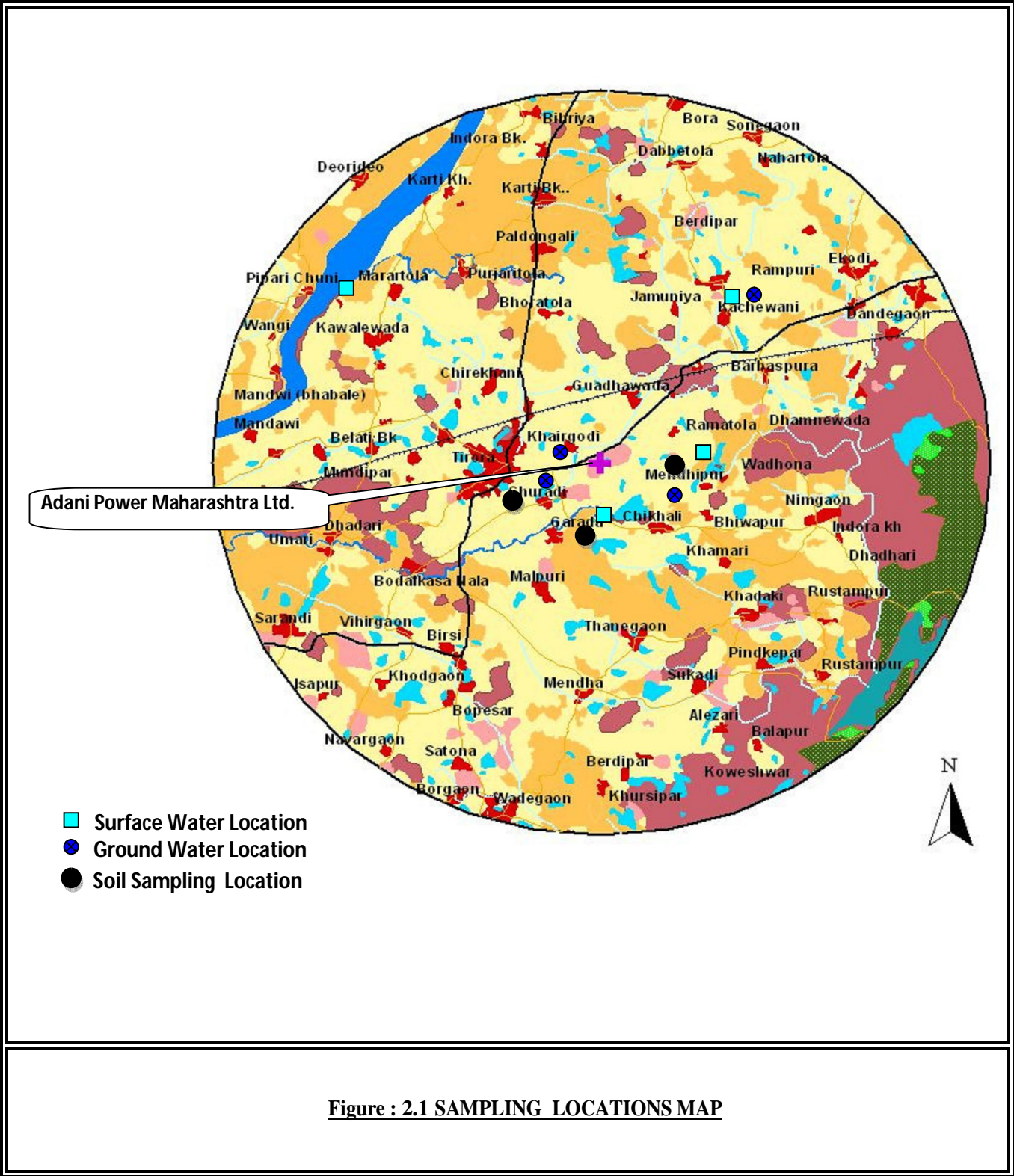
2.1 Meteorology and Ambient Air Quality.

Meteorological data was collected at one station concurrently with the ambient air quality monitoring. The weather station was placed on the roof top at a height of 10m. Wind speed, wind direction, relative humidity and temperature & Rainfall were recorded at hourly intervals continuously.

The sampling locations of Ambient Air Quality in the Power plant premises covering upwind and down wind direction . To assess the effect of industrial activity of power plant on the air, environmental parameters like Particulate Matter-PM₁₀, Particulate Matter-PM_{2.5}, Sulphur Dioxide-SO₂, Nitrogen Dioxide –NO₂ were monitored Details of the sampling locations with respect to the plant site are given below in **Table-2.1** .

Table 2.1 Ambient Air Quality Monitoring Location

Code	Name of the monitoring Station	Distance from plant boundry (km)	Direction with respect to plant	Environmental Setting	Remarks
A1	Near AWRS	Within Plant	-	Within Plant	Industrial area
A2	Near Brick Plant	Within Plant	-	Within Plant	Industrial area
A3	Near China colony	Within Plant	-	Within Plant	Industrial area



2.2 Water Quality

Water samples were collected at various locations within the area of 10 Km radius from the plant to assess the Physico-Chemical quality of Surface and Ground Quality water. Samples were collected as per the standard procedures. On site Parameters like Temperature, Electrical Conductivity, pH and Dissolved Oxygen were analyzed at-site using portable water analysis kit. Samples were collected by taking suitable precautions for preparation and transportation, particularly using sterilized bottles for bacteriological analysis. The details of the sampling locations are given in **Table-2.2** and **Figure.2.1** as depicted.

Water samples were collected on quarterly basis from 8 locations (Ground water 4, Surface water-4). Analytical methods mentioned in IS: 3025 and Standard Methods published by APHA were followed.

Adani Power Maharashtra Limited
Six Monthly Environmental Monitoring Reports

TABLE-2.2 WATER SAMPLING LOCATIONS

Surface Water				
Code	Name of the monitoring Station	Distance from plant boundry (km)	Direction respect to plant	Source
SW1	Wainganga River Water	7.0	NW	River
SW2	Mendipur Pond Water	2.0	SE	Pond
SW3	Garada Village Nalah water	3.0	SSW	Nalah water
SW4	Kachewani Pond water	3.0	NE	Pond water
Ground Water				
GW1	Kachewani Hand Pump	3.2	NE	Bore well
GW2	Mendipur Hand Pump	2.5	SE	Bore well
GW3	Garada Hand Pump	3.2	SW	Bore well
GW4	Chikhali Hand Pump	2.0	S	Bore well
Waste Water				
WW1	Cooling Tower Blow Down water Unit-1			In Plant
WW2	Cooling Tower Blow Down water Unit-2			In Plant
WW3	Cooling Tower Blow Down water Unit-3			In Plant
WW4	Cooling Tower Blow Down water Unit-4			In Plant
WW5	Cooling Tower Blow Down water Unit-5			In Plant
WW6	Boiler Blow down Water Unit-2			In Plant
Piezometric Well water				
P1	Near AWRPH			In Plant
P2	B/H Ash dyke -1			In Plant
P3	Near Raw Water pump house -02			In Plant

2.3 Noise Level:

Noise level at following in plant location and Buffer zone location were recorded by APMML for the period of APR.2020- SEPT. 2020. Location details are given in **Table-2.3.** and as depicted in **Figure.2.1**

TABLE: 2.3 NOISE LEVEL LOCATIONS FOR THE PERIOD OF Apr.2020- Sept.2020

Code	Location	Location type	Remarks
NL- 1	Inside the plant	Near Shanti Niketan I, II & III	Industrial
NL- 2		Near Labour Hutment	Industrial
NL- 3		Near Store Area	Industrial
NL- 4		Gate No.1	Industrial
NL- 5		Gate No.2	Industrial
NL- 6		Gate No.3	Industrial
NL-7		Near OHC	Industrial
NL-8		Railway Siding	Industrial
NL-9		Near Reservoir 2	Industrial
NL-10		Near Ash Water Recovery Pump House	Industrial
NL-11		In China Colony	Industrial

2.4 Soil Quality:

Soil Samples collected at 3 location around the plant zone on the seasonal basis for the period of Apr.2020-Sept. 2020 Location details are given in **Table-2.4.** and as depicted in **Figure.2.1**

TABLE: 2.4 SOIL SAMPLING LOCATIONS FOR THE PERIOD OF Apr.2020-Sept-2020

Code	Location	Location type	Remarks
S1	Buffer Zone	Garada Village	Agricultural Field
S2		Mendipur Village	Agricultural Field
S3		Churadi Village	Agricultural Field

2.5 Methodology of Monitoring

2.5.1 Instruments Used

Samples were collected at 'Ambient Air' monitoring locations' using standard *Fine dust sampler* & RDS sampler for monitoring PM₁₀, PM_{2.5}, SO₂, NO₂, concentrations and analyzed as per *USEPA / IS* methods in APMML Laboratories at site

Also Continuous Ambient Air Monitoring station installed (CAAQMS) at APML make Tyledyne and Met One instrument approved by USEPA.

On site Micro-meteorological data for wind direction, wind Speed, Temp, Relative humidity and Rainfall collected from APML.

Ground water, Surface water & Effluent water were analyzed for onsite parameters like Temperature, Electrical Conductivity, pH and Dissolved Oxygen were analyzed on-site using portable water analysis kit. Samples are collected, preserved and sent for further analysis to Enviro Analysts & Engineers Pvt. Ltd, where other parameters like total hardness, chlorides, sulphate etc and heavy metals are analyzed as per requirements IS 3025/APHA methods.

Soil samples were analyzed for physical, chemical and heavy metal concentrations, using analytical methods.

Noise was measured at site locations using a noise level meter to determine sound levels in a scale as dB (A) This is suitable for audible range of 20 to 20,000 Hz for human being. Sound level monitoring done by APML.

Stack Monitoring kit having sensor probe was used to monitor stack data like Flue gas velocity, Volumetric flow of flue gas, Temperature of flue gas, Moisture content and other parameters like SPM, SO₂, NO₂ make by ECOTECH

2.5.2 Method of Analysis

Air samples were analyzed as per standard methods specified by Central Pollution Control Board (CPCB), EPA & IS method.

2.5.2.1 Meteorology

Micro-meteorological data was observed for wind direction and speed using wind vane and anemometer using an automatic met logger. The data was recorded at 1 hour interval. Wind speed & wind direction, Temperature, Rain fall, Relative humidity were recorded by Weather Monitoring Station by APML.

2.5.2.2 Ambient Air Quality (AAQ)

Sampling was carried out at each station during the stipulated study period using pre-calibrated Respirable Dust Samplers and Fine Dust Sampler in each of the stations by APML.

Earmarked samples were collected for Particulate Matter-PM₁₀, Particulate Matter-PM_{2.5}, SO₂ and NO₂ for 24 hourly.

The baseline data of air environment is generated for the parameters namely: Particulate Matter-PM₁₀, Particulate Matter-PM_{2.5}, Sulphur Dioxide SO₂, and Nitrogen Dioxide NO₂ in APML

2.5.2.3 Stack Monitoring

Stack emission were analyzed with the help of stack Kit (ECOTECH Stack Kit & Prob set, quarterly basis at Boiler Stack situated in plant. Height of the Boiler Stack was noted as, 275 m and I.D. 7.4m. Flue gas, Velocity, Temperature, Volume & Qty, Moisture Content, PM, SO₂, NO₂, Hg were analyzed. The values obtained were then compared vis-a-vis with the standards prescribed by CPCB.

Iso-kinetic stack monitoring was conducted as per standard method IS 11255 (Part-3) specified in Emission Regulation Act Part to determine PM, SO₂ and NO₂, Data was collected and analysis was done for other parameters like Flue gas Velocity, Temperature, Volumetric flow rate, Moisture contents.

2.5.2.4 Water/Waste Water Quality

Water/Waste water samples were collected for physico-chemical and bacteriological parameters taking suitable Precautions. Temperature, pH, Dissolved Oxygen and Electrical conductivity were measured in the field while collecting the samples. Sterilized bottles were used to collect samples for bacteriological analysis, stored in ice and transported to the Laboratory.

Ground and surface water samples were analysed as per IS: 10500 and Waste Water samples were analysed as per IS: 3025. The analytical methods mentioned in IS: 3025 and Standard Methods published by APHA were followed. MPN Index of coli forms was found as per standard methods (IS: 1622).

2.5.2.5 Noise Level

Noise is defined as unwanted sound that creates interferences in speech, communication, causes annoyance, disturbance in work concentration and sleep, thus deteriorating the quality of Noise environment. In the present study, Noise monitoring has been conducted regularly by APML. Since loudness of sound is the important parameter to assess the effects of particular activities

on human being, hence noise level is measured for noise environment assessment. Hourly Sound Pressure level (SPL) was recorded with Sound Level Meter for 24 hours.

2.6 Analytical Procedures

2.6.1 Meteorology

The data obtained from field is used to ascertain the wind percentage frequencies in the sixteen directions for wind speeds using Beaufort's scale in the range of 0-1.8, 1.8-3.6, 3.6 – 7.2, 7.2 – 14.4, 14.4 – 28.8 and >28.8 kmph. Average wind roses at twenty four hourly are prepared from the data collected. Temperature, Relative Humidity is monitoring by Automatic Weather Monitor (WM 271, Envirotech) and Rain fall by using Rain Gauge of WM 271.

2.6.2 Ambient Air Quality

Whatman GF/A & PTFE filter paper was used in Respirable dust sampler RSPM and FDS and weighed in Mettler electronic balance and computed as per standard methods.

Ambient Air samples were analyzed for SO₂ concentration levels by using Improved West-Gaeke method using spectrophotometer (HACH DR 5000) at a wavelength of 560 nm. NO₂ conc. levels were estimated using Jacob and Hocheiser modified (Na-As) method using spectrophotometer (HACH DR 5000) at a wavelength of 540 nm

Sampling and Analytical Techniques

The techniques used for ambient air quality monitoring and minimum detectable levels are given in **Table-2.5**

TABLE- 2.5 (TECHNIQUES USED FOR AMBIENT AIR QUALITY MONITORING)

Sr. No.	Parameter	Technique	Technical protocol	Minimum detectable limit (µg/m ³)
1	PM10	Respirable Dust Sampler (Gravimetric Method)	IS-5182 (Part-IV)	5.0
2	PM2.5	Fine Respirable Dust Sampler (Gravimetric Method)	IS-5182 (Part-IV)	5.0
3	Sulphur dioxide	Improved West & Gaeke Method	IS-5182 (Part-II)	4.0
4	Nitrogen dioxide	Modified Jacob & Hochheiser Method	IS-5182 (Part-VI)	4.0

Chapter – 3

DATA ANALYSIS

3.0 DATA ANALYSIS

Environmental monitoring for the period of APR.2020- SEPT. 2020 consisted of collection and analysis of meteorological parameters, ambient air quality and ground water and surface water quality at different locations within study area selected for carrying out environmental monitoring around the plant site.

3.1 Meteorology

Meteorological data was collected by APML on hourly basis for wind speed, Wind direction, temperature and relative humidity continuously. Total Rain fall on monthly basis during the period of APR.2020-SEPT. 2020 was measured and recorded and reported in the Environmental report.

Wind Pattern for the period APR.2020- SEPT. 2020.

The data recorded during the study period was analyzed and the daily maximum, minimum and total of all the parameters were observed. The summary of all the meteorological observations is given in **Table-3.1**.

TABLE- 3.1 METEOROLOGICAL DATA MONITORED AT SITE

(for the period of APR.2020- SEPT. 2020)

Month	Temperature (°C)		Relative Humidity (%)		Rainfall (mm)
	Max	Min	Max	Min	(Total)
April 2020	40.1	20.6	75.9	27.9	12.6
May 2020	46.9	23.4	63.8	20.2	11.2
Jun. 2020	38.4	25.3	63.2	22.7	233.6
July 2020	38.5	24.3	97.7	24.4	236.7
Aug. 2020	37.2	22.8	99.8	58.8	557.7
Sept. 2020	38.0	25.3	97.4	51.1	48.9

Temperature

The Temperature for the month of APR.2020- SEPT. 2020 was found to be within range of 20.6°C – 46.9°C.

Relative Humidity

The average relative humidity for the month of APR.2020- SEPT. 2020 was found to be within range of 20.2-99.8%.

Rain Fall

Total Rain fall found the period of APR.2020- SEPT. 2020 was 1100.7mm

Wind Speed/Direction

The wind speed and direction data collected during the period of APR.2020- SEPT. 2020. The wind roses plot using the collected data for APR.2020- SEPT. 2020 is given in **Figure-3.1**

The first predominant wind direction during APR.2020- SEPT. 2020 was WSW. The calm condition ranges from 2.5 to 9.7%.

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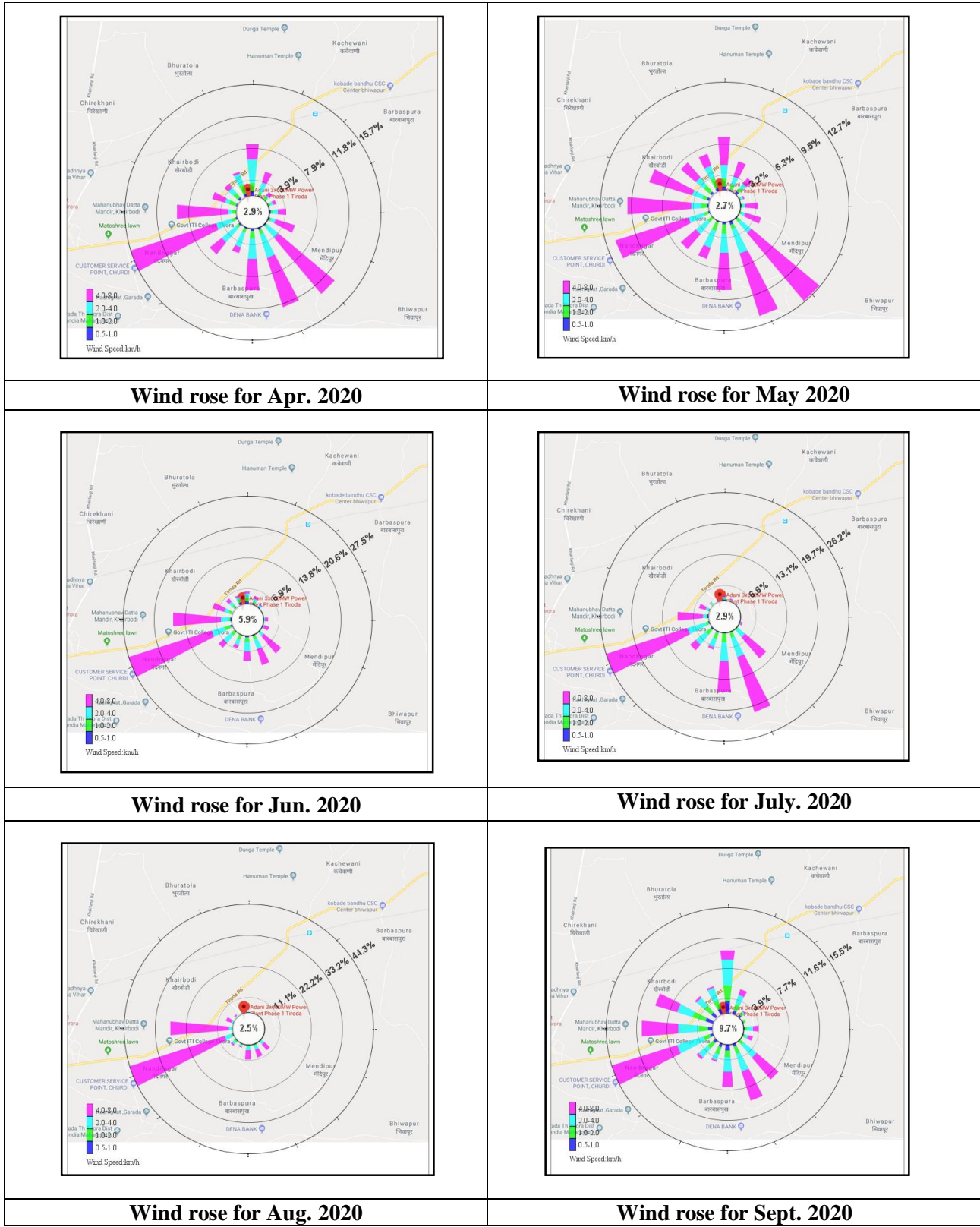


FIGURE-3.1 SITE SPECIFIC WINDROSE FOR APR. 2020- SEPT. 2020

3.2 Ambient Air Quality

Ambient air quality has been carried out within plant for the period of APR.2020- SEPT. 2020. PM₁₀, PM_{2.5}, SO₂ & NO₂, sampling at all the locations is done for 24 hours average twice a week by APMML. The values obtained were then compared vis-a-vis the standards prescribed by CPCB for Industrial/ Rural / Residential uses.

3.2.1 Presentation of Results.

The summary of Ambient Air Quality monitoring results for the period of APR.2020- SEPT. 2020 are presented in detail in **Table 3.2** for Inside plant area. 98th percentile; maximum and minimum values etc have been computed from the collected raw data for all the AAQ monitoring station. The data has been compared with the standards prescribed by Central Pollution Control Board (CPCB)/NAAQ for residential and rural zone.

Particulate Matter-PM10

The minimum and maximum concentrations during APR.2020- SEPT. 2020 in the plant area location for Particulate Matter-PM₁₀ were recorded as 19.4 µg/m³ and 96.8 µg/m³ respectively. The minimum concentration was recorded at Near AWRS (A1) and maximum concentration at Near China colony (A3).

Particulate Matter-PM_{2.5}

The minimum and maximum concentrations in the plant area location for PM_{2.5} were recorded as 10.6µg/m³ and 42.2 µg/m³ respectively. The minimum concentration was recorded at Near AWRS (A1) & Near Brick Plant (A2) and maximum concentration was recorded at Near Chaina Colony (A3).

Sulphur Dioxide (SO₂)

The minimum and maximum SO₂ concentrations in the plant area location were recorded as 5.1 µg/m³ and 15.7 µg/m³ respectively. The minimum concentration was recorded at Near AWRS (A1) & Near Brick Plant (A2) and maximum concentration was recorded at Near Chaina Colony(A3) respectively.

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Nitrogen Dioxide (NO₂)

The minimum and maximum NO₂ concentrations in the plant area location were recorded as 9.6 µg/m³ and 32.5 µg/m³ respectively. The minimum concentration was recorded at Near AWRS (A1) and maximum concentration was recorded at Near Chaina Colony(A3) respectively.

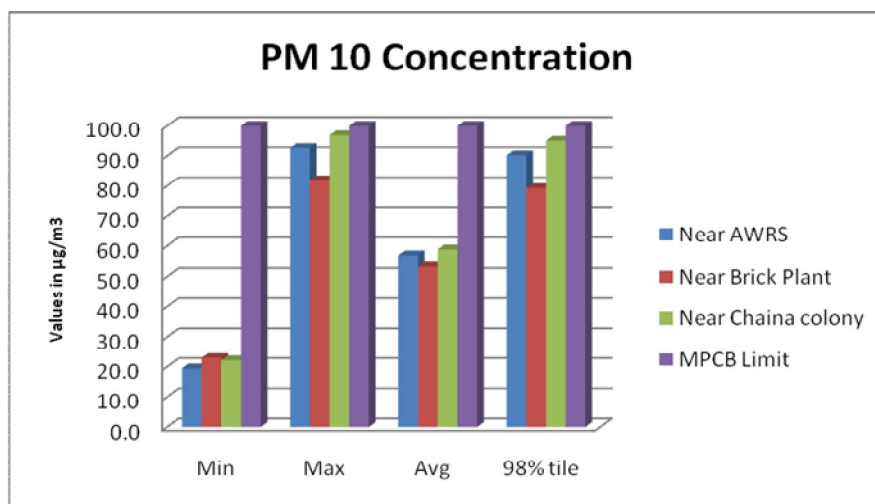
TABLE- 3.2 SUMMARY OF AMBIENT AIR QUALITY RESULT

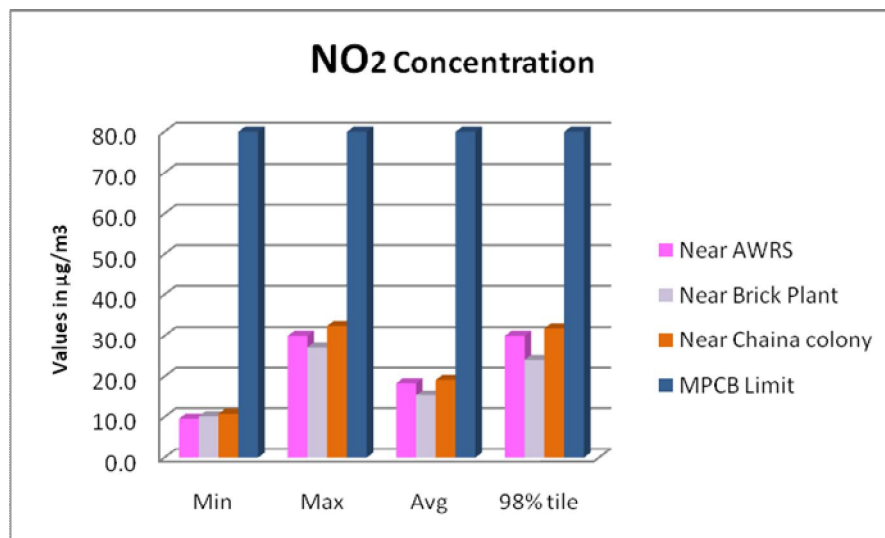
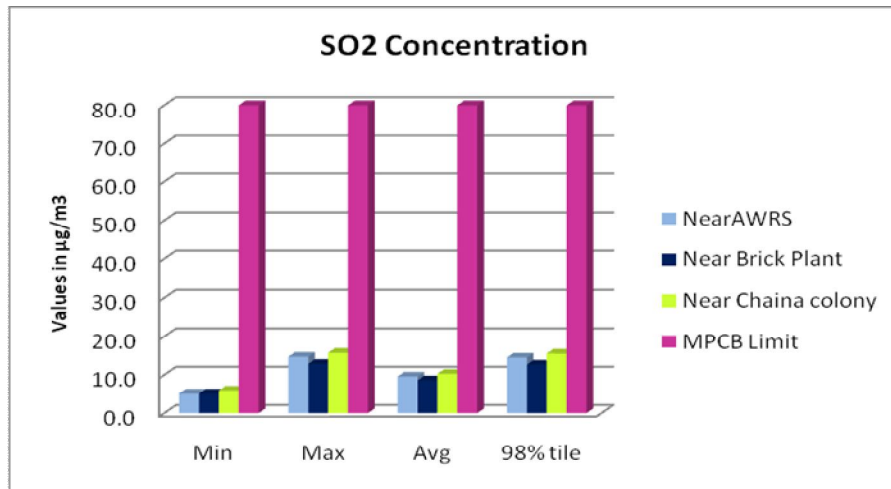
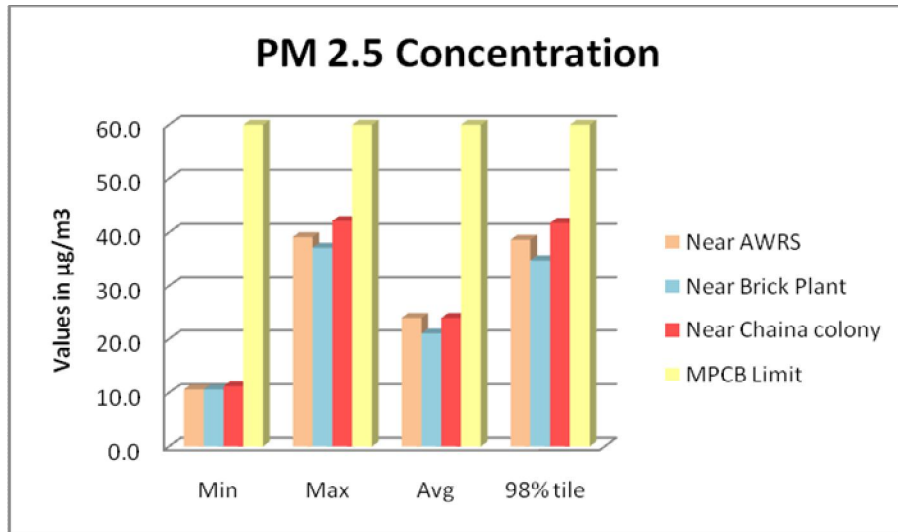
(Inside Plant Premises)

for the period of Apr 2020- Sept. 2020

All values are µg/m³

Location	PM ₁₀				PM _{2.5}				SO ₂				NO ₂			
	Min	Max	Avg	98% tile	Min	Max	Avg	98% tile	Min	Max	Avg.	98% tile	Min	Max	Avg.	98% tile
Near AWRS	19.4	92.6	56.8	90.2	10.6	39.2	24.0	38.7	5.1	14.7	9.6	14.5	9.6	30.1	18.4	30.1
Near Brick Plant	22.9	81.8	53.4	79.3	10.6	37.2	21.0	34.8	5.1	12.9	8.6	12.7	10.2	27.1	15.4	24.1
Near Chaina colony	22.2	96.8	58.8	95.0	11.2	42.2	24.0	41.8	5.9	15.7	10.3	15.5	10.8	32.5	19.2	31.9
MPCB Limit	100				60				80				80			





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3.3 Stack Monitoring.

Stack monitoring is done with the help of stack Kit (ECOTECH Stack Kit) & Prob set, once in a quarter at Boiler Stack 1 to 5 situated in plant. Height of the Boiler Stack was noted as, 275m and I.D. 7.4m. Flue gas, Velocity, Temperature, Volume & Qty, PM, SO₂, NO_x, Hg are analysed. The values obtained are then compared vis-a-vis with the standards prescribed by CPCB.

3.3.1 Presentation of Results.

The Stack analysis results for the period of APR.2020- SEPT. 2020 are presented in detail for various parameters like Flue gas, Velocity, Temperature, Volume & Qty, SPM, SO₂, NO_x, Hg values etc computed from the collected raw data for the Stack monitoring station. The summary of these results is presented below. The data has been compared with the standards prescribed by Central Pollution Control Board (CPCB)/MPCB

TABLE- 3.3 Stack Analysis Report for the period of Apr. 2020 - Sept.-2020

Power Plant (Unit-I to Unit 5)

PARAMETERS	CONCENTRATION									
	Unit I		Unit 2		Unit 3		Unit 4		Unit 5	
Date of Sampling	May2020	Sept. 2020	May2020	Sept. 2020	May2020	Sept. 2020	May2020	Sept. 2020	May2020	Sept. 2020
Diameter of Stack (M)	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
Height of Stack (M)	275	275	275	275	275	275	275	275	275	275
Temp. of exit gas (0 C)	126	122	123	120	127	124	128	121	123	Unit under shutdown
Velocity of exit gas (m/sec)	23.40	22.87	22.95	23.55	23.60	23.80	23.91	23.17	23.10	
Flow of exit gas at stack temp. & Press.(m3/hr)	3621191.18	3539172.75	3551552.89	3644403.95	3652141.54	3683091.89	3700114.58	3585598.28	3574765.65	
Flow of exit gas at NTP(Nm3/hr)	2283205.54	2536556.47	2254360.14	2625269.10	2297602.82	2626406.33	2444865.07	2576352.47	2269094.52	
PM (mg/Nm3)	47.2	42.2	44.3	46.2	48.2	44.8	42.7	43.3	41.7	
Total dust emission (kg/hr)	107.77	107.04	99.87	121.29	110.74	117.66	104.39	111.56	94.62	
SO2 (mg/Nm3)	958.8	971.6	986.2	923.1	945.4	922.3	951.7	944.6	991.2	
SO2 (kg/hr)	2189.14	2464.52	2223.25	2423.38	2172.15	2422.33	2326.78	2433.62	2249.13	
SO2 (TPD)	52.54	59.14	53.36	58.16	52.13	58.13	55.84	58.40	53.98	
NOx (mg/Nm3)	290.5	291.6	290.7	288.2	280.6	260.2	292.2	281.3	288.2	
Mercury (mg/Nm3)	0.0190	0.0193	0.0184	0.0173	0.0204	0.0190	0.0196	0.0176	0.0202	

Note: Values of PM, SO₂ and NO_x based on 6% O₂

3.4 Water Quality

Ground waters were collected at 4 locations and Surface water at 4 locations within the 10 km radial distance of power plant were analyzed as per IS 10500 to assess the quality of water for portability.

Presentation of Results

The results of the water quality monitored in the period of APR.2020- SEPT. 2020, that of four surface water and four ground water samples and seven drinking water samples. The surface water quality results are given in **Table-3.4**, the results of ground water quality is given in **Table-3.5** and the results of Waste water quality are given in **Table-3.6** the findings are discussed below.

3.4.1 Ground Water Quality.

Most of the villages in the Nearby plant area have hand pumps, as most of the residents of these area use of this water for drinking and other domestic uses.

The analysis results indicate that the pH ranges from 7.35 to 8.05 the maximum ph observed at Chikhali village(GW4) and Minimum pH were observed at Garada Village (GW3) which is well within the specified standard of 6.5 to 8.5.

Total hardness was observed to be ranging from 194 to 394 mg/l. The maximum hardness 394 mg/l was recorded at Garada Village (GW3) and the minimum hardness of 194 mg/l was recorded at Mendipur village(GW2). which is well within the specified standard of 200(600) mg/l.

Chlorides were found to be in the range of 21.6 mg/l to 169mg/l, the maximum concentration of chlorides was observed at Kachewani Village (GW1) and the minimum concentration of chlorides was observed at Chikhali Village(GW4)

Sulphates were found to be in the range of 13.2 mg/l to 114.2 mg/l. The maximum value observed at Kachewani Village (GW1) and the minimum value observed at Medipur Village(GW2).

The values of Chlorides and sulphates are acceptable limits.

The analysis results indicate all parameter including bacteriological and heavy metal parameters are well within the drinking water standards.

3.4.2 Surface Water Quality.

The analysis results indicate that the pH values in the range of 7.8 to 8.25 the minimum and maximum value was observed at Medipur Pond and Wainganga River water respectively which is well within the specified standard of 6.5 to 8.5.

TDS was observed in the range of 104 mg/l to 642 mg/l, the maximum TDS value was observed at Garada Nalah where as minimum value was observed in Wainganga River, where as TDS is within Desirable limits.

Chlorides and Sulphates were found to be in the range of 8.7 to 31.4 mg/l and 5.8 to 23.7 mg/l respectively. It is observed that value of chlorides and Sulphates are well within acceptable limits. It is evident from the above values that all the parameters are found to comply with the requirements of IS: 10500 specification of surface water except bacteriological parameters. The surface water quality does not indicate any industrial contamination.

Heavy metals concentrations for metals like Arsenic (As), Mercury (Hg), Lead (Pb), Cadmium (Cd), Chromium (Cr) and Copper (Cu) were found to be within the acceptable limits.

3.4.3 Waste Water Quality

Waste water samples were also collected from Cooling Tower Blowdown of unit 1 to 5, Analytical methods mentioned in IS: 3025 and Standard Methods published by APHA were followed. The summary of waste water quality collected on quarterly basis for the period of Apr. 2020- Sept 2020 are given in **Table-3.6**

3.4.4 Pizo-Metric water

There were 3 Pizo metric monitored for water level and collected water samples were analyzed as per IS: 3025 and Standard Methods published by APHA were followed. The summary of pizo-metric water quality collected on quarterly basis for the period of APR. 2020- SEPT. 2020 are given in **Table-3.7**

3.5 Noise Level:

Noise level was measured by APML in basic units of dB(A) at eleven location inside the plant (industrial Area) during day time and Night time for 24Hrs.

Noise level was found within the acceptable limits during daytime as well as night time for all locations with reference to CPCB standard limits for Industrial area and Residential area.

Noise levels at following locations were recorded for the period of APR. 2020- SEPT. 2020 on monthly basis. The summary of Noise Level is given in **Table-3.8**

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3.6 Soil Quality

Soil samples were collected at 3 locations within the 10 km radial distance of power plant were analyzed as per IS:2720 . The analysis results given in **Table-3.9**.

TABLE- 3.4 SURFACE WATER QUALITY

SW1: Wainganga River Water

Sr. No.	Test Parameters	Unit	As per IS 10500 : 2012	Results	
				May2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	1.5	2.5
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	-	-
4	Turbidity NTU	NTU	1(5)	1.0	1.5
5	Total Dissolved Solid	mg / l	500 (2000)	230	104
6	Electrical Conductivity	µS/cm	-	374	168
7	Total Alkalinity	mg / l	200 (600)	126	62
8	pH Value at 25°C	-	6.5 to 8.5	7.90	8.25
9	Total Hardness (CaCO3)	mg / l	200 (600)	142	52
10	Calcium (as Ca)	mg / l	75 (200)	38.2	18.8
11	Magnesium (as Mg)	mg / l	30 (100)	11.3	1.2
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	< 0.07	< 0.07
14	Manganese as (Mn)	mg / l	0.1(0.3)	< 0.01	< 0.01
15	Chlorides (as Cl)	mg / l	250(1000)	15.1	8.7
16	Sulphate (as SO4)	mg / l	200 (400)	11.6	5.8
17	Nitrates (as NO3)	mg / l	45	2.65	2.20
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.50	0.25
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.30	0.15
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	Nil	Nil
30	Total Coliform	MPN/100 ml	Absent	>16	>16
31	E. Coli	Nos./100 ml	Absent	>16	>16

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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SW2: Mendipur Pond Water

Sr. No.	Test Parameters	Unit	As per IS 10500 : 2012	Results	
				May 2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	2.5	2.0
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	-	-
4	Turbidity NTU	NTU	1(5)	1.5	1.2
5	Total Dissolved Solid	mg / l	500 (2000)	362	110
6	Electrical Conductivity	µS/cm	-	591	180
7	Total Alkalinity	mg / l	200 (600)	174	102
8	pH Value at 25°C	-	6.5 to 8.5	7.8	8.15
9	Total Hardness (CaCO3)	mg / l	200 (600)	158	64
10	Calcium (as Ca)	mg / l	75 (200)	43.2	19.2
11	Magnesium (as Mg)	mg / l	30 (100)	12.1	3.9
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	0.090	0.070
14	Manganese as (Mn)	mg / l	0.1(0.3)	0.011	0.008
15	Chlorides (as Cl)	mg / l	250(1000)	17.3	9.2
16	Sulphate (as SO4)	mg / l	200 (400)	13.0	7.0
17	Nitrates (as NO3)	mg / l	45	3.20	2.40
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.55	0.30
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.31	0.10
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	Nil	Nil
30	Total Coliform	MPN/100 ml	Absent	> 16	> 16
31	E. Coli	Nos./100 ml	Absent	> 16	> 16

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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SW3: Garada Village Nalah water

Sr. No.	Test Parameters	Unit	As per IS 10500 : 2012	Results	
				May2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	2.0	2.0
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	-	-
4	Turbidity NTU	NTU	1(5)	1.5	1.0
5	Total Dissolved Solid	mg / l	500 (2000)	642	252
6	Electrical Conductivity	µS/cm	-	1040	412
7	Total Alkalinity	mg / l	200 (600)	210	146
8	pH Value at 25°C	-	6.5 to 8.5	8.20	8.00
9	Total Hardness (CaCO3)	mg / l	200 (600)	290	148
10	Calcium (as Ca)	mg / l	75 (200)	71.2	38.2
11	Magnesium (as Mg)	mg / l	30 (100)	27.2	12.8
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	0.10	0.075
14	Manganese as (Mn)	mg / l	0.1(0.3)	< 0.01	< 0.01
15	Chlorides (as Cl)	mg / l	250(1000)	31.4	14.1
16	Sulphate (as SO4)	mg / l	200 (400)	23.7	10.6
17	Nitrates (as NO3)	mg / l	45	4.10	2.85
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.60	0.30
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.41	0.26
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	Nil	Nil
30	Total Coliform	MPN/100 ml	Absent	> 16	> 16
31	E. Coli	Nos./100 ml	Absent	> 16	> 16

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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SW4: Kachewani Pond water

Sr. No.	Test Parameters	Unit	As per IS 10500 : 2012	Results	
				May 2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	2.0	2.5
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	-	-
4	Turbidity NTU	NTU	1(5)	1.0	1.5
5	Total Dissolved Solid	mg / l	500 (2000)	310	105
6	Electrical Conductivity	µS/cm	-	504	172
7	Total Alkalinity	mg / l	200 (600)	174	82
8	pH Value at 25°C	-	6.5 to 8.5	8.10	8.15
9	Total Hardness (CaCO3)	mg / l	200 (600)	105	64
10	Calcium (as Ca)	mg / l	75 (200)	30.0	19.8
11	Magnesium (as Mg)	mg / l	30 (100)	7.30	3.5
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	0.090	0.070
14	Manganese as (Mn)	mg / l	0.1(0.3)	< 0.01	< 0.01
15	Chlorides (as Cl)	mg / l	250(1000)	13.1	9.0
16	Sulphate (as SO4)	mg / l	200 (400)	9.8	6.4
17	Nitrates (as NO3)	mg / l	45	3.25	2.30
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.45	0.25
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.24	0.10
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	Nil	Nil
30	Total Coliform	MPN/100 ml	Absent	> 16	> 16
31	E.Coli	Nos./100 ml	Absent	> 16	> 16

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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TABLE- 3.5 GROUND WATER REPORT

Monitoring Date: 28.05.2020

STATIC WATER LEVEL OF OPEN WELL						
Name of village	Plinth Height (m)	Diameter (m)	Water level from G.L. (m)	Shape	Total Depth of well from G.L (m)	Landmark
Mendipur	0.85	1.45	8.70	Round	11.00	Near Vitoba Ahinshak Suryavanshi Residence
Khairbori	1.10	1.83	8.10	Round	10.10	Near Hanuman Temple, Durga Temple
Churadi	1.20	2.60	9.05	Round	11.60	Near Primary School
Kachewani	1.5	4.80	10.70	Round	12.30	Opp. ZP. school

Monitoring Date: 4.09.2020

STATIC WATER LEVEL OF OPEN WELL						
Name of village	Plinth Height (m)	Diameter (m)	Water level from G.L. (m)	Shape	Total Depth of well from G.L (m)	Landmark
Mendipur	0.85	1.45	3.10	Round	11.00	Near Vitoba Ahinshak Suryavanshi Residence
Khairbori	1.10	1.83	2.60	Round	10.10	Near Hanuman Temple, Durga Temple
Churadi	1.20	2.60	3.80	Round	11.60	Near Primary School
Kachewani	1.5	4.80	2.40	Round	12.30	Opp. ZP. school

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GROUND WATER QUALITY

GW1: Kachewani Hand Pump water

Sr. No.	Test Parameters	Unit	As per IS 10500 : 2012	Results	
				May 2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	0.1	0.1
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	NTU	1(5)	0.1	0.1
5	Total Dissolved Solid	mg / l	500 (2000)	855	630
6	Electrical Conductivity	µS/cm	-	1382	1024
7	Total Alkalinity	mg / l	200 (600)	190	180
8	pH Value at 25°C	-	6.5 to 8.5	7.75	7.7
9	Total Hardness (CaCO3)	mg / l	200 (600)	382	284
10	Calcium (as Ca)	mg / l	75 (200)	90.8	76.2
11	Magnesium (as Mg)	mg / l	30 (100)	37.7	22.7
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	0.12	0.08
14	Manganese as (Mn)	mg / l	0.1(0.3)	0.008	0.005
15	Chlorides (as Cl)	mg / l	250(1000)	169	94.3
16	Sulphate (as SO4)	mg / l	200 (400)	114.2	104
17	Nitrates (as NO3)	mg / l	45	2.40	2.35
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.90	0.65
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.76	0.35
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	< 0.1	< 0.1
30	Total Coliform	MPN/100 ml	Absent	Absent	Absent
31	E. Coli	Nos./100 ml	Absent	Absent	Absent

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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GW2: Mendipur Hand Pump water

Sr. No.	Test Parameters	Unit	As per IS 10500 :2012	Results	
				May 2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	0.1	0.1
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	NTU	1(5)	0.1	0.1
5	Total Dissolved Solid	mg / l	500 (2000)	594	330
6	Electrical Conductivity	µS/cm	-	964	538
7	Total Alkalinity	mg / l	200 (600)	192	162
8	pH Value at 25°C	-	6.5 to 8.5	7.70	7.60
9	Total Hardness (CaCO3)	mg / l	200 (600)	248	194
10	Calcium (as Ca)	mg / l	75 (200)	57.8	51.8
11	Magnesium (as Mg)	mg / l	30 (100)	25.1	15.7
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	0.095	0.080
14	Manganese as (Mn)	mg / l	0.1(0.3)	< 0.01	< 0.01
15	Chlorides (as Cl)	mg / l	250(1000)	31.6	25.7
16	Sulphate (as SO4)	mg / l	200 (400)	19.2	13.2
17	Nitrates (as NO3)	mg / l	45	2.40	2.30
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.90	0.65
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.44	0.30
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	< 0.1	< 0.1
30	Total Coliform	MPN/100 ml	Absent	Absent	Absent
31	E.Coli	Nos./100 ml	Absent	Absent	Absent

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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GW3: Garada Hand Pump water

Sr. No.	Test Parameters	Unit	As per IS 10500 : 2012	Results	
				May 2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	0.1	0.1
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	NTU	1(5)	0.1	0.1
5	Total Dissolved Solid	mg / l	500 (2000)	760	512
6	Electrical Conductivity	µS/cm	-	1230	830
7	Total Alkalinity	mg / l	200 (600)	210	170
8	pH Value at 25°C	-	6.5 to 8.5	7.85	7.35
9	Total Hardness (CaCO3)	mg / l	200 (600)	394	290
10	Calcium (as Ca)	mg / l	75 (200)	86.2	76.2
11	Magnesium (as Mg)	mg / l	30 (100)	43.3	24.2
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	0.12	0.09
14	Manganese as (Mn)	mg / l	0.1(0.3)	< 0.01	< 0.01
15	Chlorides (as Cl)	mg / l	250(1000)	126	84.5
16	Sulphate (as SO4)	mg / l	200 (400)	51.3	31.8
17	Nitrates (as NO3)	mg / l	45	2.35	2.30
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.90	0.70
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.46	0.32
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	< 0.1	< 0.1
30	Total Coliform	MPN/100 ml	Absent	Absent	Absent
31	E. Coli	Nos./100 ml	Absent	Absent	Absent

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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GW4: Chikhali Hand Pump water

Sr. No.	Test Parameters	Unit	As per IS 10500 : 2012	Results	
				May 2020	Sept. 2020
1	Apparent Colour	Hazen units	5 (15)	0.1	0.1
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	NTU	1(5)	0.1	0.1
5	Total Dissolved Solid	mg / l	500 (2000)	670	520
6	Electrical Conductivity	µS/cm	-	1094	840
7	Total Alkalinity	mg / l	200 (600)	210	194
8	pH Value at 25oC	-	6.5 to 8.5	8.05	7.85
9	Total Hardness (CaCO3)	mg / l	200 (600)	314	208
10	Calcium (as Ca)	mg / l	75 (200)	76.2	63.8
11	Magnesium (as Mg)	mg / l	30 (100)	30.0	11.8
12	Copper as(Cu)	mg / l	0.05(1.5)	< 0.01	< 0.01
13	Iron (as Fe)	mg / l	0.3	0.15	0.10
14	Manganese as (Mn)	mg / l	0.1(0.3)	< 0.01	< 0.01
15	Chlorides (as Cl)	mg / l	250(1000)	35.5	21.6
16	Sulphate (as SO4)	mg / l	200 (400)	21.4	15.0
17	Nitrates (as NO3)	mg / l	45	2.30	2.25
18	Fluoride (as F)	mg / l	1.0 (1.5)	0.90	0.70
19	Phenolic Compounds	mg / l	0.001	BDL	BDL
20	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005
21	Cadmium as (Cd)	mg / l	0.003	< 0.001	< 0.001
22	Selenium as (Se)	mg / l	0.01	< 0.001	< 0.001
23	Arsenic as (As)	mg / l	0.01 (0.05)	< 0.01	< 0.01
24	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005
25	Lead as (Pb)	mg / l	0.01	< 0.001	< 0.001
26	Zinc as (Zn)	mg / l	5 (15)	0.41	0.23
27	Total Chromium as (Cr)	mg / l	0.05	< 0.03	< 0.03
28	Mineral Oil	mg / l	0.05	< 0.01	< 0.01
29	Free Residual Chlorine	mg / l	0.2 (1.0)	< 0.1	< 0.1
30	Total Coliform	MPN/100 ml	Absent	Absent	Absent
31	E. Coli	Nos./100 ml	Absent	Absent	Absent

Note : Standards limit given as Acceptable Limit (Permissible Limit)

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TABLE- 3.6 WASTE WATER QUALITY (May2020- Sept. 2020)

Sample Category : Unit-1- Cooling Tower Blow Down water (WW-1)

Sr. No.	Parameters	Unit	MPCB Limit	Results	
				May2020	Sept. 2020
1.	Free Available Chlorine	mg / l	0.5	0.17	0.15
2.	Zinc as (Zn)	mg / l	1.0	0.14	0.16
3.	Total Chromium as (Cr)	mg / l	0.2	0.010	0.011
4.	Phosphate as (PO4)	mg/l	5.0	1.32	1.38

Sample Category : Unit-2- Cooling Tower Blow Down water (WW-2)

Sr. No.	Parameters	Unit	MPCB Limit	Results	
				May2020	Sept. 2020
1.	Free Available Chlorine	mg / l	0.5	0.15	0.20
2.	Zinc as (Zn)	mg / l	1.0	0.20	0.18
3.	Total Chromium as (Cr)	mg / l	0.2	0.014	0.013
4.	Phosphate as (PO4)	mg/l	5.0	1.37	1.35

Sample Category : Unit-3- Cooling Tower Blow Down water (WW-3)

Sr. No.	Parameters	Unit	MPCB Limit	Results	
				May2020	Sept. 2020
1.	Free Available Chlorine	mg / l	0.5	0.20	0.17
2.	Zinc as (Zn)	mg / l	1.0	0.15	0.21
3.	Total Chromium as (Cr)	mg / l	0.2	0.009	0.015
4.	Phosphate as (PO4)	mg/l	5.0	1.32	1.33

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Sample Category : Unit-4-Cooling Tower Blow Down water (WW-4)

Sr. No.	Parameters	Unit	MPCB Limit	Results	
				May2020	Sept. 2020
1.	Free Available Chlorine	mg / l	0.5	0.17	0.15
2.	Zinc as (Zn)	mg / l	1.0	0.19	0.18
3.	Total Chromium as (Cr)	mg / l	0.2	0.010	0.010
4.	Phosphate as (PO4)	mg/l	5.0	1.31	1.31

Sample Category : Unit-5- Cooling Tower Blow Down water (WW-5)

Sr. No.	Parameters	Unit	MPCB Limit	Results	
				May2020	Sept. 2020
1.	Free Available Chlorine	mg / l	0.5	0.16	0.30
2.	Zinc as (Zn)	mg / l	1.0	0.17	0.22
3.	Total Chromium as (Cr)	mg / l	0.2	0.013	0.016
4.	Phosphate as (PO4)	mg/l	5.0	1.35	1.41

Sample Category : Unit-2- Boiler Blow Down water (WW-6)

Sr. No.	Test Parameters	Unit	MPCB Standards	Results	
				May2020	Sept. 2020
1.	TSS	mg / l	100	Sample Not Available	24
2.	Oil & Grease	mg / l	20		< 4
3.	Copper (as Cu)	mg / l	1		0.05
4.	Iron (as Fe)	mg / l	1		0.01

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TABLE- 3.7 Pizo-metric well water Report

Monitoring Date: 28.05.2020

STATIC WATER LEVEL OF PIZO. WELL				
Name of village	Water level from B.G.L. (m)	Total Depth of Pizo well from G.L (m)	Total Depth of Pizo well with Casing (m)	Landmark
Pizo well (P1)	2.70	18.6	19.8	Near AWRPH
Pizo well (P2)	2.40	20.0	21.0	B/H Ash dyke -1
Pizo well (P3)	2.60	20.0	20.7	Near Raw Water pump house -02

Pizo-metric well water Analysis Report

Sr. No.	Test Parameters	Unit	As per IS : 10500 : 2012	Pizo well (P1) Near AWRPH	Pizo well (P2) B/H Ash dyke -1	Pizo -well (P3) Near Raw Water pump house -02
1	pH		6.5 to 8.5	8.05	8.15	8.0
2	Total Dissolved Solid	mg / l	500 (2000)	630	738	720
3	Electrical Conductivity	µS/cm	-	1021.3	1194	1172
4	Copper as(Cu)	mg / l	0.05 (1.5)	< 0.01	< 0.01	< 0.01
5	Iron (as Fe)	mg / l	0.3 (1.0)	0.18	0.20	0.18
6	Manganese as (Mn)	mg / l	0.1 (0.3)	0.095	0.10	0.095
7	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005	< 0.0005
8	Cadmium as (Cd)	mg / l	0.01	0.0021	0.0033	0.0016
9	Selenium as (Se)	mg / l	0.01	0.0016	0.0024	0.0019
10	Arsenic as (As)	mg / l	0.05	0.014	0.016	0.012
11	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005	< 0.005
12	Lead as (Pb)	mg / l	0.05	0.0031	0.0031	0.0013
13	Zinc as (Zn)	mg / l	5 (15)	3.90	4.05	3.84
14	Total Chromium as (Cr)	mg / l	0.05	< 0.010	< 0.010	< 0.010

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For the Month Sept 2020

STATIC WATER LEVEL OF PIZO. WELL				
Name of village	Water level from B.G.L. (m)	Total Depth of Pizo well from G.L (m)	Total Depth of Pizo well with Casing (m)	Landmark
Pizo well (P1)	0.4	18.6	19.8	Near AWRPH
Pizo well (P2)	0.6	20.0	21.0	B/H Ash dyke -1
Pizo well (P3)	0.4	20.0	20.7	Near Raw Water pump house -02

Pizo-metric well water Analysis Report

Sr. No.	Test Parameters	Unit	As per IS : 10500 : 2012	Pizo well (P1) Near AWRPH	Pizo well (P2) B/H Ash dyke -1	Pizo -well (P3) Near Raw Water pump house -02
1	pH		6.5 to 8.5	7.70	7.80	7.70
2	Total Dissolved Solid	mg / l	500 (2000)	450	480	508
3	Electrical Conductivity	µS/cm	-	730	780	824
4	Copper as(Cu)	mg / l	0.05 (1.5)	< 0.01	< 0.01	< 0.01
5	Iron (as Fe)	mg / l	0.3 (1.0)	0.11	0.11	0.10
6	Manganese as (Mn)	mg / l	0.1 (0.3)	0.065	0.070	0.072
7	Mercury as (Hg)	mg / l	0.001	< 0.0005	< 0.0005	< 0.0005
8	Cadmium as (Cd)	mg / l	0.01	0.0011	0.0014	0.0010
9	Selenium as (Se)	mg / l	0.01	0.0010	0.0011	0.0012
10	Arsenic as (As)	mg / l	0.05	0.007	0.008	0.008
11	Cyanide as (CN)	mg / l	0.05	< 0.005	< 0.005	< 0.005
12	Lead as (Pb)	mg / l	0.05	0.0015	0.0016	0.0010
13	Zinc as (Zn)	mg / l	5 (15)	1.8	2.70	2.94
14	Total Chromium as (Cr)	mg / l	0.05	< 0.010	< 0.010	< 0.010

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TABLE- 3.8 Noise Level (Within Plant area)

SL. NO.	LOCATION	RESULT (dBA)					
		DAY					
		April 2020	May 2020	Jun. 2020	Jul. 2020	Aug. 2020	Sept. 2020
1	Near Shanti Niketan I, II & III	52.9	43.4	57.7	53.5	42.9	41.8
2	Near Labour Hutment	63.5	63.8	62.8	61.6	63.8	61.5
3	Near Store Area	57.9	64.5	68.2	54.4	63.1	54.3
4	Gate No.1	54.8	57.1	55.2	56.7	57.7	53.2
5	Gate No.2	62.1	57.3	66.1	51.7	58.1	64.4
6	Gate No.3	64.7	63.6	71.2	64.7	60.7	53.4
7	Near OHC	52.6	64.6	56.0	60.7	60.6	61.3
8	Railway Siding	65.9	65.8	67.3	65.7	65.6	64.9
9	Near Reservoir 2	54.3	52.6	59.7	62.2	55.0	59.3
10	Near Ash Water Recovery Pump House	52.0	61.1	61.5	66.3	52.1	64.3
11	In China Colony	42.2	41.1	41.1	46.6	39.7	40.7
CPCB Standards							
Industrial Area		75					

SL. NO.	LOCATION	RESULT (dBA)					
		NIGHT					
		April 2020	May 2020	Jun. 2020	Jul. 2020	Aug. 2020	Sept. 2020
1	Near Shanti Niketan I II & III	43.0	40.2	47.3	50.2	40.0	39.9
2	Near Labour Hutment	55.4	53.4	55.4	58.4	57.2	58.1
3	Near Store Area	45.5	45.5	51.1	48.5	58.4	49.7
4	Gate No.1	44.0	43.0	49.0	51.1	52.0	47.8
5	Gate No.2	53.3	50.3	58.3	46.6	51.1	50.0
6	Gate No.3	54.8	51.8	56.7	58.7	53.3	50.6
7	Near OHC	49.5	58.5	48.8	50.0	56.4	54.2
8	Railway Siding	57.4	55.4	60.5	61.1	60.4	59.2
9	Near Reservoir 2	41.1	40.1	48.5	47.7	50.7	51.1
10	Near Ash Water Recovery Pump House	40.5	51.5	50.4	55.3	49.4	54.2
11	In China Colony	38.8	37.8	38.5	41.8	37.7	38.0
CPCB Standards							
Industrial Area		70					

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TABLE- 3.9 SOIL ANALYSIS as Per IS 2720 for (Sept.2020)

Sr. No.	Test Parameters	Unit	Garada Village	Mendipur Village	Churdi Village
1	pH	-	7.85	8.0	7.90
2	E. Conductivity	μs/cm	622	434	460
3	Nitrogen as N	Kg/ha	234	215	180
4	Phosphorus as P2O5	Kg/ha	98.7	72.3	51.7
5	Potassium as K	Kg/ha	68.3	58.8	46.6
6	Calcium (as Ca)	Kg/ha	3.74	4.02	3.92
7	Magnesium (as Mg)	Kg/ha	1.28	0.96	1.04
8	Total Organic Carbon	%	0.652	0.682	0.617
9	Iron as Fe	Kg/ha	2.44	2.30	2.17
10	Boron as B	Kg/ha	ND	ND	ND
11	Natural Moisture Content	%	6.3	6.5	6.6
12	Field Capacity	%	6.7	6.2	7.2
13	Wilting Coefficient	%	0.70	0.67	0.73
14	Available Water Storage Capacity	%	0.62	0.63	0.62
15	Bulk Density	gm/cc	1.37	1.38	1.36
16	Grain size Distribution : a) Sand	%	35.6	37.2	36.5
	b) Silt	%	31.8	31.9	33.3
	c) Clay	%	32.6	30.9	30.2
17	Cation Exchange Capacity	meq/100gm	37.1	35.4	36.1
18	Biological Status:				
	a) Total Heterotrophy	CFU	52.4 x10 ³ /gm	33.6 x10 ³ /gm	46.3 x10 ³ /gm
	b) Azetobacter	CFU	60.3 x10 ³ /gm	43.7 x10 ³ /gm	51.5 x10 ³ /gm
	c) Actinomycetes	CFU	44.7 x10 ² /gm	28.1 x10 ² /gm	46.1 x10 ³ /gm
	d) Yeast	CFU	173 x10 ² /gm	198 x10 ² /gm	181 x10 ² /gm

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Annexure I - On site Meteorological Data for APR. 2020- SEPT. 2020

Apr. 2020

Date	Wind Direction (Blowing From)	Wind Speed (Km/hr)		Temperature (°C)			Humidity (%)			Barometric Pressure (mBar)	Rainfall (mm)
		Max.	Avg.	Max	Min	Avg.	Max	Min	Avg	(Average)	
01.04.2020	ENE	38.8	5.9	33.6	20.6	27.3	78.3	34.6	53.2	981.2	0.0
02.04.2020	S	24.0	3.2	34.8	20.7	28.0	79.1	28.0	48.8	980.1	0.0
03.04.2020	S	60.8	5.7	34.1	21.2	27.1	87.1	33.8	47.3	981.4	11.8
04.04.2020	S	59.5	5.1	32.6	21.1	25.7	87.5	38.7	65.5	982.2	0.0
05.04.2020	S	26.4	2.8	34.4	20.5	26.9	88.9	35.6	59.6	983.0	0.0
06.04.2020	NNW	47.9	4.4	34.8	22.1	27.8	77.4	35.5	53.9	982.0	0.0
07.04.2020	ENE	35.6	5.3	34.2	21.9	27.7	72.9	33.6	52.8	979.7	0.0
08.04.2020	ENE	37.3	6.5	34.9	23.0	28.2	72.2	27.6	46.1	980.3	0.0
09.04.2020	NW	37.8	5.3	37.7	22.1	28.1	61.4	24.6	43.6	981	0.0
10.04.2020	NW	59.3	5.7	34.9	22.6	27.3	74.4	27.8	49.2	982.4	0.0
11.04.2020	SE	40.9	4.1	35.2	20	27.8	72.1	29.4	46.9	983.8	0.0
12.04.2020	N	35.1	4.1	35.9	22	29.5	73.7	28.8	45.5	981.9	0.0
13.04.2020	NNW	31.4	5.1	35.7	22.4	29.7	74.8	30.1	46.3	980.5	0.0
18.04.2020	SSW	41.5	4.8	38.6	24.8	29.6	63.4	29.7	42.2	964.6	0.0
19.04.2020	NNW	31	6.6	32.2	24	27.5	69.5	36.6	52.3	980.9	0.0
20.04.2020	ENE	35.6	5.8	38.2	22.6	29	75.9	31.7	50.1	979.8	0.0
21.04.2020	N	59.5	7.7	38.6	25.5	30.3	61.5	28.3	45.5	979	0.0
22.04.2020	NW	41.7	5.9	39.5	23.2	29.4	64.4	31.1	43.6	979.2	0.0
23.04.2020	NNW	43.5	6.3	39.8	25.1	30.0	63.7	28.4	46.7	978.4	0.0
24.04.2020	ENE	59.5	8.2	39.4	25.3	30.1	63.4	29.9	46.2	976.9	0.0
25.04.2020	ENE	45.7	5.5	40.1	25.4	30.3	67.0	28.1	43.6	977.1	0.0
26.04.2020	NE	44.0	7.1	39.3	25.3	30.1	63.4	29.9	46.2	976.9	0.0
27.04.2020	WNW	62.5	8.7	35.1	20.6	26.5	69.6	38.2	42.5	980.0	0.8
28.04.2020	E	34.4	4.3	36.9	21.0	26.5	68.9	37.2	46.3	981.3	0.0
29.04.2020	NNW	53.4	3.9	38.2	21.6	27.3	65.9	29.1	42.3	972.6	0.0
30.04.2020	ESE	58.5	5.5	36.2	23.9	28.9	60.8	27.9	43.9	980.3	0.0

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May 2020

Date	Wind Direction (Blowing From)	Wind Speed (Km/hr)		Temperature (°C)			Humidity (%)			Barometric Pressure (mBar) (Average)	Rainfall (mm)
		Max.	Avg.	Max	Min	Avg.	Max	Min	Avg		
01.05.2020	E	63	7.5	35.5	22	28.6	68.3	30.6	45.6	979.2	2.4
02.05.2020	NW	28.2	4.2	40.3	30.6	24.5	59.6	24.4	39.4	977.3	0
03.05.2020	NNW	32.1	4.8	41.2	25.7	31.5	56.3	25.1	37.8	977	0
04.05.2020	ENE	48.2	7.1	41.5	25	31.8	50.9	26.5	36.8	977.8	0
05.05.2020	S	47.9	6.2	41.9	25.4	31.6	57	30.6	42.4	978.2	0
06.05.2020	NW	38	5.8	41.5	25.5	30.3	57.3	27.7	42.9	978.6	0
07.05.2020	NW	61.8	6.6	42.1	23.2	30.1	60.9	33	45.1	979.5	0.2
08.05.2020	ENE	63	9.3	34.9	25.4	28.2	61.3	33.9	50.8	978.3	0
09.05.2020	ENE	44.7	5	41.2	22.7	28.8	71.5	30.5	48.9	979.4	0
12.05.2020	NW	38	5.1	41.6	24.4	30.2	60.8	30	42.7	979.3	0.4
13.05.2020	ENE	63	8.1	41.1	24.1	27.8	64.4	34.4	49	978.6	0
14.05.2020	ESE	35.3	4.2	39.8	22.9	29.9	70.4	29.7	46.3	978.3	0
15.05.2020	E	51.6	6.6	37.1	26.2	31.2	57.8	30.9	43	976.4	0
16.05.2020	NNE	33.8	4.5	36.3	22.2	29.4	77.7	33.1	48.9	976.7	8.2
17.05.2020	W	63	7.4	36.8	25.5	30.9	62.3	30.6	58.5	976	0
18.05.2020	ESE	62.2	6.5	41.6	25.4	31.1	58.1	29.3	42.1	973.6	0
19.05.2020	S	49.4	3.8	42.5	23.9	29.4	63.8	28.2	43.1	972.6	0
20.05.2020	S	54.3	4.2	42.9	23.7	31.2	61.8	20.4	36.8	971.4	0
21.05.2020	SSE	42.7	4.3	43.1	23.4	32.5	49.3	20.2	31.5	973.5	0
22.05.2020	SSE	54.8	3.6	46.5	26	32.6	60.4	20.9	33.7	974.8	0
23.05.2020	NW	40.3	3.6	45.9	26.3	34.5	46.9	21.8	30.9	975.3	0
24.05.2020	NW	38.5	4.6	46.2	28	35.2	48.2	22.7	32.3	976.1	0
25.05.2020	NNW	28.4	4.1	46.9	27.8	33.5	50.5	22.4	34.9	976.5	0
26.05.2020	N	40.5	7.1	46.1	28.1	35.6	55.9	23.1	37.4	976.4	0
27.05.2020	NE	59.5	8	45.6	27.9	34.6	55.7	23.9	35.4	974.9	0
28.05.2020	NNW	40.3	5.6	46.2	28.6	35.6	49	23.5	33.6	973.5	0
29.05.2020	NW	49.2	6.2	45.9	27.5	32.6	51.5	27.1	37.5	974.7	0
30.05.2020	N	52.6	7.2	45.7	29.6	31.6	50.78	25.4	36.3	974.9	0

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Jun. 2020

Date	Wind Direction (Blowing From)	Wind Speed (Km/hr)		Temperature (°C)			Humidity (%)			Barometric Pressure (mBar) (Average)	Rainfall (mm)
		Max.	Avg.	Max	Min	Avg.	Max	Min	Avg		
02.06.2020	SSE	41	5.2	34	25.6	22.2	42.3	33.7	27.2	979.1	3.6
03.06.2020	SW	34.1	4.4	30.1	22.2	25.5	42.6	23.9	35.8	978	10.8
04.06.2020	ENE	61.8	13.2	31.8	22.7	28.2	43.3	26.6	34.4	974.5	2.6
05.06.2020	NE	42.5	13.9	32.8	21.7	24.6	45.6	25	35.5	975.1	0
06.06.2020	ENE	62.2	6.4	36.6	20.9	26.3	43.4	21.2	32.2	975.8	8.4
07.06.2020	E	63	5.3	32.4	22.2	26.6	41.1	22	32.9	975	26.4
08.06.2020	NE	42.2	3.8	34	24.1	28.1	39.9	18.9	30.2	975	1.8
09.06.2020	SE	60.5	3.7	40.6	24.4	28.6	39.1	17.8	28.5	974.9	0
10.06.2020	ENE	31.4	4.4	41.2	25.2	29.7	37.4	16.9	27.3	973.5	0
11.06.2020	ENE	48.7	5.8	40.1	24.2	30.1	38.7	18	30	971.5	0
12.06.2020	ENE	63	4.7	38.7	24.3	28.9	43.1	22	34.2	970.6	26.2
13.06.2020	ENE	21.2	4.2	31.9	26.9	28.9	43	31.3	38.5	971.8	3.2
14.06.2020	E	57.3	4.3	38.5	26	30.3	44	22.9	36.5	972.9	16.2
15.06.2020	E	63	4.1	37.8	27	29.7	43.4	23.1	38.1	972.3	1.8
16.06.2020	NE	34.8	6.6	34.4	27	30.2	43.9	30.2	37	970.9	2.6
17.06.2020	ENE	39.3	6.6	33.8	27.4	30.5	42.5	30.8	36.5	971.4	0
18.06.2020	ENE	52.2	8.8	35.5	24.7	30	43.9	27.5	35.3	973	14.8
19.06.2020	ENE	41.7	8	35.9	25.3	30.2	44.1	24.3	34.8	973.9	3.6
20.06.2020	ENE	44	9.6	34.9	28.7	31.5	38.9	25.4	31.9	973.7	0
21.06.2020	E	52.6	12.8	35.1	26.3	31.4	41.1	32.7	33.3	972.1	0
22.06.2020	E	52.2	7.4	31.8	25.5	28.5	44.1	30.6	37.3	971.7	26
23.06.2020	E	30.6	6.1	28.8	25.3	26.7	44.6	40.4	43.2	974.3	19.6
24.06.2020	NW	54.3	3.8	38.2	26.4	30.8	43.6	23.3	36	976.1	0
25.06.2020	NE	37	5.3	38	28	32	41.6	24.9	33.5	975.4	0
26.06.2020	ENE	37.8	5.2	36.1	27.4	31.8	40.1	26.8	32.9	975	0
27.06.2020	ENE	46.2	6.5	36.8	27.6	31.5	63.2	24.4	32.9	975.4	0
28.06.2020	ENE	62.5	6.8	38.4	25.3	29.8	60.1	22.7	36.5	975.3	54.2
29.06.2020	WSW	34.8	2.2	37.7	26.7	30.8	57.6	25.4	36.7	975	0
30.06.2020	WSW	32.1	3.3	35.5	26.1	30.5	58.6	27.1	36.2	974.6	11.8

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July 2020

Date	Wind Direction (Blowing From)	Wind Speed (Km/hr)		Temperature (°C)			Humidity (%)			Barometric Pressure (mBar) (Average)	Rainfall (mm)
		Max.	Avg.	Max	Min	Avg.	Max	Min	Avg		
01.07.2020	E	29.9	5.8	35.4	26.2	30.5	53.6	26.8	35.5	974	0.4
02.07.2020	ENE	55	4.8	37.9	26.1	30.8	63.9	24.4	38.6	972.4	8.6
03.07.2020	ENE	33.3	6	35.2	27.7	30.8	65.9	28	36.2	971.8	0
04.07.2020	ENE	30.6	4.4	34.3	27.8	29.8	69.7	29.7	37.7	971.1	0
05.07.2020	ENE	61	4.8	34.6	25.9	27.9	79.6	35.6	42.3	970.2	42.4
06.07.2020	ENE	38.3	9.4	31.4	25.5	27.3	68.9	33.9	46.9	970.9	37.2
07.07.2020	NNW	28.7	6.6	36	26.4	30.4	72.6	26.1	36.9	973.7	0.6
08.07.2020	ENE	32.6	6.9	36.1	27.7	31.4	71.3	25.5	33.4	975.7	0
09.07.2020	ENE	35.6	4.8	35.6	27.5	30.2	69.3	27.6	37.2	974.2	3.8
10.07.2020	ENE	40.8	6.6	34.4	26.9	29.3	76.9	28.5	38.5	974.4	2.2
11.07.2020	ENE	48.9	5.4	33.2	27	29.7	69.3	30.8	38.5	974.3	6.4
12.07.2020	N	63.1	6.9	35.5	25.4	29.6	76.9	28.1	38.1	974.4	20.6
13.07.2020	ENE	31.1	5.4	37.5	26.9	29	89.5	35.6	45.9	973.9	11.8
14.07.2020	N	29.1	2.8	34.1	27.1	29.7	91.6	38.9	43.2	973.5	0.4
15.07.2020	ENE	27.9	4.3	34.2	26.3	28.7	85.3	29.6	34.6	972.6	0.8
16.07.2020	NE	45.9	5.7	37.5	25.7	26.6	93.6	31.9	49.3	970.4	16
17.07.2020	NNW	26.2	5.5	34.7	27	30.1	72.6	27.9	32.5	972.6	1.2
18.07.2020	NW	26.9	5.5	38.2	27.6	31.9	81.5	28.6	52.4	974.9	0
19.07.2020	NE	63	6.12	36.1	27.8	30.5	88.2	42.6	81.3	975.4	0
20.07.2020	ENE	27.4	4.4	29.8	27	28.3	92.1	88.7	83.1	974.8	2.4
21.07.2020	N	41.2	5.1	33.3	26.5	29.7	94.3	69.8	85.3	976.4	1.6
22.07.2020	NE	62.2	4.3	35	26.1	29.7	93.9	67.2	83.7	976.7	30.2
23.07.2020	NNE	35.1	7.2	33.1	24.9	27.2	95.6	71.6	89.6	976.1	24.6
24.07.2020	NE	17.8	3.2	34.6	25.7	28.7	95	62	84	977.3	0
25.07.2020	NNW	32.4	4.6	34.5	27.2	30.3	92	59.6	79.3	978.5	0
26.07.2020	NNW	24.2	4.65	37.4	27.2	31.1	92.8	52.4	76.5	979.3	3
27.07.2020	NW	31.9	4.6	38.5	28.5	32.6	89.3	50.9	72.3	977.6	0
28.07.2020	NNW	44.2	4.4	37.2	24.3	31.2	88.3	56.5	77.2	975.8	1.5
29.07.2020	NW	31.1	5.1	36.9	30	26	97.7	56.5	79.2	975.4	21
30.07.2020	NWN	26.4	4.3	36.2	27.7	31.3	91.6	57.2	77.4	976	0
31.07.2020	NW	20.5	4.1	36.8	28.3	31.8	90.5	58.2	77.9	975.6	0

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Aug. 2020

Date	Wind Direction (Blowing From)	Wind Speed (Km/hr)		Temperature (°C)			Humidity (%)			Barometric Pressure (mBar) (Average)	Rainfall (mm)
		Max.	Avg.	Max	Min	Avg.	Max	Min	Avg		
01.08.2020	NNW	45.7	4.1	37.2	27.6	30.7	93.7	58.8	81.1	975	13.4
02.08.2020	NW	28.2	4.4	35.8	26.8	30.5	90.5	62.5	79	973.7	0
03.08.2020	NE	49.9	8.6	32.6	25.6	28.8	96	69.4	85.1	971.1	54.4
04.08.2020	NNE	45.7	4.6	32.5	25.7	27.8	96.2	74.9	90.1	968.1	6.8
05.08.2020	NE	46.1	5.1	33.2	22.8	28	95.8	66.7	81.25	978	2.5
06.08.2020	NNW	38.8	6.7	32.7	26.4	28.3	95.6	68.8	86.9	967.5	6.6
07.08.2020	NE	35.3	7.4	33.1	27.4	29.7	92.3	67.5	81.8	972.1	0
08.08.2020	ENE	56.6	8.8	31.9	26.4	28.9	95.9	85.4	71.9	971.8	31.2
09.08.2020	ENE	49.4	5.9	28.7	26.1	27.2	96.7	87	93.4	970.1	63.4
10.08.2020	N	28.7	9.1	30.9	26.5	27.8	96.5	80.9	93.3	969.3	12.4
11.08.2020	NE	47.2	10.1	33	27	28.6	96	74.5	90.4	970.1	7.6
12.08.2020	ENE	37.8	8.9	31	27	28.2	95.6	78.6	89.1	971.8	9.4
13.08.2020	NNE	44.7	13.1	28.6	26.3	26.9	97	87	94.1	969.8	57.4
14.08.2020	NE	46.7	13.7	28.9	25.2	26.6	96.3	84	92.3	968.2	2.8
15.08.2020	NNE	34.3	9.5	29.1	25.5	27.3	96.2	83.9	91.7	968.5	2.8
16.08.2020	NE	33.6	13.7	28.9	25.2	26.6	96.4	88.3	93.3	968	4.2
17.08.2020	NNE	35.1	10.9	31.3	26.2	27.8	96.4	80.3	96.4	968.1	2.6
18.08.2020	NE	34.8	10.7	28.8	26.7	27.5	95.2	88.4	92.4	969.6	3.2
19.08.2020	ENE	50.4	8.7	33.7	26.8	28.4	96.2	69.8	89.6	968.9	34.6
20.08.2020	NW	60.3	9.6	34.8	25.9	28.3	97	66.8	89.7	967.1	60
21.08.2020	NNE	57.6	13.1	28	26.2	27	96.9	89.1	93.1	968.5	16.8
22.08.2020	ENE	41	5.1	32	26.2	28.3	95.9	71.9	86.3	972.1	4.4
23.08.2020	NE	36.6	4.7	34.4	25.9	28.5	96.2	65.2	86.5	973.5	14.8
24.08.2020	NNE	33.6	5.4	34.8	26.4	29.9	93.6	61.1	78.7	974.1	0
25.08.2020	ENE	45	8.1	33.9	27.5	30	90	62.9	79.4	975.7	0
26.08.2020	NE	22.2	6.4	31.1	27.6	28.9	90.5	74.1	83.2	975.4	0
27.08.2020	ENE	49.6	12.9	28.2	26.1	26.9	96	87.8	93.1	972	22.2
28.08.2020	ENE	63	21.9	26.5	24.4	25.5	99.8	92.5	95.6	969.2	112.2
29.08.2020	NE	59.4	9.1	29.6	25.4	27.1	96.5	79.3	89.4	971.2	9.4
30.08.2020	N	30.6	6.1	35	25.9	29.7	95.2	60.5	80.4	974	2.6
31.08.2020	NE	33.6	5.1	34.6	26.9	30.5	93.4	59.4	78.1	976	0

Adani Power Maharashtra Limited
Six Monthly Environmental Monitoring Reports

Sept. 2020

Date	Wind Direction (Blowing From)	Wind Speed (Km/hr)		Temperature (°C)			Humidity (%)			Barometric Pressure (mBar) (Average)	Rainfall (mm)
		Max.	Avg.	Max	Min	Avg.	Max	Min	Avg		
01.09.2020	ENE	36.3	2.9	36.8	27.2	31.4	94	56.7	76.6	974.7	2
02.09.2020	NE	21.7	1.6	33.8	27.5	29.2	93.5	66.9	83.8	976.3	0
03.09.2020	NW	27.2	4	36.6	26.8	30.4	94.3	55.7	79.2	976.8	0
04.09.2020	NNW	24.2	3.3	36.8	27.3	31.5	93.3	56.6	76.6	976.7	0
05.09.2020	NE	26	2.9	35.9	27	30	92.3	60.9	81.8	975.6	0
06.09.2020	NE	24.2	3.7	38	26.8	30.9	97.4	52.5	78.2	974.9	0
07.09.2020	NNE	33.3	4.9	34.7	27	30.4	94.7	62.5	80.6	975.4	0
08.09.2020	NE	22.5	3.9	36.4	27.6	30.9	93.8	58.2	78.2	976.1	0
09.09.2020	NE	25.2	2.9	36.3	27.2	30.2	93.3	62.6	82.5	975.1	0
10.09.2020	NNE	21.5	3.6	35.5	27.3	29.9	93.5	64.3	82.6	973.4	0.4
11.09.2020	NE	35.3	3.1	36	26.4	29.1	94.9	62.3	84.6	973	2.2
12.09.2020	ENE	15.1	1.6	37.9	26.8	30.8	93.9	54	79.9	976.4	0
13.09.2020	NE	23	1.9	37.3	27.6	31.6	93.2	56.4	78.5	974.2	0.6
14.09.2020	NE	25.4	3.2	37.4	27.9	32	93.4	54.1	75.4	973.4	0
15.09.2020	ENE	30.6	2.4	36	28	31.8	90.8	58.6	75.7	973.4	0
16.09.2020	ENE	25.9	2.3	36.5	27.8	31.5	92.9	58.8	78.4	973.5	0
17.09.2020	ENE	22	2.7	37.6	27.8	31.3	92.9	56.3	81.2	973.5	0
18.09.2020	NE	49.6	4	37	25.5	30.5	94.6	60.5	72.6	972.7	8.2
19.09.2020	NNW	32.6	3.3	37.6	26.5	29.9	95.4	60.8	81.7	971.2	0.5
20.09.2020	SSE	33.3	3.1	35.6	26.4	30.1	94.7	62.7	81.6	969.2	0.3
21.09.2020	SES	30.4	3.2	30.8	25.3	27.6	95.6	78.1	90.7	968.4	13.5
22.09.2020	SE	40.3	5.2	33.3	25.8	27.4	96.6	70.7	91.9	968.6	10
23.09.2020	NE	39.8	6.8	32.8	26.9	28.8	95.5	70.8	88.2	970.8	6.4
24.09.2020	SE	31.9	6.7	32.6	27.2	28.5	94.9	73.3	89.8	973.6	3.8
25.09.2020	SSE	31.9	5.2	35.1	27	30.1	96.4	64	81.9	974.5	0
26.09.2020	SSE	23	3.5	36.7	27.1	30.3	95	58.1	81.2	974.1	0
27.09.2020	NNE	46.4	3.3	36.9	26.3	29	92.8	55.9	82.3	975.8	1
28.09.2020	SSE	28.9	2.4	37.8	25.9	30.5	95	54.4	77.8	976.6	0
29.09.2020	NE	32.9	2.7	37.2	26.4	30	94	53	78.6	975.9	0
30.09.2020	SE	26.4	2.6	36.8	26.1	30.6	91.9	51.1	73.9	974.7	0

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No : TC519320000000401F

Date 30.04.2020

Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Plant)					
Sample Collected by :		Environment Dept. APML					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting Date	Parameters			
				PM 10 µg/m ³	PM 2.5 µg/m ³	SO ₂ µg/m ³	NO _x µg/m ³
AAQ 1	Near AWRS	03.04.2020	04.04.2020	88.6	35.7	12.3	23.5
		06.04.2020	07.04.2020	79.1	23.9	11.9	28.9
		10.04.2020	11.04.2020	89.0	37.8	10.8	25.3
		13.04.2020	14.04.2020	77.0	26.2	12.9	26.5
		17.04.2020	18.04.2020	80.0	31.5	9.6	19.8
		20.04.2020	21.04.2020	76.0	28.4	8.6	16.2
		24.04.2020	25.04.2020	75.1	29.5	7.6	12.6
AAQ 2	Near Brick Plant	03.04.2020	04.04.2020	66.1	21.5	11.9	18.0
		06.04.2020	07.04.2020	75.7	22.2	8.4	12.0
		10.04.2020	11.04.2020	62.9	20.3	9.4	11.4
		13.04.2020	14.04.2020	72.2	24.1	7.8	10.8
		17.04.2020	18.04.2020	66.8	16.6	11.0	16.2
		20.04.2020	21.04.2020	57.1	13.8	8.8	12.6
		24.04.2020	25.04.2020	63.5	16.3	7.4	14.4
AAQ 3	China Colony	03.04.2020	04.04.2020	87.4	38.0	15.5	29.5
		06.04.2020	07.04.2020	81.5	35.7	12.5	28.9
		10.04.2020	11.04.2020	80.1	28.3	14.3	26.5
		13.04.2020	14.04.2020	86.9	36.0	12.9	25.9
		17.04.2020	18.04.2020	75.0	24.5	8.8	19.2
		20.04.2020	21.04.2020	75.5	27.0	9.2	16.2
		24.04.2020	25.04.2020	78.7	27.9	11.7	18.6
		27.04.2020	28.04.2020	84.1	30.9	13.1	27.7
NAAQMS Standard				100	60	80	80

End of the Report

Note: Tested results are well within the permissible limits of National Ambient Air Quality Monitoring Standard (NAAQMS).

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Authorized Signatory
(Technical Manager)

Page 1 of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No. : URLTC519320000000427F

Date: 30.04.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911
Sample Particulars :	Ambient Noise Level (Plant)
Sample Collected by :	Environment Dept. APML
Date of Sampling:	25.04.2020

Test Report

S. No	Locations	Day Time in dB (A)	Night Time in dB (A)
		(6.00 a.m. to 10.00 p.m.)	(10.00 p.m. to 06.00 a.m.)
1	Near Shanti Niketan I II & III	52.9	43.0
2	Near Labour Hutment	63.5	55.4
3	Near Store Area	57.9	45.5
4	Gate No.1	54.8	44.0
5	Gate No.2	62.1	53.3
6	Gate No.3	64.7	54.8
7	Near OHC	52.6	49.5
8	Railway Siding	65.9	57.4
9	Near Reservoir 2	54.3	41.1
10	Near Ash Water Recovery Pump House	52.0	40.5
11	In China Colony	42.2	38.8
CPCB Standards (Industrial Area)		75	70

*** End Of the Report***

Note: Tested results are well within the permissible limits of MPCB / CPCB.

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TC-5193
(NABL Certificate No.)

(Signature)
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL NO :TC519320000000406F

Date: 30.04.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	08.04.2020	Analysis Starting Date :	08.04.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Condenser Cooling Water (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5			

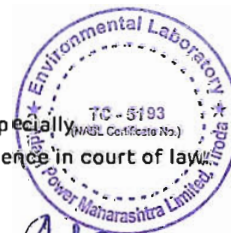
TEST REPORT

Sr no	Parameter	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	pH Value	---	APHA-23rd - 4500-H+B Electrometric Method	6.5-8.5	7.7	7.6	7.9	7.5	7.4
2	Temperature	Deg C	APHA-23rd - 2550 B	---	36	36	35	36	35
3	Free Available Chlorine	PPM	APHA-23rd – 4500-Cl G, DPD Colorimetric Method	0.5	0.2	0.3	0.4	0.2	0.1

End of the Report

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 Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000407F

Date: 30.04.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	08.04.2020	Analysis Starting Date :	08.04.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Cooling tower blowdown (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5.			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	Free Available Chlorine	mg/l	APHA-23rd – 4500-Cl G, DPD Colorimetric Method	0.5	0.3	0.2	0.4	0.2	0.1
2	Phosphate as (PO4)	mg/l	APHA-23rd -4500-P D Stannous Chloride Method	5	3.3	2.1	2.4	3.5	1.4
3	Zinc as (Zn)	mg/l	----	1	BDL	BDL	BDL	BDL	BDL
4	Total Chromium as (Cr)	mg/l	----	0.2	BDL	BDL	BDL	BDL	BDL

End of the Report

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 (Technical Manager)

URL:TC519320000000407F

Date: 30.04.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	08.04.2020	Analysis Starting Date	08.04.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APML
Sample Particulars : Treated Effluent Water			
Location of sample : DM Plant N-Pit , ETP Outlet			

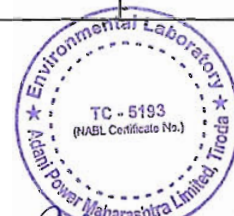
TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					N-pit	ETP Outlet
1	pH Value	---	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.8	7.5
2	TSS	mg / l	APHA-23rd - 2540 D	100	45	32
3	TDS	mg / l	APHA-23rd - 2540 C	2100	409	382
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	250	70	48
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	21	18
6	Oil & Grease	mg / l	APHA-23rd Ed 2017-5520 B Liquid Liquid Partition Gravimetric method	10	BDL	1.4

End of the Report

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4. # Indicates this parameter is not covered in our NABL scope



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ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL:TC51932000000409F

Date: 30.04.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	08.04.2020	Analysis Starting Date	08.04.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept.
Sample Particulars : Treated Waste Water			
Location of sample : STP -1 & 2 Out Let			

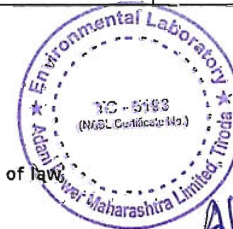
TEST REPORT

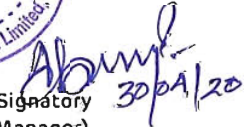
Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					STP-1	STP-2
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.6	7.5
2	TSS	mg / l	APHA-23rd - 2540 D	500	25	68
3	TDS	mg / l	APHA-23rd - 2540 C	2100	301	244
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	100	55	78
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	24	13

End of the Report

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Page 1 Of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

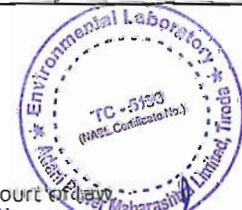
TC519320000000433F			Date: 30.04.2020		
TEST REPORT					
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -5		
2	Date of Sampling	:	28.04.2020		
3	Time of Sampling	:	4:20 PM		
4	Load (MW)	:	605		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (⁰ C)	:	122		
9	Flue Gas Velocity (M/sec)	:	22.66		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2546999		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	44.4
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	887.1
			80.2	TPD	54.2
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	289.5

* Results are corrected with 6% oxygen

End of the Report

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ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01


TC51932000000432F		Date: 30.04.2020			
TEST REPORT					
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -4		
2	Date of Sampling	:	28.04.2020		
3	Time of Sampling	:	3:47 PM		
4	Load (MW)	:	558		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (^o C)	:	124		
9	Flue Gas Velocity (M/sec)	:	22.69		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2537279		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	47.7
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	939.6
			80.2	TPD	57.2
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	287.2

* Results are corrected with 6% oxygen

End of the Report

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Page 1 of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC519320000000431F		Date: 25.04.2020			
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -3		
2	Date of Sampling	:	23.04.2020		
3	Time of Sampling	:	12:30 PM		
4	Load (MW)	:	596		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	126		
9	Flue Gas Velocity (M/sec)	:	22.04		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2452122		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	45.7
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	925.8
			80.2	TPD	51.4
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	286.6

* Results are corrected with 6% oxygen

End of the Report

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(Signature)
**Authorized Signatory
 (Technical Manager)**

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC519320000000430F		Date: 25.04.2020			
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -2		
2	Date of Sampling	:	23.04.2020		
3	Time of Sampling	:	11:17 AM		
4	Load (MW)	:	616		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (⁰ C)	:	128		
9	Flue Gas Velocity (M/sec)	:	23.74		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2627979		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	40.4
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	936.6
			75.2	TPD	55.7
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	268.5


* Results are corrected with 6% oxygen

End of the Report

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Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC519320000000429F			Date: 25.04.2020		
TEST REPORT					
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1	Sampling Location	:	Unit -1		
2	Date of Sampling	:	23.04.2020		
3	Time of Sampling	:	11:55 AM		
4	Load (MW)	:	630		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	133		
9	Flue Gas Velocity (M/sec)	:	24.01		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2625589		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	41.7
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	900.3
			75.2	TPD	56.7
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	278.9

* Results are corrected with 6% oxygen

End of the Report

Note Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No : TC519320000000501F

Date 31.05.2020

Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911					
Sample Particulars :		Ambient Air Quality (Plant)					
Sample Collected by :		Environment Dept. APML					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting Date	Parameters			
				PM 10	PM 2.5	SO2	NOx
				µg/m3	µg/m3	µg/m3	µg/m3
AAQ 1	Near AWRS	04.05.2020	05.05.2020	76.7	29.5	12.5	29.5
		08.05.2020	09.05.2020	92.6	35.1	14.7	25.3
		11.05.2020	12.05.2020	84.9	38.7	13.1	26.5
		15.05.2020	16.05.2020	85.2	32.5	11.7	24.7
		18.05.2020	19.05.2020	82.0	31.2	13.5	30.1
		22.05.2020	23.05.2020	74.9	28.8	10.4	22.8
		25.05.2020	26.05.2020	90.2	39.2	7.8	28.3
		29.05.2020	30.05.2020	78.3	21.7	14.5	30.1
AAQ 2	Near Brick Plant	04.05.2020	05.05.2020	66.6	25.5	10.2	20.4
		08.05.2020	09.05.2020	75.5	30.7	11.7	21.6
		11.05.2020	12.05.2020	71.3	24.4	12.9	24.1
		15.05.2020	16.05.2020	78.6	22.4	10.0	27.1
		18.05.2020	19.05.2020	77.8	21.4	9.2	16.8
		22.05.2020	23.05.2020	68.8	29.2	8.2	22.2
		25.05.2020	26.05.2020	81.8	37.2	7.0	19.2
		29.05.2020	30.05.2020	79.3	24.6	8.6	18.6
AAQ 3	China Colony	04.05.2020	05.05.2020	96.8	41.8	14.1	28.9
		08.05.2020	09.05.2020	84.0	37.0	12.9	22.8
		11.05.2020	12.05.2020	95.0	42.2	15.7	30.1
		15.05.2020	16.05.2020	83.4	35.4	11.9	28.9
		18.05.2020	19.05.2020	77.7	28.0	10.6	27.7
		22.05.2020	23.05.2020	89.6	34.0	14.3	31.9
		25.05.2020	26.05.2020	80.0	27.2	13.9	32.5
		29.05.2020	30.05.2020	78.4	30.4	9.8	19.8
NAAQMS Standard				100	60	80	

End of the Report

Note: Tested results are well within the permissible limits of National Ambient Air Quality Monitoring Stanadard (NAAQMS)

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2. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.



Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/FQ1

URL No. : URLTC51932000000523F

Date: 31.05.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Plant)
Sample Collected by :	Environment Dept. APML
Date of Sampling:	30.05.2020

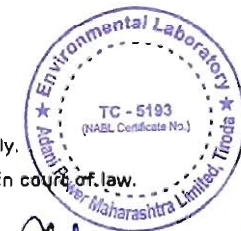
Test Report

S. No	Locations	Day Time in dB (A) (6.00 a.m. to 10.00 p.m.)	Night Time in dB (A) (10.00 p.m. to 06.00 a.m.)
1	Near Shanti Niketan I II & III	43.4	40.2
2	Near Labour Hutment	63.8	53.4
3	Near Store Area	64.5	45.5
4	Gate No.1	57.1	43.0
5	Gate No.2	57.3	50.3
6	Gate No.3	63.6	51.8
7	Near OHC	64.6	58.5
8	Railway Siding	65.8	55.4
9	Near Reservoir 2	52.6	40.1
10	Near Ash Water Recovery Pump House	61.1	51.5
11	In China Colony	41.1	37.8
CPCB Standards (Industrial Area)		75	70

*** End Of the Report***

Note: Tested results are well within the permissible limits of MPCB / CPCB.

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(Signature) 31/05/20
Authorized Signatory
(Technical Manager)

TC51932000000529F		Date: 16.05.2020			
TEST REPORT					
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1	Sampling Location	:	Unit -1		
2	Date of Sampling	:	14.05.2020		
3	Time of Sampling	:	10:55 AM		
4	Load (MW)	:	527		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	122		
9	Flue Gas Velocity (M/sec)	:	22.33		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :	2509447			
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	44.5
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	933.2
			75.2	TPD	56
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	267.6

* Results are corrected with 6% oxygen

End of the Report

Note Tested results are well within the permissible limits of MPCB.

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(Signature)
16/05/20
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC519320000000530F		Date: 16.05.2020
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911	
Sample Particulars :	Stack Monitoring	
Sample Collected by :	Environment Dept. APML	
1 Sampling Location	:	Unit -2
2 Date of Sampling	:	14.05.2020
3 Time of Sampling	:	11:30 AM
4 Load (MW)	:	630
5 Height of Stack (Meter)	:	275
6 Diameter of Stack (Meter)	:	7.4
7 Type of Fuel	:	Coal
8 Flue Gas Temperature (^o C)	:	127
9 Flue Gas Velocity (M/sec)	:	24.20
10 Flow of Exit Gas at NTP (NM ³ /Hr) :		2685723

Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	43.8
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	942.7
			75.2	TPD	57.0
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	270.3

* Results are corrected with 6% oxygen

End of the Report

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(Signature)
 Authorized Signatory
 (Technical Manager)

Format No: APML/ENV-LB/7.8/F01

TC51932000000531F		Date: 16.05.2020			
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept, APML			
1	Sampling Location	:	Unit -3		
2	Date of Sampling	:	14.05.2020		
3	Time of Sampling	:	12:05 PM		
4	Load (MW)	:	624		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (⁰ C)	:	126		
9	Flue Gas Velocity (M/sec)	:	22.58		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :	:	2512038		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	39.9
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	939.7
			80.2	TPD	54.5
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	273.7

* Results are corrected with 6% oxygen

End of the Report

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(Signature)
 Authorized Signatory
 (Technical Manager)

TC519320000000532F		Date: 30.05.2020			
TEST REPORT					
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -4		
2	Date of Sampling	:	28.05.2020		
3	Time of Sampling	:	11:15 AM		
4	Load (MW)	:	480		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	122		
9	Flue Gas Velocity (M/sec)	:	22.37		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2514232		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	41.9
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	916.6
			80.2	TPD	55.3
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	262.2

* Results are corrected with 6% oxygen

End of the Report

Note Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC519320000000533F		Date: 30.05.2020			
TEST REPORT					
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -5		
2	Date of Sampling	:	28.05.2020		
3	Time of Sampling	:	11:55 AM		
4	Load (MW)	:	444		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	124		
9	Flue Gas Velocity (M/sec)	:	23.27		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2602420		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	39.0
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	902.2
			80.2	TPD	56.3
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	244.4

* Results are corrected with 6% oxygen

End of the Report

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[Signature]
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL:TC51932000000511F

Date: 31.05.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	13.05.2020	Analysis Starting Date	13.05.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APML
Sample Particulars : Treated Effluent Water			
Location of sample : DM Plant N-Pit , ETP Outlet			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					N-pit	ETP Outlet
1	pH Value	---	APHA-23rd -4500- H+B Electrometric Method	5.5-9.0	8.1	7.7
2	TSS	mg / l	APHA-23rd - 2540 D	100	36	42
3	TDS	mg / l	APHA-23rd - 2540 C	2100	363	251
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	250	69	58
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	22	25
6	Oil & Grease	mg / l	APHA-23rd Ed 2017-5520 B Liquid Liquid Partition Gravimetric method	10	BDL	1.1

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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4. # Indicates this parameter is not covered in our NABL scope




 Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL:TC51932000000509F

Date: 31.05.2020

Issued To:	APML,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	13.05.2020	Analysis Starting Date	13.05.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept.
Sample Particulars : Treated Waste Water			
Location of sample : STP -1 & 2 Out Let			

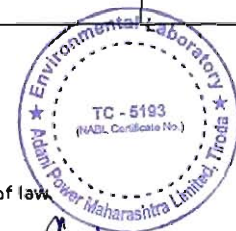
TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					STP-1	STP-2
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.5	7.7
2	TSS	mg / l	APHA-23rd - 2540 D	500	19	36
3	TDS	mg / l	APHA-23rd - 2540 C	2100	294	271
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	100	50	40
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	18	15

End of the Report

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Authorized Signatory (Technical Manager) 31/05/20

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000507F

Date: 31.05.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	13.05.2020	Analysis Starting Date :	13.05.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Cooling tower blowdown (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5.			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	Free Available Chlorine	mg/l	APHA-23rd - 4500-Cl G, DPD Colorimetric Method	0.5	0.1	0.1	0.1	0.2	0.2
2	Phosphate as (PO4)	mg/l	APHA-23rd -4500-P D Stannous Chloride Method	5	2.2	3.1	3.7	2.9	1.9
3	Zinc as (Zn)	mg/l	----	1	BDL	BDL	BDL	BDL	BDL
4	Total Chromium as (Cr)	mg/l	----	0.2	BDL	BDL	BDL	BDL	BDL

End of the Report

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Authorized Signatory (Technical Manager) 31/05/20

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL NO :TC519320000000506F

Date: 31.05.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	13.05.2020	Analysis Starting Date :	13.05.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Condenser Cooling Water (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5			

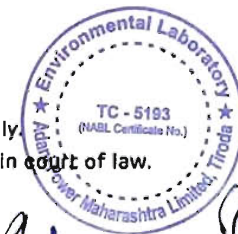
TEST REPORT

Sr no	Parameter	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	pH Value	---	APHA-23rd - 4500-H+B Electrometric Method	6.5-8.5	7.6	7.8	7.7	7.8	7.5
2	Temperature	Deg C	APHA-23rd - 2550 B	---	35	34	34	34	34
3	Free Available Chlorine	PPM	APHA-23rd – 4500-Cl G, DPD Colorimetric Method	0.5	0.2	0.2	0.2	0.1	0.1

End of the Report

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Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000627F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	03.06.2020	Analysis Starting Date :	03.06.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Boiler blowdown (Waste Water)			
Location of sample : Unit-1 & Unit-5			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					U # 1	U # 5
1	TSS	mg / l	APHA-22nd - 2540 D	100	5.0	7.0
2	Oil & Grease	mg / l	APHA-22nd Ed 2012- 5520 B Liquid Liquid Partition Gravimetric method	10	BDL	BDL
3	Copper (Total)	mg/l	----	1	BDL	BDL
4	Iron (Total)	mg/l	APHA-22nd- 3500-Fe-B	1	BDL	BDL

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000611F	Date: 30.06.2020
------------------------	------------------

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date	10.06.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APML
Sample Particulars : Treated Effluent Water			
Location of sample : DM Plant N-Pit , ETP Outlet			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					N-pit	ETP Outlet
1	pH Value	---	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.5	7.8
2	TSS	mg / l	APHA-23rd - 2540 D	100	14	45
3	TDS	mg / l	APHA-23rd - 2540 C	2100	308	283
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	250	20	50
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	7	14
6	Oil & Grease	mg / l	APHA-23rd Ed 2017-5520 B Liquid Liquid Partition Gravimetric method	10	BDL	0.4

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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4. # Indicates this parameter is not covered in our NABL scope



Authorized Signatory,
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL:TC51932000000609F	Date: 30.06.2020
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Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date	10.06.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept.
Sample Particulars : Treated Waste Water			
Location of sample : STP -1 & 2 Out Let			

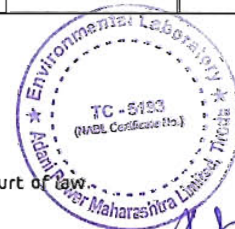
TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					STP-1	STP-2
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.2	7.3
2	TSS	mg / l	APHA-23rd - 2540 D	500	38	33
3	TDS	mg / l	APHA-23rd - 2540 C	2100	358	215
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	100	40	48
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	17	14

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL NO :TC519320000000606F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date :	10.06.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Condenser Cooling Water (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5			

TEST REPORT

Sr no	Parameter	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	pH Value	---	APHA-23rd - 4500-H+B Electrometric Method	6.5-8.5		7.6	7.5	7.4	
2	Temperature	Deg C	APHA-23rd - 2550 B	---	UNIT UNDER SHUT DOWN	33	33	34	UNIT UNDER SHUT DOWN
3	Free Available Chlorine	PPM	APHA-23rd - 4500-Cl G, DPD Colorimetric Method	0.5		0.1	0.1	0.2	

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
(Technical Manager)

[Signature]
30/06/20

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000607F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date :	10.06.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Cooling tower blowdown (Waste Water)			
Location of sample : Unit1, Unit-2, Unit-3, Unit-4 & Unit-5.			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	Free Available Chlorine	mg/l	APHA-23rd - 4500-Cl G, DPD Colorimetric Method	0.5	0.2	0.2	0.3	UNIT UNDER SHUT DOWN	
2	Phosphate as (PO4)	mg/l	APHA-23rd -4500-P D Stannous Chloride Method	5	2.1	2.7	3.1		
3	Zinc as (Zn)	mg/l	----	1	BDL	BDL	BDL		
4	Total Chromium as (Cr)	mg/l	----	0.2	BDL	BDL	BDL		

End of the Report

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Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No : TC51932000000601F

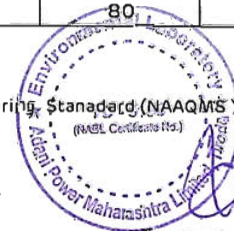
Date 30.06.2020

Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Plant)					
Sample Collected by :		Environment Dept. APML					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting Date	Parameters			
				PM 10 µg/m ³	PM 2.5 µg/m ³	SO ₂ µg/m ³	NO _x µg/m ³
AAQ 1	Near AWRS	01.06.2020	02.06.2020	64.2	27.5	8.6	15.6
		05.06.2020	06.06.2020	61.3	23.0	5.1	12.0
		08.06.2020	09.06.2020	65.2	25.9	5.9	10.8
		12.06.2020	13.06.2020	35.0	13.4	7.6	13.2
		15.06.2020	16.06.2020	41.0	17.4	6.5	17.4
		19.06.2020	20.06.2020	63.6	20.2	8.0	16.2
		22.06.2020	23.06.2020	62.0	28.0	6.3	15.0
		26.06.2020	24.06.2020	72.4	33.4	10.8	19.2
		29.06.2020	30.06.2020	49.2	13.2	9.2	18.0
AAQ 2	Near Brick Plant	01.06.2020	02.06.2020	42.8	20.3	7.8	12.0
		05.06.2020	06.06.2020	54.8	25.0	9.8	16.2
		08.06.2020	09.06.2020	64.9	22.9	7.0	13.8
		12.06.2020	13.06.2020	59.8	21.4	6.1	10.8
		15.06.2020	16.06.2020	57.4	17.8	10.4	15.0
		19.06.2020	20.06.2020	48.6	15.9	6.5	11.4
		22.06.2020	23.06.2020	39.1	16.8	8.0	14.4
		26.06.2020	24.06.2020	62.5	25.9	9.2	13.8
		29.06.2020	30.06.2020	47.6	18.7	5.1	10.2
AAQ 3	China Colony	01.06.2020	02.06.2020	57.5	16.9	7.0	14.4
		05.06.2020	06.06.2020	62.7	25.2	11.0	18.0
		08.06.2020	09.06.2020	52.0	19.1	8.0	11.4
		12.06.2020	13.06.2020	35.4	11.2	10.0	17.4
		15.06.2020	16.06.2020	56.4	11.9	12.1	16.2
		19.06.2020	20.06.2020	48.0	18.3	6.5	12.0
		22.06.2020	23.06.2020	33.1	13.3	11.2	16.2
		26.06.2020	24.06.2020	66.0	20.6	10.4	26.5
		29.06.2020	30.06.2020	45.4	15.6	8.8	10.8
NAAQMS Standard				100	60	80	80

End of the Report

Note: Tested results are well within the permissible limits of National Ambient Air Quality Monitoring Standard (NAAQMS)

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(Signature)
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No. : URLTC519320000000623F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Plant)
Sample Collected by :	Environment Dept. APML
Date of Sampling:	20.06.2020

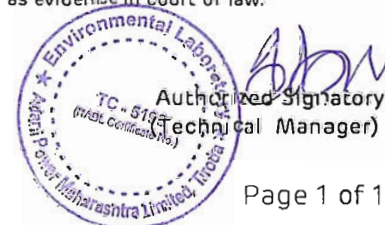
Test Report

S. No	Locations	Day Time in dB (A)	Night Time in dB (A)
		(6.00 a.m. to 10.00 p.m.)	(10.00 p.m. to 06.00 a.m.)
1	Near Shanti Niketan I II & III	57.7	47.3
2	Near Labour Hutment	62.8	55.4
3	Near Store Area	68.2	51.1
4	Gate No.1	55.2	49.0
5	Gate No.2	66.1	58.3
6	Gate No.3	71.2	56.7
7	Near OHC	56.0	48.8
8	Railway Siding	67.3	60.5
9	Near Reservoir 2	59.7	48.5
10	Near Ash Water Recovery Pump House	61.5	50.4
11	In China Colony	41.1	38.5
CPCB Standards (Industrial Area)		75	70

*** End Of the Report***

Note: Tested results are well within the permissible limits of MPCB / CPCB.

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Page 1 of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC51932000000628F		Date: 13.06.2020			
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -2		
2	Date of Sampling	:	11.06.2020		
3	Time of Sampling	:	12:15 PM		
4	Load (MW)	:	606		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (^o C)	:	124		
9	Flue Gas Velocity (M/sec)	:	22.97		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2568194		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	42.2
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	937.9
			75.2	TPD	57.4
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	268.3


* Results are corrected with 6% oxygen

End of the Report

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Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC51932000000629F		Date: 13.06.2020			
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -3		
2	Date of Sampling	:	11.06.2020		
3	Time of Sampling	:	11:40 AM		
4	Load (MW)	:	590		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	126		
9	Flue Gas Velocity (M/sec)	:	23.55		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2620521		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	43.0
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	947.3
			80.2	TPD	58.4
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	280.9

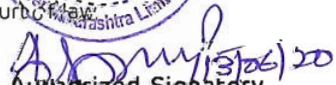
* Results are corrected with 6% oxygen

End of the Report

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 Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

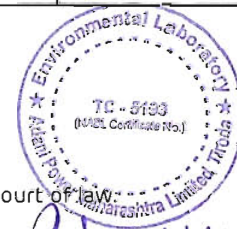
TC51932000000630F		Date: 13.06.2020			
TEST REPORT					
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1	Sampling Location	:	Unit -4		
2	Date of Sampling	:	11.06.2020		
3	Time of Sampling	:	10:30 AM		
4	Load (MW)	:	590		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	119		
9	Flue Gas Velocity (M/sec)	:	23.92		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2709417		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	39.5
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	941.6
			80.2	TPD	61.2
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	265.7

* Results are corrected with 6% oxygen

End of the Report

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(Signature)
Authorized Signatory
(Technical Manager)

Page 1 of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000627F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	03.06.2020	Analysis Starting Date :	03.06.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Boiler blowdown (Waste Water)			
Location of sample : Unit-1 & Unit-5			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					U # 1	U # 5
1	TSS	mg / l	APHA-22nd - 2540 D	100	5.0	7.0
2	Oil & Grease	mg / l	APHA-22nd Ed 2012- 5520 B Liquid Liquid Partition Gravimetric method	10	BDL	BDL
3	Copper (Total)	mg/l	----	1	BDL	BDL
4	Iron (Total)	mg/l	APHA-22nd- 3500-Fe-B	1	BDL	BDL

End of the Report

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Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000611F	Date: 30.06.2020
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Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date	10.06.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APML
Sample Particulars : Treated Effluent Water			
Location of sample : DM Plant N-Pit , ETP Outlet			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					N-pit	ETP Outlet
1	pH Value	---	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.5	7.8
2	TSS	mg / l	APHA-23rd - 2540 D	100	14	45
3	TDS	mg / l	APHA-23rd - 2540 C	2100	308	283
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	250	20	50
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	7	14
6	Oil & Grease	mg / l	APHA-23rd Ed 2017-5520 B Liquid Liquid Partition Gravimetric method	10	BDL	0.4

End of the Report

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4. # Indicates this parameter is not covered in our NABL scope



Authorized Signatory,
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL:TC51932000000609F	Date: 30.06.2020
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Issued To:	APML,Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date	10.06.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept.
Sample Particulars : Treated Waste Water			
Location of sample : STP -1 & 2 Out Let			

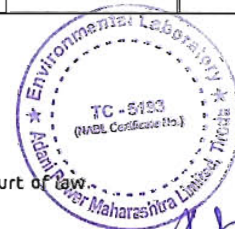
TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					STP-1	STP-2
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.2	7.3
2	TSS	mg / l	APHA-23rd - 2540 D	500	38	33
3	TDS	mg / l	APHA-23rd - 2540 C	2100	358	215
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	100	40	48
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	17	14

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL NO :TC519320000000606F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date :	10.06.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Condenser Cooling Water (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5			

TEST REPORT

Sr no	Parameter	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	pH Value	---	APHA-23rd - 4500-H+B Electrometric Method	6.5-8.5		7.6	7.5	7.4	
2	Temperature	Deg C	APHA-23rd - 2550 B	---	UNIT UNDER SHUT DOWN	33	33	34	UNIT UNDER SHUT DOWN
3	Free Available Chlorine	PPM	APHA-23rd - 4500-Cl G, DPD Colorimetric Method	0.5		0.1	0.1	0.2	

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000607F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	10.06.2020	Analysis Starting Date :	10.06.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Cooling tower blowdown (Waste Water)			
Location of sample : Unit1, Unit-2, Unit-3, Unit-4 & Unit-5.			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	Free Available Chlorine	mg/l	APHA-23rd - 4500-Cl G, DPD Colorimetric Method	0.5	0.2	0.2	0.3	UNIT UNDER SHUT DOWN	
2	Phosphate as (PO4)	mg/l	APHA-23rd -4500-P D Stannous Chloride Method	5	2.1	2.7	3.1		
3	Zinc as (Zn)	mg/l	----	1	BDL	BDL	BDL		
4	Total Chromium as (Cr)	mg/l	----	0.2	BDL	BDL	BDL		

End of the Report

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Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No : TC51932000000601F

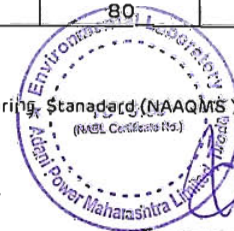
Date 30.06.2020

Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Plant)					
Sample Collected by :		Environment Dept. APML					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting Date	Parameters			
				PM 10 µg/m ³	PM 2.5 µg/m ³	SO ₂ µg/m ³	NO _x µg/m ³
AAQ 1	Near AWRS	01.06.2020	02.06.2020	64.2	27.5	8.6	15.6
		05.06.2020	06.06.2020	61.3	23.0	5.1	12.0
		08.06.2020	09.06.2020	65.2	25.9	5.9	10.8
		12.06.2020	13.06.2020	35.0	13.4	7.6	13.2
		15.06.2020	16.06.2020	41.0	17.4	6.5	17.4
		19.06.2020	20.06.2020	63.6	20.2	8.0	16.2
		22.06.2020	23.06.2020	62.0	28.0	6.3	15.0
		26.06.2020	24.06.2020	72.4	33.4	10.8	19.2
		29.06.2020	30.06.2020	49.2	13.2	9.2	18.0
AAQ 2	Near Brick Plant	01.06.2020	02.06.2020	42.8	20.3	7.8	12.0
		05.06.2020	06.06.2020	54.8	25.0	9.8	16.2
		08.06.2020	09.06.2020	64.9	22.9	7.0	13.8
		12.06.2020	13.06.2020	59.8	21.4	6.1	10.8
		15.06.2020	16.06.2020	57.4	17.8	10.4	15.0
		19.06.2020	20.06.2020	48.6	15.9	6.5	11.4
		22.06.2020	23.06.2020	39.1	16.8	8.0	14.4
		26.06.2020	24.06.2020	62.5	25.9	9.2	13.8
		29.06.2020	30.06.2020	47.6	18.7	5.1	10.2
AAQ 3	China Colony	01.06.2020	02.06.2020	57.5	16.9	7.0	14.4
		05.06.2020	06.06.2020	62.7	25.2	11.0	18.0
		08.06.2020	09.06.2020	52.0	19.1	8.0	11.4
		12.06.2020	13.06.2020	35.4	11.2	10.0	17.4
		15.06.2020	16.06.2020	56.4	11.9	12.1	16.2
		19.06.2020	20.06.2020	48.0	18.3	6.5	12.0
		22.06.2020	23.06.2020	33.1	13.3	11.2	16.2
		26.06.2020	24.06.2020	66.0	20.6	10.4	26.5
		29.06.2020	30.06.2020	45.4	15.6	8.8	10.8
NAAQMS Standard				100	60	80	80

End of the Report

Note: Tested results are well within the permissible limits of National Ambient Air Quality Monitoring Standard (NAAQMS)

1. The report is referring only to the tested sample and for applicable parameter.
2. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.



Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No. : URLTC519320000000623F

Date: 30.06.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Plant)
Sample Collected by :	Environment Dept. APML
Date of Sampling:	20.06.2020

Test Report

S. No	Locations	Day Time in dB (A)	Night Time in dB (A)
		(6.00 a.m. to 10.00 p.m.)	(10.00 p.m. to 06.00 a.m.)
1	Near Shanti Niketan I II & III	57.7	47.3
2	Near Labour Hutment	62.8	55.4
3	Near Store Area	68.2	51.1
4	Gate No.1	55.2	49.0
5	Gate No.2	66.1	58.3
6	Gate No.3	71.2	56.7
7	Near OHC	56.0	48.8
8	Railway Siding	67.3	60.5
9	Near Reservoir 2	59.7	48.5
10	Near Ash Water Recovery Pump House	61.5	50.4
11	In China Colony	41.1	38.5
CPCB Standards (Industrial Area)		75	70

*** End Of the Report***

Note: Tested results are well within the permissible limits of MPCB / CPCB.

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Page 1 of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC51932000000628F		Date: 13.06.2020			
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -2		
2	Date of Sampling	:	11.06.2020		
3	Time of Sampling	:	12:15 PM		
4	Load (MW)	:	606		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (^o C)	:	124		
9	Flue Gas Velocity (M/sec)	:	22.97		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2568194		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	42.2
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	937.9
			75.2	TPD	57.4
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	268.3

* Results are corrected with 6% oxygen

End of the Report

Note Tested results are well within the permissible limits of MPCB.

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(Signature)
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC51932000000629F		Date: 13.06.2020			
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -3		
2	Date of Sampling	:	11.06.2020		
3	Time of Sampling	:	11:40 AM		
4	Load (MW)	:	590		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	126		
9	Flue Gas Velocity (M/sec)	:	23.55		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2620521		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	43.0
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	947.3
			80.2	TPD	58.4
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	280.9


* Results are corrected with 6% oxygen

End of the Report

Note Tested results are well within the permissible limits of MPCB.

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 Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

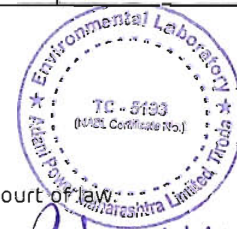
TC51932000000630F		Date: 13.06.2020			
TEST REPORT					
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1	Sampling Location	:	Unit -4		
2	Date of Sampling	:	11.06.2020		
3	Time of Sampling	:	10:30 AM		
4	Load (MW)	:	590		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	119		
9	Flue Gas Velocity (M/sec)	:	23.92		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2709417		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	39.5
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	941.6
			80.2	TPD	61.2
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	265.7

* Results are corrected with 6% oxygen

End of the Report

Note Tested results are well within the permissible limits of MPCB.

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(Signature)
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL NO :TC51932000000805F

Date: 31.08.2020

Issued To:	APML,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	12.08.2020	Analysis Starting Date :	12.08.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Condenser Cooling Water (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5			

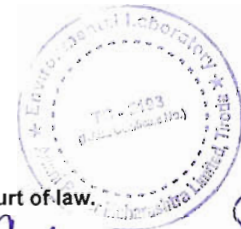
TEST REPORT

Sr no	Parameter	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	pH Value	---	APHA-23rd - 4500-H+B Electrometric Method	6.5-8.5		7.9	8.1		
2	Temperature	Deg C	APHA-23rd - 2550 B	---	UNIT UNDER SHUT DOWN	33	32	UNIT UNDER SHUT DOWN	UNIT UNDER SHUT DOWN
3	Free Available Chlorine	PPM	APHA-23rd – 4500-Cl G, DPD Colorimetric Method	0.5		0.1	0.1		

***End of the Report**

Note: Tested results are well within the permissible limits of MPCB.

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3. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.



(Handwritten Signature)
31/08/20

Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000806F

Date: 31.08.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	12.08.2020	Analysis Starting Date :	12.08.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Cooling tower blowdown (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5.			

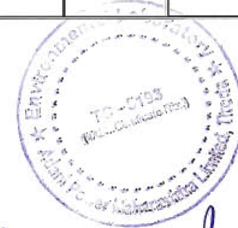
TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	Free Available Chlorine	mg/l	APHA-23rd – 4500-Cl G, DPD Colorimetric Method	0.5	UNIT UNDER SHUT DOWN	0.2	0.2	UNIT UNDER SHUT DOWN	UNIT UNDER SHUT DOWN
2	Phosphate as (PO4)	mg/l	APHA-23rd -4500-P D Stannous Chloride Method	5		0.5	0.9		
3	Zinc as (Zn)	mg/l	---	1		BDL	BDL		
4	Total Chromium as (Cr)	mg/l	---	0.2		BDL	BDL		

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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(Handwritten Signature)
31/08/20

**Authorized Signatory
(Technical Manager)**

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000807F	Date: 31.08.2020
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Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	12.08.2020	Analysis Starting Date	12.08.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APML
Sample Particulars : Treated Effluent Water			
Location of sample : DM Plant N-Pit , ETP Outlet			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					N-pit	ETP Outlet
1	pH Value	---	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	8.1	7.8
2	TSS	mg / l	APHA-23rd - 2540 D	100	31	34
3	TDS	mg / l	APHA-23rd - 2540 C	2100	354	204
4	COD	mg / l	APHA-23rd Ed 2017- 5220B Open Reflux Method	250	40	48
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3- days at 27 °C	30	16	25
6	Oil & Grease	mg / l	APHA-23rd Ed 2017- 5520 B Liquid Liquid Partition Gravimetric method	10	BDL	3.0

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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4. # Indicates this parameter is not covered in our NABL scope



**Authorized Signatory
(Technical Manager)**

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000809F	Date: 31.08.2020
------------------------	------------------

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	12.08.2020	Analysis Starting Date	12.08.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept.
Sample Particulars : Treated Waste Water			
Location of sample : STP -1 & 2 Out Let			

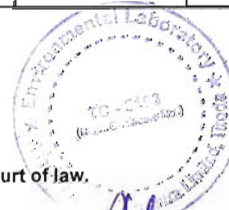
TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					STP-1	STP-2
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	5.5-9.0	7.5	7.4
2	TSS	mg / l	APHA-23rd - 2540 D	500	26	18
3	TDS	mg / l	APHA-23rd - 2540 C	2100	207	197
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	100	50	60
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	22	24

End of the Report

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4. # Indicates this parameter is not covered in our NABL scope



(Signature)
 Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No. : URLTC51932000000821F

Date: 31.08.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911
Sample Particulars :	Ambient Noise Level (Plant)
Sample Collected by :	Environment Dept. APML
Date of Sampling:	21.08.2020

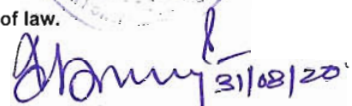
Test Report

S. No	Locations	Day Time in dB (A)	Night Time in dB (A)
		(6.00 a.m. to 10.00 p.m.)	(10.00 p.m. to 06.00 a.m.)
1	Near Shanti Niketan I II & III	42.9	40.0
2	Near Labour Hutment	63.8	57.2
3	Near Store Area	63.1	58.4
4	Gate No.1	57.7	52.0
5	Gate No.2	58.1	51.1
6	Gate No.3	60.7	53.3
7	Near OHC	60.6	56.4
8	Railway Siding	65.6	60.4
9	Near Reservoir 2	55.0	50.7
10	Near Ash Water Recovery Pump House	52.1	49.4
11	In China Colony	39.7	37.7
CPCB Standards (Industrial Area)		75	70

*** End Of the Report***

Note: Tested results are well within the permissible limits of MPCB / CPCB.

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Authorized Signatory
(Technical Manager)

Page 1 of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No : TC51932000000801F

Date 01.09.2020

Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Plant)					
Sample Collected by :		Environment Dept. APML					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting Date	Parameters			
				PM 10	PM 2.5	SO2	NOx
				µg/m3	µg/m3	µg/m3	µg/m3
AAQ 1	Near AWRS	03.08.2020	04.08.2020	19.4	10.6	9.6	12.0
		07.08.2020	08.08.2020	29.1	14.5	11.7	16.2
		10.08.2020	11.08.2020	24.7	12.7	7.6	12.6
		13.08.2020	14.08.2020	20.8	16.9	8.2	11.4
		17.08.2020	18.08.2020	24.9	19.6	10.0	13.8
		20.08.2020	21.08.2020	25.5	15.8	6.7	16.2
		24.08.2020	25.08.2020	24.7	17.3	9.4	13.2
		29.08.2020	30.08.2020	22.4	14.4	8.0	11.4
AAQ 2	Near Brick Plant	03.08.2020	04.08.2020	22.9	11.5	7.8	14.4
		07.08.2020	08.08.2020	25.6	16.8	6.7	12.6
		10.08.2020	11.08.2020	26.5	15.5	8.6	11.4
		13.08.2020	14.08.2020	23.9	17.2	9.0	13.2
		17.08.2020	18.08.2020	28.7	14.8	5.7	12.0
		20.08.2020	21.08.2020	27.3	16.7	7.4	15.6
		24.08.2020	25.08.2020	30.8	17.3	9.2	16.2
		29.08.2020	30.08.2020	29.2	23.1	8.4	10.8
AAQ 3	China Colony	03.08.2020	04.08.2020	24.1	18.1	8.6	15.6
		07.08.2020	08.08.2020	28.7	19.5	7.2	14.4
		10.08.2020	11.08.2020	31.8	23.9	6.5	15.6
		13.08.2020	14.08.2020	29.9	12.7	8.0	16.8
		17.08.2020	18.08.2020	30.2	26.5	5.9	13.2
		20.08.2020	21.08.2020	22.2	15.8	6.1	12.6
		24.08.2020	25.08.2020	28.9	17.6	8.4	17.4
		29.08.2020	30.08.2020	27.9	12.4	9.2	15.0
NAAQMS Standard				100	60	80	80

End of the Report

Note: Tested results are well within the permissible limits of National Ambient Air Quality Monitoring Stanadard (NAAQMS)

- The report is referring only to the tested sample and for applicable parameter.
- This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.

Authorized Signatory
(Technical Manager)

TC51932000000828F		Date: 24.08.2020			
Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911				
Sample Particulars :	Stack Monitoring				
Sample Collected by :	Environment Dept. APML				
1	Sampling Location	:	Unit -2		
2	Date of Sampling	:	20.08.2020		
3	Time of Sampling	:	11:40 AM		
4	Load (MW)	:	655		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (°C)	:	125		
9	Flue Gas Velocity (M/sec)	:	22.86		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2550508		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part-1):1985	50	Mg/Nm ³	44.7
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	959.2
			75.2	TPD	56.5
3	NO _x	IS 11255 (Part 7) 2005	300	Mg/Nm ³	275.0

* Results are corrected with 6% oxygen

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

1. The report is referring only to the tested sample and for applicable parameter.
2. The sample will be destroyed after retention time unless otherwise specified specially.
3. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.




Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

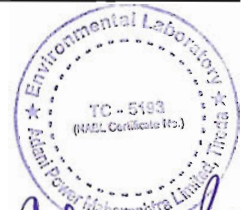
TC51932000000829F			Date: 24.08.2020		
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1 Sampling Location		:		Unit -3	
2 Date of Sampling		:		20.08.2020	
3 Time of Sampling		:		12:26 PM	
4 Load (MW)		:		650	
5 Height of Stack (Meter)		:		275	
6 Diameter of Stack (Meter)		:		7.4	
7 Type of Fuel		:		Coal	
8 Flue Gas Temperature (°C)		:		126	
9 Flue Gas Velocity (M/sec)		:		23.09	
10 Flow of Exit Gas at NTP (NM³/Hr)		:		2568814	
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	43.2
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	982.1
			80.2	TPD	57.8
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	290.8

* Results are corrected with 6% oxygen

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

1. The report is referring only to the tested sample and for applicable parameter.
2. The sample will be destroyed after retention time unless otherwise specified specially.
3. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.



[Signature]
**Authorized Signatory
 (Technical Manager)**

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC51932000000926F		Date: 30.09.2020			
TEST REPORT					
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1	Sampling Location	:	Unit -4		
2	Date of Sampling	:	17.09.2020		
3	Time of Sampling	:	2:15 PM		
4	Load (MW)	:	458		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (⁰ C)	:	122		
9	Flue Gas Velocity (M/sec)	:	22.37		
10	Flow of Exit Gas at NTP (NM ³ /Hr)	:	2514709		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	36
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	874
			80.2	TPD	52.8
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	250
4	Mercury	USEPA - 0060	0.03	Mg/Nm ³	0.019

* Results are corrected with 6% oxygen

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

1. The report is referring only to the tested sample and for applicable parameter.
2. The sample will be destroyed after retention time unless otherwise specified specially.
3. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.
4. Mercury monitoring & analysis is being done on quarterly basis through third party.

03/10/20
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC51932000000925F		Date: 30.09.2020			
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1	Sampling Location	:	Unit -3		
2	Date of Sampling	:	28.09.2020		
3	Time of Sampling	:	3:40 PM		
4	Load (MW)	:	612		
5	Height of Stack (Meter)	:	275		
6	Diameter of Stack (Meter)	:	7.4		
7	Type of Fuel	:	Coal		
8	Flue Gas Temperature (^o C)	:	126		
9	Flue Gas Velocity (M/sec)	:	23.04		
10	Flow of Exit Gas at NTP (NM ³ /Hr) :		2563142		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	42.6
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	967.7
			80.2	TPD	58.0
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	291.1
4	Mercury	USEPA - 0060	0.03	Mg/Nm ³	0.02

* Results are corrected with 6% oxygen

End of the Report

Note: Tested results are well within the permissible limits of MPCB.

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3. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.
4. Mercury monitoring & analysis is being done on quarterly basis through third party.



**Authorized Signatory
(Technical Manager)**

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

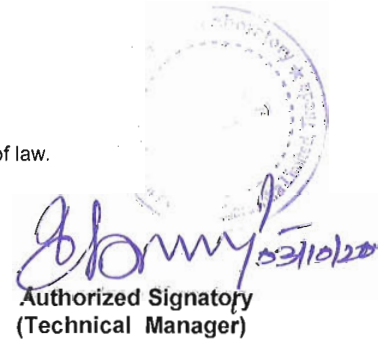
TC51932000000924F		Date: 30.09.2020			
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1 Sampling Location		:	Unit -1		
2 Date of Sampling		:	28.09.2020		
3 Time of Sampling		:	3:05 PM		
4 Load (MW)		:	465		
5 Height of Stack (Meter)		:	275		
6 Diameter of Stack (Meter)		:	7.4		
7 Type of Fuel		:	Coal		
8 Flue Gas Temperature (°C)		:	120		
9 Flue Gas Velocity (M/sec)		:	23.24		
10 Flow of Exit Gas at NTP (NM ³ /Hr)		:	2624850		
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results *
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	48.0
2	SO ₂	IS 11255 (Part 2) 1985	1210	Mg/Nm ³	941.6
			75.2	TPD	57.0
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	278.7
4	Mercury	USEPA - 0060	0.03	Mg/Nm ³	0.019

* Results are corrected with 6% oxygen

End of the Report

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**Authorized Signatory
(Technical Manager)**

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

TC51932000000927F		Date: 30.09.2020			
TEST REPORT					
Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911			
Sample Particulars :		Stack Monitoring			
Sample Collected by :		Environment Dept. APML			
1 Sampling Location :		Unit -5			
2 Date of Sampling :		17.09.2020			
3 Time of Sampling :		2:50 PM			
4 Load (MW) :		460			
5 Height of Stack (Meter) :		275			
6 Diameter of Stack (Meter) :		7.4			
7 Type of Fuel :		Coal			
8 Flue Gas Temperature (⁰ C) :		123			
9 Flue Gas Velocity (M/sec) :		23.28			
10 Flow of Exit Gas at NTP (NM³/Hr) :		2609841			
Sr. No	Test Parameters	Test Method	MPCB Standards	Units	Results
1	PM	IS 11255 (Part- 1):1985	50	Mg/Nm ³	41
2	SO ₂	IS 11255 (Part 2) 1985	1292	Mg/Nm ³	887
			80.2	TPD	55.6
3	NOx	IS 11255 (Part 7) 2005	300	Mg/Nm ³	258
4	Mercury	USEPA - 0060	0.03	Mg/Nm ³	0.02

* Results are corrected with 6% oxygen

End of the Report

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4. Mercury monitoring & analysis is being done on quarterly basis through third party.



(Signature)
Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL No : TC519320000000901F

Date 30.09.2020

Issued To:		APML,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Plant)					
Sample Collected by :		Environment Dept. APML					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting Date	Parameters			
				PM 10	PM 2.5	SO2	NOx
				µg/m3	µg/m3	µg/m3	µg/m3
AAQ 1	Near AWRS	04.09.2020	05.09.2020	56.2	17.9	10.2	19.8
		07.09.2020	08.09.2020	51.8	23.7	8.0	18.6
		10.09.2020	11.09.2020	58.3	27.2	5.7	17.4
		14.09.2020	15.09.2020	35.7	24.3	6.3	16.8
		17.09.2020	18.09.2020	32.6	26.6	9.4	20.4
		21.09.2020	22.09.2020	38.8	21.0	8.4	18.0
		24.09.2020	25.09.2020	47.4	19.0	7.2	14.4
AAQ 2	Near Brick Plant	03.08.2020	05.09.2020	55.2	17.3	7.2	15.6
		07.08.2020	08.09.2020	40.2	28.9	6.3	10.2
		10.08.2020	11.09.2020	39.9	25.8	9.0	18.6
		13.08.2020	15.09.2020	59.3	18.5	8.4	15.0
		17.08.2020	18.09.2020	39.8	14.6	10.0	19.2
		20.08.2020	22.09.2020	42.2	23.2	6.7	19.8
		24.08.2020	25.09.2020	50.6	22.7	7.6	14.4
AAQ 3	China Colony	03.08.2020	05.09.2020	56.4	27.4	8.2	13.8
		07.08.2020	08.09.2020	58.4	25.9	7.4	14.4
		10.08.2020	11.09.2020	46.4	15.4	9.8	16.8
		13.08.2020	15.09.2020	59.3	26.6	10.6	18.0
		17.08.2020	18.09.2020	51.9	22.7	8.2	15.6
		20.08.2020	22.09.2020	46.0	13.9	7.8	13.2
		24.08.2020	25.09.2020	60.6	35.8	11.0	20.4
NAAQMS Standard				100	60	80	80

End of the Report

Note: Tested results are well within the permissible limits of National Ambient Air Quality Monitoring Standard (NAAQMS)

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2. This report is not to be reproducing wholly or in part, and can't be used as evidence in court of law.

Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No-APML/ENV-LB/7,8/F01

URL No. : URLTC51932000000920F

Date: 30.09.2020

Issued To:		APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911	
Sample Particulars :		Ambient Noise Level (Plant)	
Sample Collected by :		Environment Dept. APML	
Date of Sampling:		19.09.2020	
Test Report			
S. No	Locations	Day Time in dB (A)	Night Time in dB (A)
		(6.00 a.m. to 10.00 p.m.)	(10.00 p.m. to 06.00 a.m.)
1	Near Shanti Niketan I II & III	41.8	39.9
2	Near Labour Hutment	61.5	58.1
3	Near Store Area	54.3	49.7
4	Gate No.1	53.2	47.8
5	Gate No.2	64.4	50.0
6	Gate No.3	53.4	50.6
7	Near OHC	61.3	54.2
8	Railway Siding	64.9	59.2
9	Near Reservoir 2	59.3	51.1
10	Near Ash Water Recovery Pump House	64.3	54.2
11	In China Colony	40.7	38.0
CPCB Standards (Industrial Area)		75	70

*** End Of the Report***

Note: Tested results are well within the permissible limits of MPCB / CPCB.

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 Authorized Signatory
 (Technical Manager)

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000915F

Date: 30.09.2020

Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	23.09.2020	Analysis Starting Date :	23.09.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Cooling tower blowdown (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5.			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	Free Available Chlorine	mg/l	APHA-23rd – 4500-Cl ₂ G, DPD Colorimetric Method	0.5	0.2	Unit Under Shut Down	0.2	0.1	0.1
2	Phosphate as (PO ₄)	mg/l	APHA-23rd -4500-P D Stannous Chloride Method	5	1.5		0.9	1.8	1.1
3	Zinc as (Zn)	mg/l	----	1	BDL		BDL	BDL	BDL
4	Total Chromium as (Cr)	mg/l	----	0.2	BDL		BDL	BDL	BDL

End of the Report

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[Signature]

Authorized Signatory
(Technical Manager)

03/10/20

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL: TC51932000000916F	Date: 30.09.2020
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Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	23.09.2020	Analysis Starting Date	23.09.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APML
Sample Particulars : Treated Effluent Water			
Location of sample : DM Plant N-Pit , ETP Outlet			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					N-pit	ETP Outlet
1	pH Value	---	APHA-23rd -4500-H+B Electrometric Method	5,5-9.0	8.2	7.9
2	TSS	mg / l	APHA-23rd - 2540 D	100.0	23	12
3	TDS	mg / l	APHA-23rd - 2540 C	2100.0	187	166
4	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	250.0	50	20
5	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30.0	15	10
6	Oil & Grease	mg / l	APHA-23rd Ed 2017-5520 B Liquid Liquid Partition Gravimetric method	10.0	0.3	1.4

End of the Report

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4. # Indicates this parameter is not covered in our NABL scope



Authorized Signatory (Technical Manager) 03/10/20

Page 1 Of 1

ADANI POWER MAHARASHTRA LIMITED, TIRODA

Format No: APML/ENV-LB/7.8/F01

URL NO :TC519320000000914F

Date: 30.09.2020

Issued To:	APML,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	23.09.2020	Analysis Starting Date :	23.09.2020
Quantity received	1 Ltr / Sample	Sampled by :	Environment Dept. APML
Sample Particulars : Condenser Cooling Water (Waste Water)			
Location of sample : Unit1,Unit-2,Unit-3,Unit-4 & Unit-5			

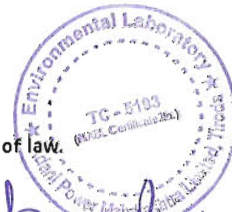
TEST REPORT

Sr no	Parameter	Unit	Test Methods	MPCB Standards	Results				
					U # 1	U # 2	U # 3	U # 4	U # 5
1	pH Value	---	APHA-23rd - 4500-H+B Electrometric Method	6.5-8.5	7.9	Unit Under Shut Down	7.6	8.1	8.0
2	Temperature	Deg C	APHA-23rd - 2550 B	Not to exceed 5°C than that of intake water	34.0		33.0	35.0	32.0
3	Free Available Chlorine	PPM	APHA-23rd – 4500-Cl G, DPD Colorimetric Method	0.5	0.2		0.2	0.1	0.1

End of the Report

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Abhinav Singh
 Authorized Signatory
 (Technical Manager)

URL: TC51932000000918F	Date: 30.09.2020
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Issued To:	APML, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	23.09.2020	Analysis Starting Date	23.09.2020
Quantity received	3 Lit /Sample	Sampled by	Environment Dept.
Sample Particulars : Treated Waste Water			
Location of sample : STP -1 & 2 Out Let			

TEST REPORT						
Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results	
					STP-1	STP-2
1	TSS	mg / l	APHA-23rd - 2540 D	50	25	16
2	COD	mg / l	APHA-23rd Ed 2017-5220B Open Reflux Method	100	40	20
3	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	30	14	11

End of the Report

Note Tested results are well within the permissible limits of MPCB.

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Authorized Signatory
(Technical Manager)

ADANI POWER MAHARASHTRA LIMITED													
5 x 660 MW Thermal Power Plant , Tirora, Gondia (Mh)													
Station: (AAQMS 1,2 and 3)				Report Type: Mean				Time Base: 1Hr		Month- April'20			
Month		AAQMS-1 (Labour Hutment)				AAQMS-2 (China Colony)				AAQMS-3 (Gate no -2)			
		PM 10 ug/m3	PM 2.5 ug/m3	SO2 ug/m3	NOx ug/m3	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm
1-Apr-20	Max	87.1	32.8	13.2	27.6	74.4	25.3	11.3	18.9	88.3	35.7	14.5	30.1
	Min	66.3	21.5	8.1	13.4	52.2	12.2	8.4	11.7	71.2	23.6	7.8	18.2
	Avg	76.7	27.2	10.7	20.5	63.3	18.8	9.9	15.3	79.8	29.7	11.2	24.2
2-Apr-20	Max	85.1	26.3	15.3	23.7	77.6	28.3	10.6	20.4	83.1	33.1	13.6	27.6
	Min	63.9	22.8	9.7	12.4	51.1	16.7	6.3	12.6	74.8	27.9	10.9	20.1
	Avg	74.5	24.6	12.5	18.1	64.4	22.5	8.5	16.5	79.0	30.5	12.3	23.9
3-Apr-20	Max	89.6	35.4	12.2	32.1	82.4	25.3	16.3	29.3	80.6	29.3	11.8	31.5
	Min	65.7	23.3	9.5	24.8	72.5	22.1	12.7	22.7	75.1	24.8	8.3	26.3
	Avg	77.7	29.4	10.9	28.5	77.5	23.7	14.5	26.0	77.9	27.1	10.1	28.9
4-Apr-20	Max	84.6	30.8	13.6	30.8	86.7	33.8	13.2	28.3	90.3	36.2	17.3	35.3
	Min	68.3	27.2	9.5	24.3	77.8	27.6	10.1	22.7	76.8	28.4	13.7	32.4
	Avg	76.5	29.0	11.6	27.6	82.3	30.7	11.7	25.5	83.6	32.3	15.5	33.9
5-Apr-20	Max	88.7	38.4	10.7	29.3	83.4	27.3	14.3	29.3	87.5	34.2	12.6	30.8
	Min	68.6	32.1	8.6	21.8	80.1	23.8	11.2	24.5	73.6	28.7	9.3	26.7
	Avg	78.7	35.3	9.7	25.6	81.8	25.6	12.8	26.9	80.6	31.5	11.0	28.8
6-Apr-20	Max	81.6	27.6	13.4	26.3	86.3	22.8	13.7	31.5	84.3	25.7	9.6	22.6
	Min	78.3	23.3	11.8	22.7	68.4	23.4	11.9	22.9	61.2	21.3	6.4	15.3
	Avg	80.0	25.5	12.6	24.5	77.4	23.1	12.8	27.2	72.8	23.5	8.0	19.0
7-Apr-20	Max	86.5	22.9	14.8	29.3	88.7	26.9	11.2	26.7	83.6	23.5	13.3	29.3
	Min	66.6	18.6	11.6	23.4	69.8	22.4	8.7	23.6	78.4	19.3	10.8	24.1
	Avg	76.6	20.8	13.2	26.4	79.3	24.7	10.0	25.2	81.0	21.4	12.1	26.7
8-Apr-20	Max	89.1	32.5	18.3	30.7	83.1	31.8	13.8	32.6	79.6	23.2	11.8	23.6
	Min	68.8	26.7	13.4	25.9	77.2	26.1	10.5	30.8	55.6	15.8	9.6	21.1
	Avg	79.0	29.6	15.9	28.3	80.2	29.0	12.2	31.7	67.6	19.5	10.7	22.4
9-Apr-20	Max	91.2	36.4	13.9	33.4	88.9	32.6	16.3	30.8	85.5	29.3	16.8	29.6
	Min	88.4	34.8	10.8	31.8	83.1	26.9	12.5	27.7	82.6	24.2	12.5	25.3
	Avg	89.8	35.6	12.4	32.6	86.0	29.8	14.4	29.3	84.1	26.8	14.7	27.5
10-Apr-20	Max	90.6	42.1	10.9	31.5	85.1	28.9	12.7	33.7	87.2	31.5	13.6	31.2
	Min	72.2	36.2	6.3	27.6	82.7	21.5	9.3	26.2	81.5	27.3	10.8	26.8
	Avg	81.4	39.2	8.6	29.6	83.9	25.2	11.0	30.0	84.4	29.4	12.2	29.0
11-Apr-20	Max	86.3	35.4	13.2	26.7	88.3	30.8	14.8	31.8	83.9	34.6	15.8	30.9
	Min	63.4	26.3	10.9	21.5	80.7	27.6	12.4	27.7	80.4	31.8	11.9	27.8
	Avg	74.9	30.9	12.1	24.1	84.5	29.2	13.6	29.8	82.2	33.2	13.9	29.4
12-Apr-20	Max	88.1	28.3	14.5	29.7	89.6	29.7	18.3	32.5	80.8	25.8	17.6	32.1
	Min	83.4	21.8	9.3	22.9	75.5	24.6	13.7	25.8	61.5	22.9	12.8	28.9
	Avg	85.8	25.1	11.9	26.3	82.6	27.2	16.0	29.2	71.2	24.4	15.2	30.5
13-Apr-20	Max	86.0	24.7	9.6	26.8	91.6	37.6	15.6	35.1	87.4	35.8	14.7	29.3
	Min	61.9	22.6	6.2	22.1	68.3	29.3	10.9	32.5	69.7	25.7	10.8	26.7
	Avg	74.0	23.7	7.9	24.5	80.0	33.5	13.3	33.8	78.6	30.8	12.8	28.0
14-Apr-20	Max	81.6	29.3	10.5	29.3	86.7	32.9	12.8	28.9	84.9	26.9	17.1	31.5
	Min	69.2	21.8	7.3	24.8	77.6	27.6	9.6	23.7	77.2	21.1	12.6	25.6
	Avg	75.4	25.6	8.9	27.1	82.2	30.3	11.2	26.3	81.1	24.0	14.9	28.6
15-Apr-20	Max	83.6	23.9	13.5	26.3	89.6	30.9	16.3	31.8	82.6	32.8	13.2	29.3
	Min	63.2	20.4	6.8	22.7	67.9	24.3	12.8	25.1	71.5	24.7	8.3	23.4
	Avg	73.4	22.2	10.2	24.5	78.8	27.6	14.6	28.5	77.1	28.8	10.8	26.4
16-Apr-20	Max	86.9	34.2	12.8	32.8	83.1	26.4	13.2	29.6	88.6	29.3	9.3	28.6
	Min	62.2	27.6	9.3	26.6	60.8	22.2	10.8	24.3	76.2	23.8	6.1	21.1
	Avg	74.6	30.9	11.1	29.7	72.0	24.3	12.0	27.0	82.4	26.6	7.7	24.9
17-Apr-20	Max	82.1	30.8	13.6	29.3	87.7	22.1	17.3	33.1	80.9	24.4	10.9	31.6
	Min	62.8	26.7	10.8	22.8	69.3	19.3	13.4	28.3	73.3	21.6	6.3	28.8
	Avg	72.5	28.8	12.2	26.1	78.5	20.7	15.4	30.7	77.1	23.0	8.6	30.2
18-Apr-20	Max	87.9	29.3	16.6	32.4	81.6	26.3	12.3	29.3	86.3	21.4	14.6	27.3
	Min	83.6	24.5	13.8	24.6	72.8	23.8	8.6	24.7	82.7	16.8	6.2	19.3
	Avg	85.8	26.9	15.2	28.5	77.2	25.1	10.5	27.0	84.5	19.1	10.4	23.3
19-Apr-20	Max	85.5	26.1	17.6	32.3	88.6	33.0	13.3	32.9	81.1	29.3	16.3	32.2
	Min	66.3	22.3	11.5	25.4	69.3	27.6	10.9	26.3	63.3	22.1	12.4	26.3
	Avg	75.9	24.2	14.6	28.9	79.0	30.3	12.1	29.6	72.2	25.7	14.4	29.3
20-Apr-20	Max	82.2	28.6	14.2	29.3	86.3	32.4	14.2	32.5	85.2	31.1	12.5	30.6
	Min	63.6	21.1	10.6	21.5	80.6	28.2	12.8	28.6	75.3	23.1	8.3	24.4
	Avg	72.9	24.9	12.4	25.4	83.5	30.3	13.5	30.6	80.3	27.1	10.4	27.5
21-Apr-20	Max	86.9	32.5	13.2	31.2	89.6	36.0	12.2	26.2	82.2	27.2	10.9	29.0
	Min	75.8	28.9	9.6	27.4	75.5	27.1	8.8	20.8	63.2	23.9	6.7	22.5
	Avg	81.4	30.7	11.4	29.3	82.6	31.6	10.5	23.5	72.7	25.6	8.8	25.8
22-Apr-20	Max	88.6	29.3	16.3	28.4	86.1	28.3	15.2	32.2	87.4	32.2	13.2	32.2
	Min	64.2	21.8	13.7	23.8	63.8	24.6	9.8	28.3	80.9	27.7	10.1	27.2
	Avg	76.4	25.6	15.0	26.1	75.0	26.5	12.5	30.3	84.2	30.0	11.7	29.7
23-Apr-20	Max	91.1	42.2	12.2	34.2	89.3	36.0	13.2	32.2	83.8	34.4	14.2	30.8
	Min	83.5	33.4	9.0	29.0	66.7	25.8	11.1	30.5	75.2	31.1	10.6	24.9
	Avg	87.3	37.8	10.6	31.6	78.0	30.9	12.2	31.4	79.5	32.8	12.4	27.9
24-Apr-20	Max	86.8	40.5	16.3	29.3	81.8	29.3	17.7	34.2	87.6	28.1	13.8	32.8
	Min	72.1	34.9	12.4	23.8	64.2	22.1	12.6	28.1	83.4	23.9	9.7	24.1
	Avg	79.5	37.7	14.4	26.6	73.0	25.7	15.2	31.2	85.5	26.0	11.8	28.5
25-Apr-20	Max	83.4	34.4	11.1	30.9	85.6	35.2	13.3	32.9	83.7	30.1	17.5	27.6
	Min	80.9	31.8	8.6	27.8	74.4	28.9	10.9	27.7	73.9	24.6	8.9	22.5
	Avg	82.2	33.1	9.9	29.4	80.0	32.1	12.1	30.3	78.8	27.4	13.2	25.1
26-Apr-20	Max	88.9	29.1	10.0	26.3	83.1	26.3	9.6	24.0	85.9	27.4	14.3	28.1
	Min	73.6	22.4	6.7	21.8	79.3	22.1	5.3	18.6	62.8	22.1	8.5	23.2
	Avg	81.3	25.8	8.4	24.1	81.2	24.2	7.5	21.3	74.4	24.8	11.4	25.7
27-Apr-20	Max	86.6	31.2	16.3	28.6	88.8	31.5	12.4	26.9	80.6	20.7	12.4	28.3
	Min	82.1	26.3	12.4	24.3	65.3	28.4	8.6	21.5	59.7	16.8	7.3	23.7
	Avg	84.4	28.8	14.4	26.5	77.1	30.0	10.5	24.2	70.2	18.8	9.9	26.0
28-Apr-20	Max	88.3	33.6	12.9	31.4	82.4	29.6	13.6	36.3	85.2	25.6	13.6	22.6
	Min	65.7	32.2	9.7	26.8	76.1	23.7	11.8	31.5	68.9	21.8	11.5	19.3
	Avg	77.0	32.9	11.3	29.1	79.3	26.7	12.7	33.9	77.1	23.7	12.6	21.0
29-Apr-20	Max	85.5	37.6	16.3	30.8	88.3	30.5	14.2	28.2	81.6	26.3	17.4	26.9
	Min	78.6	33.4	12.7	26.3	81.1	25.7	10.8	22.8	72.2	20.7	11.6	23.4
	Avg	82.1	35.5	14.5	28.6	84.7	28.1	12.5	25.5	76.9	23.5	14.5	25.2
30-Apr-20	Max	87.0	28.6	12.2	32.4	86.3	27.6	9.6	27.6	87.6	30.6	10.8	29.4
	Min	74.4	23.3	8.6	28.6	78.9	25.5	6.7	23.7	80.9	26.3	8.8	24.1
	Avg	80.7	26.0	10.4	30.5	82.6	26.6	8.2	25.7	84.3	28.5	9.8	26.8

ADANI POWER MAHARASHTRA LIMITED													
5 x 660 MW Thermal Power Plant , Tirora, Gondia (Mh)													
Station: (AAQMS 1,2 and 3)			Report Type: Mean				Time Base: 1Hr				Month- May20		
Month		AAQMS-1 (Labour Hutment)				AAQMS-2 (China Colony)				AAQMS-3 (Gate no -2)			
		PM 10 ug/m3	PM 2.5 ug/m3	SO2 ug/m3	NOx ug/m3	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm
1-May-20	Max	90.3	35.0	12.3	28.5	83.2	32.4	11.9	24.1	93.6	43.5	16.8	31.2
	Min	71.1	23.5	8.4	23.6	64.4	24.1	6.6	15.9	72.8	31.6	10.2	22.4
	Avg	80.7	29.3	10.4	26.1	73.8	28.3	9.3	20.0	83.2	37.6	13.5	26.8
2-May-20	Max	92.4	37.1	14.4	30.6	86.8	28.3	10.8	29.7	91.5	46.7	14.2	33.4
	Min	74.2	21.9	6.8	22.0	60.1	21.7	8.6	16.8	63.8	33.4	9.5	24.8
	Avg	83.3	29.5	10.6	26.3	73.5	25.0	9.7	23.3	77.7	40.1	11.9	29.1
3-May-20	Max	88.3	30.8	12.3	27.2	82.1	25.4	11.8	26.3	83.2	22.6	16.3	32.2
	Min	70.2	18.5	8.8	23.4	76.8	18.3	6.7	18.8	72.8	18.9	12.8	21.5
	Avg	79.3	24.7	10.6	25.3	79.5	21.9	9.3	22.6	78.0	20.8	14.6	26.9
4-May-20	Max	78.9	23.4	13.6	22.8	85.0	36.2	13.5	29.5	89.3	23.0	15.2	27.7
	Min	62.4	18.9	10.8	19.3	71.8	32.8	11.2	24.4	75.5	18.6	12.9	22.6
	Avg	70.7	21.2	12.2	21.1	78.4	34.5	12.4	27.0	82.4	20.8	14.1	25.2
5-May-20	Max	86.3	28.8	10.6	29.3	89.6	42.2	16.8	33.7	78.2	28.9	12.3	33.1
	Min	75.8	23.1	8.4	24.2	65.2	35.1	12.5	26.4	61.1	23.1	9.4	28.4
	Avg	81.1	26.0	9.5	26.8	77.4	38.7	14.7	30.1	69.7	26.0	10.9	30.8
6-May-20	Max	92.2	33.6	16.8	34.1	87.6	38.2	17.2	28.9	85.2	31.4	18.6	29.3
	Min	79.3	26.8	13.7	32.6	63.2	29.8	11.6	23.4	72.4	22.6	14.2	23.4
	Avg	85.8	30.2	15.3	33.4	75.4	34.0	14.4	26.2	78.8	27.0	16.4	26.4
7-May-20	Max	96.7	46.8	12.5	33.7	89.6	33.1	12.8	35.6	83.4	36.6	11.3	32.6
	Min	84.2	34.1	9.7	30.8	83.4	27.6	8.6	31.5	78.9	33.7	7.9	30.8
	Avg	90.5	40.5	11.1	32.3	86.5	30.4	10.7	33.6	81.2	35.2	9.6	31.7
8-May-20	Max	93.4	40.2	16.2	28.8	85.2	28.3	15.3	29.2	87.3	41.2	16.3	28.3
	Min	76.6	37.4	13.7	26.9	74.4	21.2	10.6	25.9	69.8	36.7	12.4	25.1
	Avg	85.0	38.8	15.0	27.9	79.8	24.8	13.0	27.6	78.6	39.0	14.4	26.7
9-May-20	Max	96.6	34.1	14.2	31.2	88.6	32.5	14.2	31.1	82.2	36.4	12.5	29.9
	Min	88.2	31.4	9.8	28.8	85.2	28.8	11.7	27.2	74.4	27.1	8.3	24.8
	Avg	92.4	32.8	12.0	30.0	86.9	30.7	13.0	29.2	78.3	31.8	10.4	27.4
10-May-20	Max	93.1	32.4	13.5	33.6	86.3	37.5	14.6	32.2	89.3	46.8	18.3	32.5
	Min	86.4	29.7	10.8	29.4	74.7	33.7	11.2	28.8	75.8	33.4	13.6	27.2
	Avg	89.8	31.1	12.2	31.5	80.5	35.6	12.9	30.5	82.6	40.1	16.0	29.9
11-May-20	Max	87.3	28.6	12.5	29.6	83.9	38.8	12.2	36.4	91.2	41.1	15.6	33.6
	Min	65.2	24.1	8.8	22.4	66.2	33.1	9.8	29.8	78.6	32.1	11.5	28.7
	Avg	76.3	26.4	10.7	26.0	75.1	36.0	11.0	33.1	84.9	36.6	13.6	31.2
12-May-20	Max	93.4	36.6	11.8	39.7	88.7	30.6	16.9	32.4	85.6	28.4	17.2	27.6
	Min	82.3	24.8	8.6	25.5	76.8	21.5	13.7	28.2	76.3	19.6	13.4	22.8
	Avg	87.9	30.7	10.2	32.6	82.8	26.1	15.3	30.3	81.0	24.0	15.3	25.2
13-May-20	Max	96.3	42.8	18.6	36.8	82.7	28.9	13.7	31.1	89.6	33.1	18.8	31.5
	Min	84.3	35.4	12.7	32.4	74.4	23.4	10.9	28.7	76.8	27.4	12.4	26.2
	Avg	90.3	39.1	15.7	34.6	78.6	26.2	12.3	29.9	83.2	30.3	15.6	28.9
14-May-20	Max	89.3	38.6	16.3	29.6	79.9	22.6	10.7	27.6	82.9	29.8	16.3	33.4
	Min	68.2	34.4	12.2	22.4	75.3	19.3	8.6	21.4	76.4	22.6	13.7	29.9
	Avg	78.8	36.5	14.3	26.0	77.6	21.0	9.7	24.5	79.7	26.2	15.0	31.7
15-May-20	Max	85.2	26.3	12.3	26.3	80.6	33.6	13.4	32.2	89.3	33.6	18.6	36.4
	Min	80.4	22.2	8.6	21.1	73.4	28.3	10.8	28.6	82.4	28.4	15.2	32.7
	Avg	82.8	24.3	10.5	23.7	77.0	31.0	12.1	30.4	85.9	31.0	16.9	34.6
16-May-20	Max	88.8	30.5	16.3	29.3	84.3	33.6	19.6	31.2	83.4	29.4	19.2	32.1
	Min	84.6	27.9	12.8	27.3	71.4	25.7	13.5	28.6	78.2	27.1	13.6	30.8
	Avg	86.7	29.2	14.6	28.3	77.9	29.7	16.6	29.9	80.8	28.3	16.4	31.5
17-May-20	Max	82.6	26.3	11.5	23.3	87.6	39.3	15.2	27.2	90.6	44.2	17.6	38.3
	Min	75.2	22.4	8.6	20.7	82.2	33.4	13.4	21.9	84.1	36.1	12.1	32.4
	Avg	78.9	24.4	10.1	22.0	84.9	36.4	14.3	24.6	87.4	40.2	14.9	35.4
18-May-20	Max	89.6	30.8	16.3	28.3	86.3	28.3	16.3	29.6	85.5	36.3	19.6	33.6
	Min	82.2	21.5	11.8	22.4	76.2	19.7	14.2	21.1	81.1	31.4	12.1	31.5
	Avg	85.9	26.2	14.1	25.4	81.3	24.0	15.3	25.4	83.3	33.9	15.9	32.6
19-May-20	Max	96.3	47.0	14.6	31.2	88.6	33.2	18.6	32.7	89.3	42.2	17.6	34.1
	Min	78.4	35.6	9.8	26.3	77.1	30.8	15.2	26.5	84.1	38.3	11.8	32.5
	Avg	87.4	41.3	12.2	28.8	82.9	32.0	16.9	29.6	86.7	40.3	14.7	33.3
20-May-20	Max	94.3	44.5	13.6	36.3	91.2	36.4	15.4	30.8	88.7	37.2	15.2	29.3
	Min	91.4	41.2	9.9	32.4	85.5	33.6	12.8	25.6	82.6	35.7	11.9	22.4
	Avg	92.9	42.9	11.8	34.4	88.4	35.0	14.1	28.2	85.7	36.5	13.6	25.9
21-May-20	Max	90.3	40.9	16.6	33.3	89.6	32.6	11.5	32.5	94.3	48.6	17.6	33.7
	Min	77.2	36.5	8.9	30.2	83.4	28.8	7.9	26.8	86.8	44.8	13.7	30.9
	Avg	83.8	38.7	12.8	31.8	86.5	30.7	9.7	29.7	90.6	46.7	15.7	32.3
22-May-20	Max	86.3	33.6	14.4	29.6	82.6	29.3	9.6	27.8	86.6	32.7	16.3	29.3
	Min	76.8	31.5	10.9	21.8	79.3	21.4	6.3	21.9	82.1	28.8	11.8	24.6
	Avg	81.6	32.6	12.7	25.7	81.0	25.4	8.0	24.9	84.4	30.8	14.1	27.0
23-May-20	Max	89.1	31.1	13.3	31.5	92.3	38.6	14.3	34.5	83.6	29.3	15.7	32.5
	Min	75.3	26.9	10.9	27.6	85.5	33.4	12.9	31.8	81.4	25.2	9.6	29.8
	Avg	82.2	29.0	12.1	29.6	88.9	36.0	13.6	33.2	82.5	27.3	12.7	31.2
24-May-20	Max	93.3	46.8	15.9	33.8	90.6	42.6	12.6	34.4	86.3	33.8	16.3	29.3
	Min	91.5	37.1	11.6	31.2	85.7	39.2	9.9	32.9	80.9	31.6	11.8	21.5
	Avg	92.4	42.0	13.8	32.5	88.2	40.9	11.3	33.7	83.6	32.7	14.1	25.4
25-May-20	Max	89.9	41.1	12.3	29.3	93.5	46.3	10.9	33.8	89.6	30.6	13.9	32.6
	Min	86.7	38.8	9.3	22.4	88.6	41.4	6.3	29.2	84.3	27.2	10.2	27.3
	Avg	88.3	40.0	10.8	25.9	91.1	43.9	8.6	31.5	87.0	28.9	12.1	30.0
26-May-20	Max	94.3	45.5	16.8	35.5	87.8	35.2	15.7	29.6	91.4	36.6	14.4	36.9
	Min	92.6	39.6	12.9	32.8	83.9	31.5	12.5	24.4	87.5	32.5	10.6	31.5
	Avg	93.5	42.6	14.9	34.2	85.9	33.4	14.1	27.0	89.5	34.6	12.5	34.2
27-May-20	Max	93.3	42.2	12.2	31.4	89.3	31.5	12.8	35.3	87.3	32.6	17.6	30.9
	Min	86.1	40.3	8.6	28.6	82.5	28.6	10.9	31.8	83.6	30.8	13.8	28.6
	Avg	89.7	41.3	10.4	30.0	85.9	30.1	11.9	33.6	85.5	31.7	15.7	29.8
28-May-20	Max	86.3	36.3	9.6	28.6	92.3	39.3	19.6	36.7	90.9	34.9	14.6	38.6
	Min	81.4	34.5	6.3	22.5	91.5	34.6	14.3	32.1	84.5	32.2	12.5	33.7
	Avg	83.9	35.4	8.0	25.6	91.9	37.0	17.0	34.4	87.7	33.6	13.6	36.2
29-May-20	Max	89.6	32.1	15.6	31.6	90.6	35.6	13.2	37.2	93.7	45.5	16.3	32.8
	Min	84.5	28.6	11.8	25.8	81.8	33.7	8.9	32.9	92.4	42.3	11.8	29.5
	Avg	87.1	30.4	13.7	28.7	86.2	34.7	11.1	35.1	93.1	43.9	14.1	31.2
30-May-20	Max	94.6	46.6	12.5	33.8	86.7	39.0	18.3	34.3	91.4	44.2	15.3	33.8
	Min	92.5	33.7	7.6	28.9	80.6	33.8	12.9	31.4	85.5	39.6	12.9	31.3
	Avg	93.6	40.2	10.1	31.4	83.7	36.4	15.6	32.9	88.5	41.9	14.1	32.6
31-May-20	Max	91.5	41.1	13.3	30.9	89.9	33.7	14.7	36.8	86.3	35.8	12.6	37.2
	Min	89.7	38.7	9.7	27.6	81.1	30.8	11.5	31.5	81.1	33.1	8.6	32.8
	Avg	90.6	39.9	11.5	29.3	85.5	32.3	13.1	34.2	83.7	34.5	10.6	35.0

ADANI POWER MAHARASHTRA LIMITED													
5 x 660 MW Thermal Power Plant, Tirora, Gondia (Mh)													
Station: (AAQMS 1,2 and 3)				Report Type: Mean				Time Base: 1Hr				Month- June'20	
Month	AAQMS-1 (Labour Hutment)				AAQMS-2 (China Colony)				AAQMS-3 (Gate no -2)				
	PM 10	PM 2.5	SO2	NOx	PM10	PM2.5	SO2	NOX	PM10	PM2.5	SO2	NOX	
	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ppm	ug/m3	ug/m3	ug/m3	ppm	
1-Jun-20	Max	86.3	42.2	10.6	26.3	89.1	40.9	15.3	25.6	82.3	32.3	12.3	22.4
	Min	68.4	33.8	6.3	22.8	80.3	34.3	12.2	21.4	72.2	28.6	9.4	18.6
	Avg	77.4	38.0	8.5	24.6	84.7	37.6	13.8	23.5	77.3	30.5	10.9	20.5
2-Jun-20	Max	88.6	32.7	11.8	29.9	82.6	33.4	12.3	24.1	80.5	31.5	16.3	20.6
	Min	84.2	28.2	8.8	27.3	81.1	29.7	8.8	21.9	78.2	26.3	14.1	18.3
	Avg	86.4	30.5	10.3	28.6	81.9	31.6	10.6	23.0	79.4	28.9	15.2	19.5
3-Jun-20	Max	89.7	38.4	9.6	26.3	83.7	30.1	11.8	21.6	83.4	32.9	12.6	23.7
	Min	87.2	32.9	6.7	23.8	81.1	27.5	8.6	17.2	81.2	28.3	9.8	20.5
	Avg	88.5	35.7	8.2	25.1	82.4	28.8	10.2	19.4	82.3	30.6	11.2	22.1
4-Jun-20	Max	92.3	40.3	17.3	28.6	90.2	38.3	13.4	26.3	88.5	39.3	14.3	26.3
	Min	88.4	37.2	13.7	23.7	87.5	32.2	11.8	22.7	81.3	37.8	10.8	24.9
	Avg	90.4	38.8	15.5	26.2	88.9	35.3	12.6	24.5	84.9	38.6	12.6	25.6
5-Jun-20	Max	85.6	31.2	12.3	21.6	82.2	29.3	9.6	23.3	89.6	40.3	16.3	23.4
	Min	84.3	27.3	8.8	17.3	78.2	26.8	6.3	20.8	87.2	37.9	14.2	21.1
	Avg	85.0	29.3	10.6	19.5	80.2	28.1	8.0	22.1	88.4	39.1	15.3	22.3
6-Jun-20	Max	88.6	33.9	16.3	23.4	83.3	33.7	13.4	26.4	81.6	29.3	12.8	26.4
	Min	83.1	31.4	12.7	21.6	78.9	31.8	11.1	24.8	79.3	24.1	9.7	24.1
	Avg	85.9	32.7	14.5	22.5	81.1	32.8	12.3	25.6	80.5	26.7	11.3	25.3
7-Jun-20	Max	87.1	25.6	12.2	26.3	85.1	29.6	9.6	19.7	81.1	22.6	13.2	23.2
	Min	84.4	21.1	6.5	24.8	83.7	23.4	7.2	16.8	76.3	19.8	11.1	20.0
	Avg	85.8	23.4	9.4	25.6	84.4	26.5	8.4	18.3	78.7	21.2	12.2	21.6
8-Jun-20	Max	63.4	22.1	9.8	19.1	66.6	18.6	7.7	21.1	61.5	18.8	10.9	20.3
	Min	55.8	18.6	5.3	13.5	62.7	13.3	6.1	18.7	58.8	16.5	6.6	17.6
	Avg	59.6	20.4	7.6	16.3	64.7	16.0	6.9	19.9	60.2	17.7	8.8	19.0
9-Jun-20	Max	69.3	26.3	11.2	21.1	73.3	21.1	12.6	23.4	64.4	20.8	17.3	22.6
	Min	64.8	24.4	8.8	18.8	71.4	19.6	8.8	21.7	62.8	15.6	14.8	19.7
	Avg	67.1	25.4	10.0	20.0	72.4	20.4	10.7	22.6	63.6	18.2	16.1	21.2
10-Jun-20	Max	63.2	19.6	17.8	26.4	69.6	23.1	8.9	18.3	56.8	17.6	14.2	18.6
	Min	57.7	14.4	15.9	23.7	57.8	21.1	5.6	12.5	54.5	13.7	11.1	12.8
	Avg	60.5	17.0	16.9	25.1	63.7	22.1	7.3	15.4	55.7	15.7	12.7	15.7
11-Jun-20	Max	60.0	15.6	14.3	21.1	58.6	19.6	10.6	18.6	59.9	21.4	11.3	20.3
	Min	58.8	12.2	12.2	18.8	46.3	15.7	6.3	13.7	57.7	17.3	9.4	17.2
	Avg	59.4	13.9	13.3	20.0	52.5	17.7	8.5	16.2	58.8	19.4	10.4	18.8
12-Jun-20	Max	63.7	23.7	10.6	23.4	66.6	21.4	7.7	19.9	63.3	17.6	13.6	23.3
	Min	60.9	21.1	6.7	19.6	63.1	17.5	5.9	16.3	61.1	14.5	11.4	21.4
	Avg	62.3	22.4	8.7	21.5	64.9	19.5	6.8	18.1	62.2	16.1	12.5	22.4
13-Jun-20	Max	56.8	16.6	13.4	19.3	51.5	15.6	8.9	15.6	55.0	18.9	9.9	16.8
	Min	54.4	13.8	10.8	13.5	46.3	13.9	6.0	12.8	53.8	14.6	6.8	14.1
	Avg	55.6	15.2	12.1	16.4	48.9	14.8	7.5	14.2	54.4	16.8	8.4	15.5
14-Jun-20	Max	58.8	18.6	11.2	22.4	54.1	18.6	8.1	11.3	51.6	19.8	12.4	19.6
	Min	54.6	13.3	9.7	19.6	50.2	13.4	6.8	9.7	45.8	15.6	10.0	14.7
	Avg	56.7	16.0	10.5	21.0	52.2	16.0	7.5	10.5	48.7	17.7	11.2	17.2
15-Jun-20	Max	62.5	22.2	14.4	23.3	64.3	19.6	12.3	21.4	60.3	22.7	14.3	23.4
	Min	61.7	20.8	11.7	21.5	62.2	13.3	9.8	18.6	58.8	20.1	12.4	21.1
	Avg	62.1	21.5	13.1	22.4	63.3	16.5	11.1	20.0	59.6	21.4	13.4	22.3
16-Jun-20	Max	65.5	24.5	10.8	21.1	61.1	20.3	8.3	13.8	58.8	18.8	11.7	20.6
	Min	62.2	21.8	7.6	18.6	58.8	17.6	6.4	11.1	55.9	16.6	9.3	17.7
	Avg	63.9	23.2	9.2	19.9	60.0	19.0	7.4	12.5	57.4	17.7	10.5	19.2
17-Jun-20	Max	62.2	18.8	13.2	23.1	56.9	18.8	12.3	19.3	51.5	21.5	9.7	18.3
	Min	60.8	16.4	11.8	21.5	54.3	14.1	10.8	15.8	49.8	18.6	8.6	16.7
	Avg	61.5	17.6	12.5	22.3	55.6	16.5	11.6	17.6	50.7	20.1	9.2	17.5
18-Jun-20	Max	55.5	16.7	17.1	22.6	58.2	17.8	14.2	20.4	53.6	15.3	10.6	19.2
	Min	53.9	14.7	14.3	20.8	56.7	13.5	11.1	17.7	51.4	12.4	9.7	17.7
	Avg	54.7	15.7	15.7	21.7	57.5	15.7	12.7	19.1	52.5	13.9	10.2	18.5
19-Jun-20	Max	62.1	18.3	14.2	20.2	60.3	22.4	10.6	21.8	57.4	18.6	13.1	20.6
	Min	60.5	16.7	12.8	18.6	58.6	18.6	8.6	17.6	55.1	16.8	11.4	18.8
	Avg	61.3	17.5	13.5	19.4	59.5	20.5	9.6	19.7	56.3	17.7	12.3	19.7
20-Jun-20	Max	65.2	23.1	12.7	21.1	63.2	20.2	12.4	22.5	60.2	21.1	7.9	18.1
	Min	63.8	21.5	10.6	17.6	61.5	18.8	10.1	20.9	58.8	19.9	5.4	16.5
	Avg	64.5	22.3	11.7	19.4	62.4	19.5	11.3	21.7	59.5	20.5	6.7	17.3
21-Jun-20	Max	61.1	18.6	14.8	22.6	58.3	15.9	6.8	18.8	63.4	22.8	11.2	21.0
	Min	59.7	13.7	12.4	19.3	57.1	12.4	5.7	14.5	62.5	19.9	9.8	18.3
	Avg	60.4	16.2	13.6	21.0	57.7	14.2	6.3	16.7	63.0	21.4	10.5	19.7
22-Jun-20	Max	58.0	14.1	11.1	22.2	56.9	17.8	9.6	19.8	51.1	19.8	13.3	20.9
	Min	56.8	10.5	9.0	20.8	55.1	14.2	7.7	15.5	49.9	15.5	11.5	18.8
	Avg	57.4	12.3	10.1	21.5	56.0	16.0	8.7	17.7	50.5	17.7	12.4	19.9
23-Jun-20	Max	60.3	20.8	14.8	23.3	57.6	19.7	12.5	23.4	59.7	20.7	10.5	22.1
	Min	58.8	17.7	12.5	21.1	54.4	17.7	9.6	21.1	57.9	17.7	8.8	18.9
	Avg	59.6	19.3	13.7	22.2	56.0	18.7	11.1	22.3	58.8	19.2	9.7	20.5
24-Jun-20	Max	66.9	21.1	10.5	24.2	63.9	16.3	8.9	19.8	60.5	21.8	7.2	18.8
	Min	64.1	18.9	8.7	22.8	61.2	14.8	6.4	16.6	58.8	18.3	5.1	15.4
	Avg	65.5	20.0	9.6	23.5	62.6	15.6	7.7	18.2	59.7	20.1	6.2	17.1
25-Jun-20	Max	63.8	17.3	12.2	21.4	66.7	18.8	9.7	21.4	61.1	17.4	8.4	23.5
	Min	60.2	15.5	9.9	19.6	65.1	16.4	8.4	17.6	59.7	14.1	6.8	21.8
	Avg	62.0	16.4	11.1	20.5	65.9	17.6	9.1	19.5	60.4	15.8	7.6	22.7
26-Jun-20	Max	66.4	19.7	10.6	16.8	68.3	20.4	11.4	20.8	63.3	18.9	12.8	20.5
	Min	64.7	15.5	8.4	12.4	67.1	17.6	9.9	18.7	61.8	15.8	8.3	17.7
	Avg	65.6	17.6	9.5	14.6	67.7	19.0	10.7	19.8	62.6	17.4	10.6	19.1
27-Jun-20	Max	68.9	21.1	13.4	22.5	60.8	22.2	13.8	23.5	58.6	14.4	8.4	16.3
	Min	67.7	18.8	10.8	19.8	58.3	19.3	11.1	21.1	56.9	11.2	6.6	14.4
	Avg	68.3	20.0	12.1	21.2	59.6	20.8	12.5	22.3	57.8	12.8	7.5	15.4
28-Jun-20	Max	52.5	15.2	7.9	19.1	56.8	17.6	11.9	20.7	61.4	21.0	10.6	20.8
	Min	50.9	14.1	5.8	15.8	54.3	13.8	8.5	18.9	59.7	18.8	8.3	17.7
	Avg	51.7	14.7	6.9	17.5	55.6	15.7	10.2	19.8	60.6	19.9	9.5	19.3
29-Jun-20	Max	54.6	18.3	8.7	18.9	59.4	18.1	12.8	18.1	51.6	16.3	12.6	21.8
	Min	52.8	15.1	5.8	16.3	57.6	16.6	10.2	16.2	50.1	14.8	11.7	19.9
	Avg	53.7	16.7	7.3	17.6	58.5	17.4	11.5	17.2	50.9	15.6	12.2	20.9
30-Jun-20	Max	52.1	19.9	9.7	20.3	55.1	21.1	13.6	22.2	56.2	19.9	11.5	23.4
	Min	50.8	16.8	8.1	18.8	54.2	18.4	10.5	19.3	55.8	17.6	9.9	21.5
	Avg	51.5	18.4	8.9	19.6	54.7	19.8	12.1	20.8	56.0	18.8	10.7	22.5

ADANI POWER MAHARASHTRA LIMITED													
5 x 660 MW Thermal Power Plant , Tirora, Gondia (Mh)													
Station: (AAQMS 1,2 and 3)				Report Type: Mean				Time Base: 1Hr		Month- July20			
Month		AAQMS-1 (Labour Hutment)				AAQMS-2 (China Colony)				AAQMS-3 (Gate no -2)			
		PM 10 ug/m3	PM 2.5 ug/m3	SO2 ug/m3	NOx ug/m3	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm
1-Jul-20	Max	85.4	21.5	7.0	16.0	63.4	22.2	7.8	19.4	56.3	23.4	8.6	21.5
	Min	78.5	18.8	5.3	11.1	54.8	18.5	4.5	15.3	51.4	21.1	5.1	17.7
	Avg	82.0	20.2	6.2	13.6	59.1	20.4	6.2	17.4	53.9	22.3	6.9	19.6
2-Jul-20	Max	87.3	23.4	8.3	20.2	67.7	23.3	9.6	22.5	66.8	25.4	11.5	22.7
	Min	82.4	21.1	6.1	18.4	54.2	21.9	5.2	18.1	62.3	22.8	8.2	19.6
	Avg	84.9	22.3	7.2	19.3	61.0	22.6	7.4	20.3	64.6	24.1	9.9	21.2
3-Jul-20	Max	81.4	25.6	13.2	18.2	69.7	20.5	8.7	18.3	55.8	22.3	6.9	23.4
	Min	79.3	21.8	11.4	14.4	57.3	16.7	6.4	14.8	52.1	19.9	5.2	21.8
	Avg	80.4	23.7	12.3	16.3	63.5	18.6	7.6	16.6	54.0	21.1	6.1	22.6
4-Jul-20	Max	79.2	21.4	10.3	23.7	78.8	22.4	11.4	20.1	63.8	23.4	12.4	23.3
	Min	77.7	18.7	7.9	21.1	76.4	19.9	9.8	18.6	61.5	21.8	9.3	18.5
	Avg	78.5	20.1	9.1	22.4	77.6	21.2	10.6	19.4	62.7	22.6	10.9	20.9
5-Jul-20	Max	69.3	25.3	7.8	19.8	89.4	19.2	8.8	18.9	80.5	22.3	9.7	21.5
	Min	62.2	23.4	5.4	14.2	85.7	15.4	6.4	12.1	78.3	18.7	8.2	18.6
	Avg	65.8	24.4	6.6	17.0	87.6	17.3	7.6	15.5	79.4	20.5	9.0	20.1
6-Jul-20	Max	59.3	23.8	8.7	21.2	83.1	23.4	10.3	19.2	84.7	22.5	8.7	19.2
	Min	57.8	21.7	6.4	18.3	81.5	19.5	6.8	14.5	82.5	19.9	6.2	16.8
	Avg	58.6	22.8	7.6	19.8	82.3	21.5	8.6	16.9	83.6	21.2	7.5	18.0
7-Jul-20	Max	64.3	20.3	11.2	22.3	72.2	25.8	9.7	21.3	74.2	23.5	12.3	22.1
	Min	61.5	17.4	8.8	19.6	70.5	22.2	7.1	18.7	72.8	20.8	8.6	19.3
	Avg	62.9	18.9	10.0	21.0	71.4	24.0	8.4	20.0	73.5	22.2	10.5	20.7
8-Jul-20	Max	68.8	25.4	10.2	18.3	76.8	26.3	13.8	22.5	71.2	18.7	8.7	19.9
	Min	65.7	23.8	6.1	15.4	75.1	24.2	10.4	20.8	69.8	15.9	5.8	16.1
	Avg	67.3	24.6	8.2	16.9	76.0	25.3	12.1	21.7	70.5	17.3	7.3	18.0
9-Jul-20	Max	56.2	17.8	7.1	19.2	81.4	22.5	11.7	22.2	66.1	22.5	9.5	19.6
	Min	54.2	13.5	5.4	17.8	79.1	18.7	9.9	19.7	64.2	18.8	7.1	16.4
	Avg	55.2	15.7	6.3	18.5	80.3	20.6	10.8	21.0	65.2	20.7	8.3	18.0
10-Jul-20	Max	58.7	23.5	11.4	21.0	61.4	18.2	9.7	16.8	63.8	18.2	7.8	24.4
	Min	53.9	21.8	8.3	19.5	58.8	13.8	5.1	14.7	61.8	13.4	5.1	22.1
	Avg	56.3	22.7	9.9	20.3	60.1	16.0	7.4	15.8	62.8	15.8	6.5	23.3
11-Jul-20	Max	62.5	24.8	14.7	23.7	67.2	21.5	8.7	18.2	57.4	24.6	9.8	21.4
	Min	59.2	21.4	11.5	21.6	64.5	18.6	5.4	13.5	55.8	21.8	7.0	18.8
	Avg	60.9	23.1	13.1	22.7	65.9	20.1	7.1	15.9	56.6	23.2	8.4	20.1
12-Jul-20	Max	81.6	22.8	8.4	19.3	57.6	22.4	10.5	21.5	61.2	20.8	12.1	23.4
	Min	78.6	19.1	6.7	17.5	53.1	18.2	7.8	18.3	58.4	19.7	10.5	21.7
	Avg	80.1	21.0	7.6	18.4	55.4	20.3	9.2	19.9	59.8	20.3	11.3	22.6
13-Jul-20	Max	48.2	18.2	7.2	19.5	58.2	17.5	8.7	22.4	51.1	21.1	9.1	16.5
	Min	46.8	15.6	6.4	13.4	56.7	14.2	6.1	20.1	48.3	18.7	7.4	14.8
	Avg	47.5	16.9	6.8	16.5	57.5	15.9	7.4	21.3	49.7	19.9	8.3	15.7
14-Jul-20	Max	52.4	21.4	10.2	23.1	63.4	22.4	11.5	20.8	68.2	23.7	12.7	19.8
	Min	50.2	18.1	8.6	21.6	62.1	18.7	9.6	17.7	65.5	21.1	9.3	15.4
	Avg	51.3	19.8	9.4	22.4	62.8	20.6	10.6	19.3	66.9	22.4	11.0	17.6
15-Jul-20	Max	44.5	14.2	6.3	18.4	51.2	17.2	10.7	21.2	56.1	24.8	13.2	23.8
	Min	42.8	11.1	4.5	13.5	48.9	15.5	7.8	18.7	54.5	22.2	11.8	17.3
	Avg	43.7	12.7	5.4	16.0	50.1	16.4	9.3	20.0	55.3	23.5	12.5	20.6
16-Jul-20	Max	58.9	24.2	14.9	21.5	40.6	11.2	6.8	18.6	65.8	24.2	10.8	22.4
	Min	56.7	22.8	11.7	19.2	38.2	9.6	4.6	15.5	63.4	22.8	8.2	20.5
	Avg	57.8	23.5	13.3	20.4	39.4	10.4	5.7	17.1	64.6	23.5	9.5	21.5
17-Jul-20	Max	42.1	15.8	12.5	18.6	44.8	18.9	10.1	24.5	55.7	21.1	11.3	20.2
	Min	40.2	13.1	9.8	15.1	42.7	13.4	8.6	22.8	52.0	19.8	9.8	18.5
	Avg	41.2	14.5	11.2	16.9	43.8	16.2	9.4	23.7	53.9	20.5	10.6	19.4
18-Jul-20	Max	64.5	23.4	13.8	22.8	54.2	23.5	12.5	22.1	74.2	25.9	15.8	24.8
	Min	62.8	21.6	10.1	18.6	52.8	21.9	8.4	20.9	73.8	22.8	13.3	22.5
	Avg	63.7	22.5	12.0	20.7	53.5	22.7	10.5	21.5	74.0	24.4	14.6	23.7
19-Jul-20	Max	58.7	26.8	14.1	24.1	67.1	26.3	14.2	23.8	71.6	23.1	12.8	24.8
	Min	56.8	24.2	11.3	22.7	65.7	23.9	11.7	21.1	68.2	20.8	10.3	22.7
	Avg	57.8	25.5	12.7	23.4	66.4	25.1	13.0	22.5	69.9	22.0	11.6	23.8
20-Jul-20	Max	66.1	22.1	10.6	27.2	44.8	21.8	8.7	18.2	76.8	26.3	14.8	21.5
	Min	58.4	19.5	8.2	24.8	42.8	19.1	5.3	13.1	75.2	24.1	12.6	18.2
	Avg	62.3	20.8	9.4	26.0	43.8	20.5	7.0	15.7	76.0	25.2	13.7	19.9
21-Jul-20	Max	64.7	25.4	11.5	21.5	55.0	21.1	9.6	22.3	66.7	23.4	12.8	23.7
	Min	56.9	23.8	8.3	18.3	48.7	19.3	7.3	20.7	64.5	21.0	6.3	21.8
	Avg	60.8	24.6	9.9	19.9	51.9	20.2	8.5	21.5	65.6	22.2	9.6	22.8
22-Jul-20	Max	55.7	22.8	8.7	22.5	61.5	18.3	10.2	24.1	63.1	21.1	12.3	21.6
	Min	52.1	20.1	6.1	20.1	59.3	16.4	7.6	22.4	61.8	18.7	10.4	19.2
	Avg	53.9	21.5	7.4	21.3	60.4	17.4	8.9	23.3	62.5	19.9	11.4	20.4
23-Jul-20	Max	46.8	20.4	6.1	16.4	57.8	21.0	11.2	22.7	50.3	22.1	8.9	22.8
	Min	44.2	18.7	4.2	14.5	54.7	19.4	8.6	19.4	49.1	20.8	5.3	21.3
	Avg	45.5	19.6	5.2	15.5	56.3	20.2	9.9	21.1	49.7	21.5	7.1	22.1
24-Jul-20	Max	72.2	34.2	9.3	21.4	56.4	25.4	14.2	23.8	63.1	38.7	12.5	26.3
	Min	70.6	32.8	6.4	18.6	47.7	23.8	11.7	21.7	59.2	36.8	9.3	24.1
	Avg	71.4	33.5	7.9	20.0	52.1	24.6	13.0	22.8	61.2	37.8	10.9	25.2
25-Jul-20	Max	75.2	36.7	10.8	25.6	63.4	21.2	12.8	26.3	58.6	33.4	11.5	27.4
	Min	73.4	34.6	8.8	23.9	61.5	19.9	8.3	24.1	56.8	31.6	8.2	22.1
	Avg	74.3	35.7	9.8	24.8	62.5	20.6	10.6	25.2	57.7	32.5	9.9	24.8
26-Jul-20	Max	79.3	32.4	8.7	22.6	66.9	28.3	11.4	22.0	69.2	29.0	9.6	23.7
	Min	77.7	30.9	6.4	20.8	64.1	26.7	8.2	19.3	57.8	24.8	5.5	21.1
	Avg	78.5	31.7	7.6	21.7	65.5	27.5	9.8	20.7	63.5	26.9	7.6	22.4
27-Jul-20	Max	68.4	26.8	12.4	25.4	63.8	31.7	13.5	28.3	70.6	28.0	10.2	27.5
	Min	66.6	24.6	10.9	23.1	61.5	28.1	10.2	25.8	68.7	26.8	8.3	23.4
	Avg	67.5	25.7	11.7	24.3	62.7	29.9	11.9	27.1	69.7	27.4	9.3	25.5
28-Jul-20	Max	70.2	33.4	13.8	26.8	68.9	26.4	11.5	25.4	56.8	32.5	10.2	24.1
	Min	68.7	30.9	10.2	23.1	66.2	24.7	9.3	22.8	53.4	30.9	7.5	22.2
	Avg	69.5	32.2	12.0	25.0	67.6	25.6	10.4	24.1	55.1	31.7	8.9	23.2
29-Jul-20	Max	75.8	38.2	14.6	23.8	55.2	26.7	8.2	21.2	67.6	26.6	12.8	25.1
	Min	73.1	36.7	11.2	20.1	53.7	24.5	6.6	19.3	65.2	24.1	9.3	22.8
	Avg	74.5	37.5	12.9	22.0	54.5	25.6	7.4	20.3	66.4	25.4	11.1	24.0
30-Jul-20	Max	65.2	32.5	17.2	29.3	51.8	30.5	11.8	27.7	68.5	37.0	8.6	21.5
	Min	63.8	28.1	14.1	27.7	48.2	26.2	7.4	25.1	65.9	33.2	5.8	18.3
	Avg	64.5	30.3	15.7	24.0	50.0	28.4	9.6	26.4	67.2	35.1	7.2	19.9
31-Jul-20	Max	51.2	28.4	10.8	21.4	56.6	23.8	8.4	20.7	61.3	25.3	12.4	23.8
	Min	48.3	26.2	8.3	18.3	54.7	21.2	6.1	17.1	59.4	23.4	8.7	20.1
	Avg	49.8	27.3	9.6	19.9	55.7	22.5	7.3	18.9	60.4	24.4	10.6	22.0

ADANI POWER MAHARASHTRA LIMITED													
5 x 660 MW Thermal Power Plant , Tirora, Gondia (Mh)													
Station: (AAQMS 1,2 and 3)				Report Type: Mean				Time Base: 1Hr		Month- August'20			
Month		AAQMS-1 (Labour Hutment)				AAQMS-2 (China Colony)				AAQMS-3 (Gate no -2)			
		PM 10 ug/m3	PM 2.5 ug/m3	SO2 ug/m3	NOx ug/m3	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm
1-Aug-20	Max	89.4	32.5	14.8	28.3	65.2	22.8	11.4	25.3	85.3	25.7	12.8	23.8
	Min	78.2	30.9	11.2	23.5	63.8	20.4	9.9	22.1	83.4	23.5	10.2	21.5
	Avg	83.8	31.7	13.0	25.9	64.5	21.6	10.7	23.7	84.4	24.6	11.5	22.7
2-Aug-20	Max	77.3	26.3	11.4	23.4	62.7	20.4	12.5	22.5	55.8	21.5	9.2	23.4
	Min	73.5	22.4	9.9	21.5	60.8	18.3	10.1	21.1	53.4	19.8	7.6	20.5
	Avg	75.4	24.4	10.7	22.5	61.8	19.4	11.3	21.8	54.6	20.7	8.4	22.0
3-Aug-20	Max	72.5	21.0	8.2	20.2	58.3	18.8	7.6	22.1	57.7	22.3	10.3	21.2
	Min	70.8	17.3	6.8	18.8	56.6	14.6	5.8	19.6	55.8	21.4	8.8	19.6
	Avg	71.7	19.2	7.5	19.5	57.5	16.7	6.7	20.9	56.8	21.9	9.6	20.4
4-Aug-20	Max	70.5	23.5	10.5	19.6	61.5	22.2	11.5	24.5	66.3	24.4	13.5	23.5
	Min	68.7	21.7	7.6	16.8	59.3	21.1	9.3	22.3	64.8	22.5	11.2	20.6
	Avg	69.6	22.6	9.1	18.2	60.4	21.7	10.4	23.4	65.6	23.5	12.4	22.1
5-Aug-20	Max	66.3	20.6	11.6	19.2	54.6	16.8	7.6	18.6	50.4	21.3	11.0	18.3
	Min	64.2	18.3	8.3	17.5	53.4	14.5	5.4	16.5	49.6	19.5	8.7	15.4
	Avg	65.3	19.5	10.0	18.4	54.0	15.7	6.5	17.6	50.0	20.4	9.9	16.9
6-Aug-20	Max	61.2	17.0	8.3	21.4	51.2	23.4	10.3	21.6	52.6	25.3	10.8	20.5
	Min	59.6	13.4	6.2	18.6	49.3	18.7	7.9	18.7	50.8	23.5	7.3	18.9
	Avg	60.4	15.2	7.3	20.0	50.3	21.1	9.1	20.2	51.7	24.4	9.1	19.7
7-Aug-20	Max	63.5	22.5	12.5	23.5	48.7	17.3	6.8	18.3	53.4	20.3	8.6	21.4
	Min	60.8	20.1	10.2	21.7	46.6	15.6	4.6	14.8	51.5	18.9	6.1	18.3
	Avg	62.2	21.3	11.4	22.6	47.7	16.5	5.7	16.6	52.5	19.6	7.4	19.9
8-Aug-20	Max	61.4	24.3	11.2	22.9	44.2	19.5	5.1	18.1	56.3	21.5	8.3	16.3
	Min	59.6	22.1	8.3	18.8	42.5	14.3	3.5	15.4	54.5	18.3	5.5	14.2
	Avg	60.5	23.2	9.8	20.9	43.4	16.9	4.3	16.8	55.4	19.9	6.9	15.3
9-Aug-20	Max	45.6	17.2	7.7	16.8	40.5	13.2	8.9	20.3	46.3	14.3	7.2	18.6
	Min	43.2	11.5	5.1	13.2	39.6	11.1	6.4	16.5	42.5	12.4	4.4	14.3
	Avg	44.4	14.4	6.4	15.0	40.1	12.2	7.7	18.4	44.4	13.4	5.8	16.5
10-Aug-20	Max	41.5	18.3	8.6	18.3	44.3	16.3	10.2	17.6	42.5	11.5	7.9	15.8
	Min	40.2	15.6	6.8	15.7	43.5	13.4	6.3	14.3	40.8	9.6	9.0	11.2
	Avg	40.9	17.0	7.7	17.0	43.9	14.9	8.3	16.0	41.7	10.6	8.5	13.5
11-Aug-20	Max	48.3	19.5	6.4	19.9	56.3	21.5	12.5	22.4	44.8	23.5	10.5	18.8
	Min	46.6	16.6	4.3	17.7	54.8	19.6	8.9	20.2	42.6	21.8	7.5	15.6
	Avg	47.5	18.1	5.4	18.8	55.6	20.6	10.7	21.3	43.7	22.7	9.0	17.2
12-Aug-20	Max	54.2	23.5	12.5	22.6	49.5	17.8	13.3	23.6	50.6	21.4	8.6	16.8
	Min	51.6	21.8	8.7	20.8	47.7	15.7	11.5	21.4	48.5	19.3	6.3	13.3
	Avg	52.9	22.7	10.6	21.7	48.6	16.8	12.4	22.5	49.6	20.4	7.5	15.1
13-Aug-20	Max	58.8	26.3	17.5	24.8	55.3	23.3	15.8	26.3	51.2	20.3	12.3	25.7
	Min	56.6	24.5	14.7	22.2	53.8	21.5	13.0	24.8	49.6	18.6	9.6	22.3
	Avg	57.7	25.4	16.1	23.5	54.6	22.4	14.4	25.6	50.4	19.5	11.0	24.0
14-Aug-20	Max	49.6	22.1	13.6	21.1	53.7	24.6	13.1	21.4	47.7	16.3	11.9	21.4
	Min	48.3	20.6	10.4	18.5	51.4	22.8	11.1	18.6	45.8	13.8	7.7	18.6
	Avg	49.0	21.4	12.0	19.8	52.6	23.7	12.1	20.0	46.8	15.1	9.8	20.0
15-Aug-20	Max	45.2	20.5	6.8	18.3	48.3	21.5	11.2	17.3	51.2	18.6	8.6	18.8
	Min	41.8	18.3	4.5	15.6	46.2	18.9	6.8	15.6	48.6	14.8	6.3	15.5
	Avg	43.5	19.4	5.7	17.0	47.3	20.2	9.0	16.5	49.9	16.7	7.5	17.2
16-Aug-20	Max	55.3	23.2	8.6	20.3	52.3	25.5	12.4	21.4	44.5	16.6	6.3	19.6
	Min	53.6	21.5	5.2	18.8	50.6	23.4	9.9	18.2	42.8	13.5	4.7	17.2
	Avg	54.5	22.4	6.9	19.6	51.5	24.5	11.2	19.8	43.7	15.1	5.5	18.4
17-Aug-20	Max	48.6	15.8	7.3	18.9	46.3	17.3	8.2	16.6	50.5	20.5	8.8	18.8
	Min	46.1	12.5	5.2	15.3	45.8	14.5	5.5	14.3	49.6	17.7	5.6	16.1
	Avg	47.4	14.2	6.3	17.1	46.1	15.9	6.9	15.5	50.1	19.1	7.2	17.5
18-Aug-20	Max	52.5	23.5	12.5	21.5	55.6	22.2	11.5	18.8	54.8	24.5	8.7	13.6
	Min	51.1	21.7	10.2	18.8	53.8	20.8	9.3	15.1	52.2	21.1	5.5	10.5
	Avg	51.8	22.6	11.4	20.2	54.7	21.5	10.4	17.0	53.5	22.8	7.1	12.1
19-Aug-20	Max	48.3	20.2	14.2	23.4	44.5	15.6	7.7	19.4	50.6	21.4	12.2	24.4
	Min	46.7	18.8	11.1	21.1	43.8	12.2	5.3	15.6	49.9	18.6	8.8	22.5
	Avg	47.5	19.5	12.7	22.3	44.2	13.9	6.5	17.5	50.3	20.0	10.5	23.5
20-Aug-20	Max	51.2	25.5	14.5	21.5	50.6	16.6	9.6	18.8	45.8	17.6	8.3	21.9
	Min	49.5	23.1	12.2	18.8	48.3	13.7	4.5	15.8	43.1	14.4	6.8	18.8
	Avg	50.4	24.3	13.4	20.2	49.5	15.2	7.1	17.3	44.5	16.0	7.6	20.4
21-Aug-20	Max	55.6	26.3	11.5	23.6	58.0	23.5	17.2	21.5	52.3	24.4	10.8	23.5
	Min	53.1	24.8	8.7	21.8	56.6	20.8	13.8	18.8	51.8	22.2	8.2	19.3
	Avg	54.4	25.6	10.1	22.7	57.3	22.2	15.5	20.2	52.1	23.3	9.5	21.4
22-Aug-20	Max	45.5	17.2	9.6	16.3	48.6	12.5	10.5	18.0	46.3	14.6	7.6	15.6
	Min	43.7	15.6	5.8	14.5	45.8	10.2	7.3	14.5	44.1	12.5	5.1	13.2
	Avg	44.6	16.4	7.7	15.4	47.2	11.4	8.9	16.3	45.2	13.6	6.4	14.4
23-Aug-20	Max	48.3	22.2	10.5	18.7	51.4	22.1	7.7	13.5	46.8	20.2	8.7	18.3
	Min	46.8	18.6	6.3	9.7	49.7	20.5	4.6	11.1	44.1	18.6	5.5	14.5
	Avg	47.6	20.4	8.4	14.2	50.6	21.3	6.2	12.3	45.5	19.4	7.1	16.4
24-Aug-20	Max	52.4	23.7	12.1	19.9	49.9	20.4	9.7	17.2	51.4	22.1	12.4	18.1
	Min	50.5	21.4	8.5	15.4	47.5	17.1	6.2	14.5	48.8	18.8	10.8	14.5
	Avg	51.5	22.6	10.3	17.7	48.7	18.8	8.0	15.9	50.1	20.5	11.6	16.3
25-Aug-20	Max	47.2	17.2	7.6	15.2	44.5	13.2	10.2	19.3	48.3	15.2	9.6	14.5
	Min	45.5	13.4	4.5	11.4	42.4	10.4	8.3	15.6	46.7	11.1	5.3	12.1
	Avg	46.4	15.3	6.1	13.3	43.5	11.8	9.3	17.5	47.5	13.2	7.5	13.3
26-Aug-20	Max	52.3	23.2	12.5	21.3	58.1	20.3	16.3	23.1	50.5	21.8	12.2	21.5
	Min	50.1	21.5	10.8	18.7	56.3	18.8	14.8	20.8	48.6	17.6	10.3	18.6
	Avg	51.2	22.4	11.7	20.0	57.2	19.6	15.6	22.0	49.6	19.7	11.3	20.1
27-Aug-20	Max	44.2	12.8	8.7	13.6	47.3	21.4	7.1	16.3	43.2	15.5	10.1	18.1
	Min	42.5	10.7	5.8	11.4	45.8	17.7	4.5	13.1	41.7	13.2	8.3	15.5
	Avg	43.4	11.8	7.3	12.5	46.6	19.6	5.8	14.7	42.5	14.4	9.2	16.8
28-Aug-20	Max	40.1	10.2	6.8	15.8	44.1	13.5	8.8	19.3	41.1	12.5	11.5	17.5
	Min	38.6	8.1	4.3	13.5	42.8	10.1	6.3	11.4	39.4	10.1	6.8	14.4
	Avg	39.4	9.2	5.6	14.7	43.5	11.8	7.6	15.4	40.3	11.3	9.2	16.0
29-Aug-20	Max	47.5	14.7	12.4	18.8	48.8	15.2	10.2	18.8	44.7	17.2	13.6	19.3
	Min	45.8	10.8	8.3	16.1	46.3	12.4	7.6	13.1	41.6	15.7	11.1	16.1
	Avg	46.7	12.8	10.4	17.5	47.6	13.8	8.9	16.0	43.2	16.5	12.4	17.7
30-Aug-20	Max	48.9	20.5	14.2	18.4	50.3	18.7	9.6	17.6	47.3	20.8	11.8	16.3
	Min	46.7	18.3	12.1	16.3	48.6	14.4	5.7	13.1	45.1	18.6	9.7	12.4
	Avg	47.8	19.4	13.2	17.4	49.5	16.6	7.7	15.4	46.2	19.7	10.8	14.4
31-Aug-20	Max	52.3	22.7	14.7	21.1	54.7	23.7	10.8	21.7	50.8	18.3	13.4	21.5
	Min	48.6	20.8	11.2	18.3	52.2	21.1	6.8	18.8	48.3	16.1	11.1	17.3
	Avg	50.5	21.8	13.0	19.7	53.5	22.4	8.8	20.3	49.6	17.2	12.3	19.4

ADANI POWER MAHARASHTRA LIMITED													
5 x 660 MW Thermal Power Plant , Tirora, Gondia (Mh)													
Station: (AAQMS 1,2 and 3)				Report Type: Mean				Time Base: 1Hr		Month-Sept'20			
Month		AAQMS-1 (Labour Hutment)				AAQMS-2 (China Colony)				AAQMS-3 (Gate no -2)			
		PM 10 ug/m3	PM 2.5 ug/m3	SO2 ug/m3	NOx ug/m3	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm	PM10 ug/m3	PM2.5 ug/m3	SO2 ug/m3	NOX ppm
1-Sep-20	Max	56.2	23.4	14.2	22.1	54.0	23.1	12.4	24.4	55.1	20.4	11.8	19.2
	Min	54.4	21.2	11.1	19.7	52.4	21.5	10.7	21.1	53.8	16.7	9.7	16.8
	Avg	55.3	22.3	12.7	20.9	53.2	22.3	11.6	22.8	54.5	18.6	10.8	18.0
2-Sep-20	Max	48.1	21.8	10.4	21.4	50.4	22.4	12.9	22.6	58.8	24.8	12.4	23.1
	Min	47.5	19.9	8.3	17.7	47.2	18.2	8.3	17.7	56.3	22.4	10.8	21.4
	Avg	47.8	20.9	9.4	19.6	48.8	20.3	10.6	20.2	57.6	23.6	11.6	22.3
3-Sep-20	Max	53.3	24.5	14.8	22.8	57.3	27.2	17.5	25.1	49.2	18.8	9.7	16.0
	Min	51.1	21.8	10.2	18.3	55.8	25.6	13.1	21.4	47.6	15.2	7.2	13.7
	Avg	52.2	23.2	12.5	20.6	56.6	26.4	15.3	23.3	48.4	17.0	8.5	14.9
4-Sep-20	Max	46.3	21.7	8.1	18.2	52.1	24.7	15.2	21.4	49.2	20.1	10.5	18.7
	Min	42.8	18.4	5.6	13.6	50.8	21.1	12.1	18.3	46.7	18.3	6.2	15.4
	Avg	44.6	20.1	6.9	15.9	51.5	22.9	13.7	19.9	48.0	19.2	8.4	17.1
5-Sep-20	Max	50.2	22.7	11.8	21.8	55.8	26.1	12.5	23.4	53.1	22.7	13.1	22.8
	Min	48.8	18.5	8.6	16.3	53.1	22.5	8.3	20.1	51.4	19.3	10.6	18.5
	Avg	49.5	20.6	10.2	19.1	54.5	24.3	10.4	21.8	52.3	21.0	11.9	20.7
6-Sep-20	Max	44.2	18.8	9.9	20.1	48.1	17.2	12.8	19.5	51.2	23.4	14.3	21.1
	Min	41.6	13.2	7.1	15.8	45.2	14.3	8.3	15.2	48.5	19.3	10.2	18.2
	Avg	42.9	16.0	8.5	18.0	46.7	15.8	10.6	17.4	49.9	21.4	12.3	19.7
7-Sep-20	Max	46.3	13.1	11.7	20.5	48.2	21.4	7.3	16.1	52.3	24.2	11.2	23.1
	Min	44.2	11.2	8.1	16.7	46.8	18.5	5.1	13.7	48.5	21.1	8.6	18.2
	Avg	45.3	12.2	9.9	18.6	47.5	20.0	6.2	14.9	50.4	22.7	9.9	20.7
8-Sep-20	Max	53.4	25.7	14.2	24.1	50.8	26.6	11.2	19.9	56.2	22.4	17.3	21.5
	Min	51.8	23.4	12.8	22.8	49.6	22.8	8.8	15.8	54.8	20.1	14.2	17.6
	Avg	52.6	24.6	13.5	23.5	50.2	24.7	10.0	17.9	55.5	21.3	15.8	19.6
9-Sep-20	Max	57.1	27.1	12.5	22.0	55.1	22.8	15.7	22.5	52.1	24.9	12.4	22.9
	Min	55.7	23.6	9.9	19.6	52.8	18.6	13.4	18.1	50.6	21.5	10.6	20.1
	Avg	56.4	25.4	11.2	20.8	54.0	20.7	14.6	20.3	51.4	23.2	11.5	21.5
10-Sep-20	Max	48.3	23.0	10.3	18.6	51.5	21.4	16.2	24.2	54.8	20.6	13.5	24.4
	Min	44.1	18.6	6.3	13.2	49.0	18.3	13.1	22.1	52.9	17.4	11.1	21.5
	Avg	46.2	20.8	8.3	15.9	50.3	19.9	14.7	23.2	53.9	19.0	12.3	23.0
11-Sep-20	Max	57.1	26.4	17.2	25.6	59.3	23.5	13.2	26.3	52.1	23.6	15.8	22.0
	Min	55.3	22.1	12.5	19.9	57.8	20.1	11.1	23.1	50.7	21.5	13.2	19.1
	Avg	56.2	24.3	14.9	22.8	58.6	21.8	12.2	24.7	51.4	22.6	14.5	20.6
12-Sep-20	Max	61.1	22.4	14.0	27.2	63.7	28.3	13.8	22.6	56.3	24.1	11.4	23.5
	Min	58.3	18.3	11.2	23.5	61.5	25.1	10.3	19.1	52.4	21.5	8.1	20.8
	Avg	59.7	20.4	12.6	25.4	62.6	26.7	12.1	20.9	54.4	22.8	9.8	22.2
13-Sep-20	Max	52.1	25.3	15.1	23.8	55.6	27.3	14.3	24.7	52.8	21.2	13.6	24.3
	Min	50.7	23.8	12.5	20.4	52.3	24.1	11.1	20.1	50.3	17.6	8.3	21.1
	Avg	51.4	24.6	13.8	22.1	54.0	25.7	12.7	22.4	51.6	19.4	11.0	22.7
14-Sep-20	Max	45.6	21.9	11.2	23.8	48.8	22.1	13.0	21.8	43.8	19.0	9.5	20.2
	Min	43.8	19.1	8.3	21.1	45.3	19.5	10.1	18.2	41.9	15.5	5.3	18.7
	Avg	44.7	20.5	9.8	22.5	47.1	20.8	11.6	20.0	42.9	17.3	7.4	19.5
15-Sep-20	Max	46.0	15.6	7.3	14.3	49.3	16.3	9.1	18.3	41.0	16.3	12.3	21.1
	Min	44.8	10.8	5.1	11.2	44.8	14.7	6.6	13.0	38.4	12.5	9.3	16.2
	Avg	45.4	13.2	6.2	12.8	47.1	15.5	7.9	15.7	39.7	14.4	10.8	18.7
16-Sep-20	Max	38.3	15.3	8.4	18.3	44.2	13.5	6.3	18.6	33.4	17.8	7.3	17.8
	Min	35.8	12.5	5.5	16.3	42.8	10.1	4.2	14.4	31.2	12.5	4.5	12.0
	Avg	37.1	13.9	7.0	17.3	43.5	11.8	5.3	16.5	32.3	15.2	5.9	14.9
17-Sep-20	Max	48.2	18.1	7.5	18.5	46.3	21.3	9.4	20.7	43.2	22.1	12.4	21.2
	Min	44.1	12.5	5.1	13.8	43.2	17.6	6.5	16.2	41.6	20.5	10.1	18.3
	Avg	46.2	15.3	6.3	16.2	44.8	19.5	8.0	18.5	42.4	21.3	11.3	19.8
18-Sep-20	Max	46.2	24.1	12.4	22.4	40.5	15.5	10.4	21.5	44.8	20.4	9.8	16.3
	Min	44.4	20.4	9.9	20.1	38.3	11.4	6.7	19.3	42.9	18.3	5.3	11.5
	Avg	45.3	22.3	11.2	21.3	39.4	13.5	8.6	20.4	43.9	19.4	7.6	13.9
19-Sep-20	Max	36.9	14.4	7.2	18.8	40.2	21.4	7.7	19.3	43.1	24.1	8.7	17.8
	Min	32.2	11.5	5.1	15.4	38.6	18.3	4.5	15.2	41.5	21.5	5.6	14.5
	Avg	34.6	13.0	6.2	17.1	39.4	19.9	6.1	17.3	42.3	22.8	7.2	16.2
20-Sep-20	Max	48.2	24.1	10.5	18.3	51.6	23.1	12.2	21.0	53.2	27.3	13.5	21.4
	Min	46.6	21.5	8.3	16.7	49.3	19.8	9.3	19.8	51.9	24.5	10.0	17.2
	Avg	47.4	22.8	9.4	17.5	50.5	21.5	10.8	20.4	52.6	25.9	11.8	19.3
21-Sep-20	Max	42.4	19.6	9.3	21.0	48.3	16.3	8.7	17.3	50.2	26.3	10.5	20.5
	Min	40.6	14.2	6.1	18.6	46.8	11.5	5.4	14.5	48.6	22.1	6.3	19.6
	Avg	41.5	16.9	7.7	19.8	47.6	13.9	7.1	15.9	49.4	24.2	8.4	20.1
22-Sep-20	Max	38.5	15.2	8.4	15.4	44.4	18.8	10.5	18.8	42.3	12.5	8.8	14.2
	Min	36.2	11.4	4.7	13.9	43.8	13.5	6.1	12.3	40.5	10.3	6.1	11.8
	Avg	37.4	13.3	6.6	14.7	44.1	16.2	8.3	15.6	41.4	11.4	7.5	13.0
23-Sep-20	Max	44.1	21.4	11.2	17.6	46.6	14.7	9.6	13.5	40.2	16.3	11.4	15.3
	Min	42.1	17.5	6.8	14.3	45.5	12.5	5.8	10.7	39.3	11.8	8.6	11.2
	Avg	43.1	19.5	9.0	16.0	46.1	13.6	7.7	12.1	39.8	14.1	10.0	13.3
24-Sep-20	Max	49.2	18.6	10.6	17.8	43.2	16.0	9.6	16.3	46.3	17.8	7.3	16.3
	Min	47.8	15.2	5.8	14.1	41.8	12.2	6.2	14.2	44.2	13.5	4.8	14.2
	Avg	48.5	16.9	8.2	16.0	42.5	14.1	7.9	15.3	45.3	15.7	6.1	15.3
25-Sep-20	Max	44.3	17.2	12.2	21.1	47.3	19.4	11.1	17.3	48.8	21.4	8.6	18.8
	Min	42.8	13.5	8.6	18.3	45.1	14.2	8.6	14.2	46.2	17.3	5.7	15.5
	Avg	43.6	15.4	10.4	19.7	46.2	16.8	9.9	15.8	47.5	19.4	7.2	17.2
26-Sep-20	Max	49.8	23.4	9.6	17.5	52.3	22.1	10.5	16.3	46.3	18.2	7.7	18.1
	Min	47.5	20.6	7.1	13.6	50.5	18.3	6.3	12.5	42.8	15.5	5.4	12.5
	Avg	48.7	22.0	8.4	15.6	51.4	20.2	8.4	14.4	44.6	16.9	6.6	15.3
27-Sep-20	Max	55.4	25.3	12.2	22.4	59.3	28.3	14.3	25.3	54.8	22.4	13.5	22.7
	Min	53.1	21.4	10.4	18.3	57.6	26.1	11.5	23.4	53.4	18.6	9.3	20.4
	Avg	54.3	23.4	11.3	20.4	58.5	27.2	12.9	24.4	54.1	20.5	11.4	21.6
28-Sep-20	Max	57.9	22.9	13.7	22.7	61.4	31.5	13.7	26.3	55.7	26.7	15.7	23.8
	Min	55.8	17.6	8.7	17.0	58.6	25.3	10.5	23.7	53.4	24.3	13.5	21.1
	Avg	56.9	20.3	11.2	19.9	60.0	28.4	12.1	25.0	54.6	25.5	14.6	22.5
29-Sep-20	Max	63.4	29.6	15.2	26.0	59.1	28.5	11.0	24.8	61.1	22.1	13.8	24.7
	Min	58.6	24.5	10.8	24.8	57.5	24.6	6.3	21.1	58.9	20.0	11.7	21.5
	Avg	61.0	27.1	13.0	25.4	58.3	26.6	8.7	23.0	60.0	21.1	12.8	23.1
30-Sep-20	Max	55.5	24.7	12.2	23.0	52.4	23.7	16.3	28.2	48.6	19.3	8.9	20.1
	Min	53.1	21.6	9.9	19.3	50.0	21.8	13.2	24.6	46.2	15.6	5.8	14.8
	Avg	54.3	23.2	11.1	21.2	51.2	22.8	14.8	26.4	47.4	17.5	7.4	17.5

ADANI POWER MAHARASHTRA LIMITED										
5 X 660 MW THERMAL POWER PLANT, TIRODA, GONDIA, MAHARASHTRA										
CEMS DATA for the Month- April'2020										
S.NO.	DATE	SOX(mg/nm ³)			NOX(mg/nm ³)			PM(mg/nm ³)		
		AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
1	1-Apr-20	844.0	816.0	870.4	263.5	258.2	273.9	39.7	37.2	41.8
2	2-Apr-20	846.5	820.7	876.6	263.9	258.3	277.9	39.8	37.4	42.6
3	3-Apr-20	846.0	819.1	872.5	264.1	257.2	276.2	39.8	37.3	42.2
4	4-Apr-20	840.5	820.0	861.0	260.7	255.3	270.7	39.1	37.2	41.3
5	5-Apr-20	885.2	828.0	924.3	274.9	253.9	290.9	42.0	37.8	45.2
6	6-Apr-20	891.5	825.2	934.2	277.3	255.6	294.2	42.4	37.3	45.8
7	7-Apr-20	910.6	886.5	944.1	282.5	273.3	296.9	43.5	41.7	46.4
8	8-Apr-20	887.8	829.4	942.9	275.4	254.2	297.5	42.1	37.9	46.5
9	9-Apr-20	879.1	844.8	911.7	273.8	258.7	287.6	41.7	38.7	44.5
10	10-Apr-20	898.0	856.6	919.4	280.5	262.0	289.9	43.1	39.4	45.0
11	11-Apr-20	892.9	823.3	926.8	278.7	254.8	292.8	42.7	37.4	45.3
12	12-Apr-20	897.9	871.5	937.5	279.0	266.7	296.0	42.8	40.7	46.2
13	13-Apr-20	894.5	864.5	924.1	278.5	266.9	291.0	42.7	40.4	45.2
14	14-Apr-20	891.2	829.2	924.1	276.7	254.1	291.5	42.3	37.8	45.3
15	15-Apr-20	904.0	874.6	926.4	281.5	267.5	292.4	43.3	40.5	45.5
16	16-Apr-20	891.3	828.1	922.9	277.7	254.9	291.2	42.6	38.0	45.2
17	17-Apr-20	903.6	877.9	938.0	280.9	269.6	295.8	43.2	40.9	46.2
18	18-Apr-20	898.3	848.7	927.3	279.8	265.3	292.4	42.9	39.8	45.3
19	19-Apr-20	878.3	825.9	939.2	273.9	253.7	295.4	41.8	37.8	46.1
20	20-Apr-20	889.2	828.2	943.7	276.9	255.2	298.0	42.4	38.1	46.6
21	21-Apr-20	892.1	825.6	945.9	277.7	255.1	298.0	42.5	37.7	46.3
22	22-Apr-20	893.0	846.8	944.2	277.2	261.9	297.9	42.5	39.4	46.6
23	23-Apr-20	909.1	888.2	929.5	282.4	272.2	292.5	43.5	41.2	45.5
24	24-Apr-20	899.1	868.8	928.6	280.5	268.5	292.8	43.1	40.7	45.3
25	25-Apr-20	896.5	838.2	936.6	280.1	258.4	295.8	43.0	38.7	46.0
26	26-Apr-20	907.7	847.4	935.9	283.1	261.4	295.4	43.6	38.9	46.1
27	27-Apr-20	917.4	889.8	946.3	285.9	273.7	298.2	44.2	41.7	46.8
28	28-Apr-20	900.8	822.1	932.0	281.1	255.8	293.4	43.2	37.3	45.9
29	29-Apr-20	900.0	858.8	925.0	280.8	263.6	292.0	43.2	39.7	45.4
30	30-Apr-20	907.2	850.9	937.5	283.0	262.9	295.9	43.6	39.6	46.0

ADANI POWER MAHARASHTRA LIMITED										
5 X 660 MW THERMAL POWER PLANT, TIRODA, GONDIA, MAHARASHTRA										
CEMS DATA for the Month- May'2020										
S.NO.	DATE	SOX(mg/nm ³)			NOX(mg/nm ³)			PM(mg/nm ³)		
		AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
1	1-May-20	891.0	840.4	920.8	278.4	260.4	290.0	42.7	39.1	45.0
2	2-May-20	881.2	831.7	925.5	273.6	256.3	291.5	41.7	38.3	45.3
3	3-May-20	897.8	835.3	935.4	279.9	256.1	294.5	43.0	38.2	45.9
4	4-May-20	897.1	831.5	923.4	280.0	256.2	291.4	43.0	38.2	45.3
5	5-May-20	902.0	840.1	941.5	280.9	259.0	297.4	43.2	38.8	46.5
6	6-May-20	909.0	881.0	932.6	282.6	270.3	293.6	43.5	41.1	45.7
7	7-May-20	911.1	854.0	944.3	284.8	262.9	298.2	44.0	39.6	46.6
8	8-May-20	888.2	832.7	918.2	276.3	256.5	288.9	42.3	38.3	44.8
9	9-May-20	897.3	861.7	930.3	279.5	266.9	293.8	42.9	40.4	45.8
10	10-May-20	892.6	832.0	937.7	277.8	256.8	296.0	42.6	38.4	46.2
11	11-May-20	878.8	828.6	931.8	273.7	255.0	292.0	41.7	38.0	45.4
12	12-May-20	873.0	832.8	914.2	272.7	255.1	288.7	41.5	38.0	44.7
13	13-May-20	850.1	826.4	885.1	264.9	253.9	280.5	40.0	37.8	43.1
14	14-May-20	851.5	824.1	887.0	265.3	252.6	280.7	40.1	37.5	43.2
15	15-May-20	847.9	819.1	884.7	263.8	250.9	279.7	39.8	37.2	42.9
16	16-May-20	844.1	820.4	887.3	262.1	251.2	279.6	39.4	37.2	42.9
17	17-May-20	857.3	827.1	887.0	266.5	254.2	281.0	40.3	37.8	43.2
18	18-May-20	861.6	841.3	887.8	268.9	257.6	280.9	40.8	38.5	43.2
19	19-May-20	856.3	824.6	887.4	267.5	252.9	280.7	40.5	37.6	43.1
20	20-May-20	860.7	819.7	883.5	269.3	251.2	279.8	40.9	37.2	43.0
21	21-May-20	848.6	826.3	874.0	264.4	254.1	276.4	39.9	37.8	42.3
22	22-May-20	857.0	825.2	881.6	267.4	253.3	278.8	40.5	37.7	42.8
23	23-May-20	858.3	838.8	876.5	268.1	258.4	277.5	40.6	38.7	42.5
24	24-May-20	861.2	830.0	890.0	268.7	254.1	281.7	40.7	37.8	43.3
25	25-May-20	887.1	859.2	922.9	275.7	263.1	287.4	42.1	39.6	44.5
26	26-May-20	911.3	878.0	941.0	282.6	269.4	297.0	43.5	40.9	46.4
27	27-May-20	880.1	821.4	929.7	273.9	251.5	293.8	41.8	37.3	45.8
28	28-May-20	857.8	820.9	929.4	267.7	251.6	291.1	40.5	37.3	45.2
29	29-May-20	893.7	846.8	927.4	278.6	264.2	292.6	42.7	39.8	45.5
30	30-May-20	911.0	876.1	933.0	283.0	268.9	293.3	43.6	40.8	45.7
31	31-May-20	885.0	829.8	941.1	274.7	255.5	296.0	41.9	38.1	46.2

ADANI POWER MAHARASHTRA LIMITED										
5 X 660 MW THERMAL POWER PLANT, TIRODA, GONDIA, MAHARASHTRA										
CEMS DATA for the Month- June'2020										
S.NO.	DATE	SOX(mg/nm ³)			NOX(mg/nm ³)			PM(mg/nm ³)		
		AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
1	1-Jun-20	847.7	823.9	886.3	263.9	253.0	280.7	39.8	37.6	43.1
2	2-Jun-20	849.5	826.8	871.5	265.5	254.3	275.8	40.6	37.9	42.2
3	3-Jun-20	847.4	825.0	870.8	264.2	253.3	275.3	39.8	37.4	42.1
4	4-Jun-20	852.0	826.9	873.2	266.1	253.3	276.6	40.2	37.7	42.3
5	5-Jun-20	Unit in shutdown condition								
6	6-Jun-20	Unit in shutdown condition								
7	7-Jun-20	Unit in shutdown condition								
8	8-Jun-20	Unit in shutdown condition								
9	9-Jun-20	Unit in shutdown condition								
10	10-Jun-20	Unit in shutdown condition								
11	11-Jun-20	Unit in shutdown condition								
12	12-Jun-20	Unit in shutdown condition								
13	13-Jun-20	Unit in shutdown condition								
14	14-Jun-20	Unit in shutdown condition								
15	15-Jun-20	Unit in shutdown condition								
16	16-Jun-20	Unit in shutdown condition								
17	17-Jun-20	Unit in shutdown condition								
18	18-Jun-20	Unit in shutdown condition								
19	19-Jun-20	Unit in shutdown condition								
20	20-Jun-20	Unit in shutdown condition								
21	21-Jun-20	Unit in shutdown condition								
22	22-Jun-20	Unit in shutdown condition								
23	23-Jun-20	Unit in shutdown condition								
24	24-Jun-20	Unit in shutdown condition								
25	25-Jun-20	Unit in shutdown condition								
26	26-Jun-20	Unit in shutdown condition								
27	27-Jun-20	Unit in shutdown condition								
28	28-Jun-20	Unit in shutdown condition								
29	29-Jun-20	Unit in shutdown condition								
30	30-Jun-20	Unit in shutdown condition								

ADANI POWER MAHARASHTRA LIMITED										
5 X 660 MW THERMAL POWER PLANT, TIRODA, GONDIA, MAHARASHTRA										
CEMS DATA for the Month- July'2020										
S.NO.	DATE	SOX(mg/nm ³)			NOX(mg/nm ³)			PM(mg/nm ³)		
		AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
1	1-Jul-20	Unit in shutdown condition								
2	2-Jul-20	Unit in shutdown condition								
3	3-Jul-20	Unit in shutdown condition								
4	4-Jul-20	Unit in shutdown condition								
5	5-Jul-20	Unit in shutdown condition								
6	6-Jul-20	Unit in shutdown condition								
7	7-Jul-20	Unit in shutdown condition								
8	8-Jul-20	Unit in shutdown condition								
9	9-Jul-20	Unit in shutdown condition								
10	10-Jul-20	Unit in shutdown condition								
11	11-Jul-20	Unit in shutdown condition								
12	12-Jul-20	Unit in shutdown condition								
13	13-Jul-20	Unit in shutdown condition								
14	14-Jul-20	Unit in shutdown condition								
15	15-Jul-20	Unit in shutdown condition								
16	16-Jul-20	Unit in shutdown condition								
17	17-Jul-20	Unit in shutdown condition								
18	18-Jul-20	Unit in shutdown condition								
19	19-Jul-20	Unit in shutdown condition								
20	20-Jul-20	Unit in shutdown condition								
21	21-Jul-20	Unit in shutdown condition								
22	22-Jul-20	Unit in shutdown condition								
23	23-Jul-20	Unit in shutdown condition								
24	24-Jul-20	Unit in shutdown condition								
25	25-Jul-20	Unit in shutdown condition								
26	26-Jul-20	Unit in shutdown condition								
27	27-Jul-20	Unit in shutdown condition								
28	28-Jul-20	Unit in shutdown condition								
29	29-Jul-20	Unit in shutdown condition								
30	30-Jul-20	Unit in shutdown condition								
31	31-Jul-20	Unit in shutdown condition								

ADANI POWER MAHARASHTRA LIMITED										
5 X 660 MW THERMAL POWER PLANT, TIRODA, GONDIA, MAHARASHTRA										
CEMS DATA for the Month of August'2020										
S.NO.	DATE	SOX(mg/nm ³)			NOX(mg/nm ³)			PM(mg/nm ³)		
		AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
1	1-Aug-20	Unit in shutdown condition								
2	2-Aug-20	Unit in shutdown condition								
3	3-Aug-20	Unit in shutdown condition								
4	4-Aug-20	Unit in shutdown condition								
5	5-Aug-20	Unit in shutdown condition								
6	6-Aug-20	Unit in shutdown condition								
7	7-Aug-20	Unit in shutdown condition								
8	8-Aug-20	Unit in shutdown condition								
9	9-Aug-20	Unit in shutdown condition								
10	10-Aug-20	Unit in shutdown condition								
11	11-Aug-20	Unit in shutdown condition								
12	12-Aug-20	Unit in shutdown condition								
13	13-Aug-20	Unit in shutdown condition								
14	14-Aug-20	Unit in shutdown condition								
15	15-Aug-20	Unit in shutdown condition								
16	16-Aug-20	Unit in shutdown condition								
17	17-Aug-20	Unit in shutdown condition								
18	18-Aug-20	Unit in shutdown condition								
19	19-Aug-20	Unit in shutdown condition								
20	20-Aug-20	Unit in shutdown condition								
21	21-Aug-20	Unit in shutdown condition								
22	22-Aug-20	Unit in shutdown condition								
23	23-Aug-20	Unit in shutdown condition								
24	24-Aug-20	Unit in shutdown condition								
25	25-Aug-20	Unit in shutdown condition								
26	26-Aug-20	Unit in shutdown condition								
27	27-Aug-20	Unit in shutdown condition								
28	28-Aug-20	Unit in shutdown condition								
29	29-Aug-20	Unit in shutdown condition								
30	30-Aug-20	Unit in shutdown condition								
31	31-Aug-20	Unit in shutdown condition								

ADANI POWER MAHARASHTRA LIMITED										
5 X 660 MW THERMAL POWER PLANT, TIRODA, GONDIA, MAHARASHTRA										
CEMS DATA for the Month of September'2020										
S.NO.	DATE	SOX(mg/nm ³)			NOX(mg/nm ³)			PM(mg/nm ³)		
		AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
1	1-Sep-20	Unit in shutdown condition								
2	2-Sep-20	Unit in shutdown condition								
3	3-Sep-20	Unit in shutdown condition								
4	4-Sep-20	Unit in shutdown condition								
5	5-Sep-20	Unit in shutdown condition								
6	6-Sep-20	Unit in shutdown condition								
7	7-Sep-20	Unit in shutdown condition								
8	8-Sep-20	Unit in shutdown condition								
9	9-Sep-20	Unit in shutdown condition								
10	10-Sep-20	Unit in shutdown condition								
11	11-Sep-20	861.17	841.19	886.79	252.67	243.1	265.29	40.56	38.31	42.79
12	12-Sep-20	867.8	844.96	890.38	255.3	243.96	266.45	41.09	38.79	43.29
13	13-Sep-20	Unit in shutdown condition								
14	14-Sep-20	Unit in shutdown condition								
15	15-Sep-20	Unit in shutdown condition								
16	16-Sep-20	911.79	877.84	971.62	268.26	253.46	291.19	43.65	40.69	48.24
17	17-Sep-20	904.21	882.23	946.48	265.64	255.37	278.35	43.13	41.07	45.67
18	18-Sep-20	905.02	877.38	965.51	266.52	253.32	289	43.31	40.66	47.8
19	19-Sep-20	912.66	882.98	952.7	268.59	257.66	281.74	43.71	41.53	46.35
20	20-Sep-20	900.59	872.67	952.93	264.12	251.81	282.82	42.8	40.36	46.56
21	21-Sep-20	928.77	883.95	969.1	274.3	256.09	290.13	44.91	41.22	48.03
22	22-Sep-20	911.96	878.66	964.99	268.63	254.41	287.98	43.75	40.88	47.6
23	23-Sep-20	909.72	873.11	943.86	267.96	252.31	280.5	43.56	40.46	46.1
24	24-Sep-20	923.31	883.9	955.16	272.01	257.24	285.58	44.44	41.45	47.12
25	25-Sep-20	914.81	875.31	967.63	268.07	253.21	288.99	43.6	40.64	47.8
26	26-Sep-20	899.33	875.3	942.52	264.37	253.33	279.33	42.85	40.67	45.87
27	27-Sep-20	908.78	872.04	962.12	266.97	251.95	286.39	43.38	40.39	47.28
28	28-Sep-20	918.16	880.49	964.25	270.59	255.21	287.47	44.1	41.04	47.49
29	29-Sep-20	925.89	871.25	965.94	272.51	251.67	287.77	44.51	40.63	47.55
30	30-Sep-20	927.68	874.68	974.33	273.29	253.13	291.69	44.66	40.63	48.34

**MINISTRY OF POWER
CENTRAL ELECTRICITY AUTHORITY
THERMAL CIVIL DESIGN DIVISION**

Monthly Abstract of Ash Generation and Utilization

(For the Period from April ,2020 to September ,2020)

Name of Power Utility: Adani Power Maharashtra Limited
Installed Capacity (Total): 3300 MW

Name of Thermal Power Plant: Tiroda Thermal Power Plant

PERIOD OF REPORT- April, 2020 to September, 2020

[All Quantities in Million Tonne]

Sl. No.	ASH GENERATION AND UTILIZATION						MODE OF ASH UTILIZATION AND UTILIZATION IN EACH MODE									
	Month	Coal consumed	Fly Ash content of coal	Fly Ash Generation	Fly Ash Utilization	% age Utilization	In making of Fly Ash based/ Bricks/ Blocks/ Tiles etc.	In manufacture of Portland Pozzolana Cement	In construction of Highways & Roads Including Flyovers	Part replacement of cement in concrete	In Hydro Power Sector in RCC Dam Construction	In Ash dyke raising	In reclamation of low lying Area	In Mine filling	In Agriculture/ Waste land Development	Others (Mount Formation in HCSD + Fine Ash Export)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1	Apr-20	1.27951	33.15	0.42416	0.26001	61.30	0.00461	0.00389	0.00539	0.00000	0.00000	0.00000	0.05120	0.00000	0.00000	0.19491
2	May-20	1.40316	32.71	0.45897	0.63400	138.13	0.00691	0.04559	0.00890	0.00000	0.00000	0.02500	0.47935	0.00000	0.00117	0.06708
3	Jun-20	0.70437	33.23	0.23406	0.38354	163.86	0.00482	0.09011	0.00588	0.00000	0.00000	0.00000	0.26594	0.00000	0.00138	0.01540
4	Jul-20	0.54526	32.98	0.17983	0.22406	124.60	0.00497	0.08422	0.00232	0.00000	0.00000	0.04900	0.07143	0.00062	0.00037	0.01113
5	Aug-20	0.54410	33.25	0.18091	0.14099	77.93	0.00343	0.07949	0.00102	0.00000	0.00000	0.00000	0.03604	0.00000	0.00000	0.02100
6	Sep-20	0.86547	32.27	0.27925	0.23825	85.32	0.00729	0.11876	0.00255	0.00000	0.00000	0.00000	0.09333	0.00000	0.00000	0.01632
TOTAL		5.34188	32.89	1.75718	1.88084	107.04	0.03202	0.42207	0.02607	0.00000	0.00000	0.07400	0.99730	0.00062	0.00293	0.32583

Abbreviations:-
MW-Mega Watt
TPS- Thermal Power Station
KM- Kilometre
MT- Million Tonne
Kcal- Kilocalories



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Annexure- V

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Page 1 of 2

ENV/SWT/2020-21/045/2

Date: 16.09.2020

ISSUED TO:

M/s ADANI POWER MAHARASHTRA LIMITED

Plot no. - A1, Tirora Growth Center, MIDC, Tirora,

Dist.: Gondia, Maharashtra – 441 911. India

Sample Particulars : Bottom Ash Sample

Sample Registration Date	: 1.09.2020	Analysis Starting Date	: 2.09.2020
Quantity received	: 2 kg	Analysis Completion Date	: 16.09.2020
Sample Type:	: Solid Waste	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Measurement Unit	Results
1	Alumina (as Al ₂ O ₃)	% by mass	19.74
2	Iron Oxide (as Fe ₂ O ₃)	% by mass	5.48
3	Silica (as SiO ₂)	% by mass	48.3
4	Reactive Silica	% by mass	0.0119
5	Magnesium Oxide (as MgO)	% by mass	1.67
6	Sulphur Trioxide (as SO ₃)	% by mass	0.080
7	Alkalies (as Na ₂ O)	% by mass	2.63
8	Chloride (as Cl)	% by mass	0.042
9	Loss on ignition (as LOI)	% by mass	0.007
10	Cadmium	mg/kg	0.12
11	Chromium	mg/kg	17.4
12	Arsenic	mg/kg	0.43
13	Mercury	mg/kg	0.041
14	Selenium	mg/kg	Nil
15	Cyanide	mg/kg	Nil
16	Cobalt	mg/kg	11.5
17	Copper	mg/kg	26.9
18	Lead	mg/kg	19.8
19	Molybdenum	mg/kg	Nil
20	Nickel	mg/kg	28.5
21	Tin	mg/kg	Nil

For Enviro Analysts & Engineers Pvt. Ltd.


Authorized Signatory

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout, Ambazari,
Nagpur - 440 010.

Pune Branch:
Flat No. 11,
Tarankit Co. Op. Hsg. Soc. Ltd.,
City S. No. 209. B/1. Sadashiv Peth

Lab :
Row House No. 2, Shalom Garden,
Opp. Kanakia College,
100 Feet Kanakia Road

Workshop :
Plot No. E - 122,
MIDC Tarapur,
Briar





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ENV/SWT/2020-21/045/2

Date: 16.09.2020

ISSUED TO:

M/s ADANI POWER MAHARASHTRA LIMITED

Plot no. - A1, Tirora Growth Center, MIDC, Tirora,

Dist.: Gondia, Maharashtra - 441 911. India

Sample Particulars : Bottom Ash Sample

Sample Registration Date	: 1.09.2020	Analysis Starting Date	: 2.09.2020
Quantity received	: 2 kg	Analysis Completion Date	: 16.09.2020
Sample Type:	: Solid Waste	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Measurement Unit	Results
22	Barium	mg/kg	303
23	Calcium	mg/kg	135881
24	Iron	mg/kg	41101.2
25	Zinc	mg/kg	54.1
26	Aluminium	mg/kg	104424.6
27	Manganese	mg/kg	118.8
28	Antimony	mg/kg	Nil
29	Beryllium	mg/kg	Nil

Note: 1. Results relate to tested sample only.
2. Test report should not be reproduced partially.

REMARKS: Based upon request of party sample was tested for above mentioned parameters only.

For Enviro Analysts & Engineers Pvt. Ltd.


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ENV/SWT/2020-21/045 /1

Date: 16.09.2020

ISSUED TO:

M/s ADANI POWER MAHARASHTRA LIMITED

Plot no. - A1, Tirora Growth Center, MIDC, Tirora,

Dist.: Gondia, Maharashtra - 441 911. India

Sample Particulars : Pond Ash Sample

Sample Registration Date	: 1.09.2020	Analysis Starting Date	: 2.09.2020
Quantity received	: 2 kg	Analysis Completion Date	: 16.09.2020
Sample Type:	: Solid Waste	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Measurement Unit	Results
1	Alumina (as Al ₂ O ₃)	% by mass	22.75
2	Iron Oxide (as Fe ₂ O ₃)	% by mass	4.41
3	Silica (as SiO ₂)	% by mass	59.30
4	Reactive Silica	% by mass	0.026
5	Magnesium Oxide (as MgO)	% by mass	1.23
6	Sulphur Trioxide (as SO ₃)	% by mass	0.081
7	Alkalies (as Na ₂ O)	% by mass	3.17
8	Chloride (as Cl)	% by mass	0.038
9	Loss on ignition (as LOI)	% by mass	0.057
10	Cadmium	mg/kg	0.21
11	Chromium	mg/kg	20.7
12	Arsenic	mg/kg	0.96
13	Mercury	mg/kg	0.088
14	Selenium	mg/kg	Nil
15	Cyanide	mg/kg	Nil
16	Cobalt	mg/kg	11.7
17	Copper	mg/kg	26.6
18	Lead	mg/kg	23.2
19	Molybdenum	mg/kg	Nil
20	Nickel	mg/kg	25.1
21	Tin	mg/kg	Nil

For Enviro Analysts & Engineers Pvt. Ltd.


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ENV/SWT/2020-21/045 /1

Date: 16.09.2020

ISSUED TO:
M/s ADANI POWER MAHARASHTRA LIMITED
Plot no. - A1, Tirora Growth Center, MIDC, Tirora,
Dist.: Gondia, Maharashtra – 441 911. India

Sample Particulars : Pond Ash Sample

Sample Registration Date	: 18.02.2020	Analysis Starting Date	: 21.02.2020
Quantity received	: 2 kg	Analysis Completion Date	: 14.03.2020
Sample Type:	: Solid Waste	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Measurement Unit	Results
22	Barium	mg/kg	282
23	Calcium	mg/kg	118456
24	Iron	mg/kg	30825.9
25	Zinc	mg/kg	49.3
26	Aluminium	mg/kg	120347.50
27	Manganese	mg/kg	119.6
28	Antimony	mg/kg	Nil
29	Beryllium	mg/kg	Nil

Note: 1. Results relate to tested sample only.
2. Test report should not be reproduced partially.

REMARKS: Based upon request of party sample was tested for above mentioned parameters only.

For Enviro Analysts & Engineers Pvt. Ltd.

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ENV/SWT/2020-21/045

Date: 16.09.2020

ISSUED TO:

M/s ADANI POWER MAHARASHTRA LIMITED

Plot no. - A1, Tirora Growth Center, MIDC, Tirora,

Dist.: Gondia, Maharashtra - 441 911, India

Sample Particulars : Fly Ash Sample

Sample Registration Date	: 1.09.2020	Analysis Starting Date	: 2.09.2020
Quantity received	: 2 kg	Analysis Completion Date	: 16.09.2020
Sample Type:	: Solid Waste	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Measurement Unit	Results
1	Alumina (as Al ₂ O ₃)	% by mass	24.12
2	Iron Oxide (as Fe ₂ O ₃)	% by mass	5.03
3	Silica (as SiO ₂)	% by mass	58.8
4	Reactive Silica	% by mass	0.031
5	Magnesium Oxide (as MgO)	% by mass	1.62
6	Sulphur Trioxide (as SO ₃)	% by mass	0.07
7	Alkalies (as Na ₂ O)	% by mass	3.22
8	Chloride (as Cl)	% by mass	0.038
9	Loss on ignition (as LOI)	% by mass	0.05
10	Cadmium	mg/kg	0.29
11	Chromium	mg/kg	19.6
12	Arsenic	mg/kg	1.07
13	Mercury	mg/kg	0.095
14	Selenium	mg/kg	Nil
15	Cyanide	mg/kg	Nil
16	Cobalt	mg/kg	15.8
17	Copper	mg/kg	26.6
18	Lead	mg/kg	21.7
19	Molybdenum	mg/kg	Nil
20	Nickel	mg/kg	24.9
21	Tin	mg/kg	Nil

For Enviro Analysts & Engineers Pvt. Ltd.

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ENV/SWT/2020-21/045

Date: 16.09.2020

ISSUED TO:

M/s ADANI POWER MAHARASHTRA LIMITED

Plot no. - A1, Tirora Growth Center, MIDC, Tirora,

Dist.: Gondia, Maharashtra – 441 911. India

Sample Particulars : Fly Ash Sample

Sample Registration Date	: 1.09.2020	Analysis Starting Date	: 2.09.2020
Quantity received	: 2 kg	Analysis Completion Date	: 16.09.2020
Sample Type:	: Solid Waste	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Measurement Unit	Results
22	Barium	mg/kg	284
23	Calcium	mg/kg	125106
24	Iron	mg/kg	35159.7
25	Zinc	mg/kg	55.3
26	Aluminium	mg/kg	127594.80
27	Manganese	mg/kg	130.3
28	Antimony	mg/kg	Nil
29	Beryllium	mg/kg	Nil

Note: 1. Results relate to tested sample only.
2. Test report should not be reproduced partially.

REMARKS: Based upon request of party, sample was tested for above mentioned parameters only.

For Enviro Analysts & Engineers Pvt. Ltd.


Authorized Signatory

ADANI POWER MAHARSHTRA LIMITED, TIRORA

Annexure-VI

GREEN BELT & PLANTATION DETAILS

Total Area Covered: 258 HA
Tree Planted: 513367 Nos.
Shrubs Planted: 59884 Sq. Meter
Green Carpet: 3, 22,194 Sq. Meter

Plant & Shrubs Species used for Green Belt Development

Shrubs	Tree Species
Bogunvella	Psidium guavajava (Amarud)
Rose	Punica granatum (Anar)
Furcaria	Manilkara zapota (Chikoo)
Cassia biflora	Phyllanthus emblica (Aonla)
Lagerstromia indica	Tamarindus indica (Imali)
Shrubs	Mangifera indica (Mango)
Flower Beds.	Lemon
Lawn	Carissa carandas
Exora Tall	Bottle Brush
Golden Ficus	Casuarina
Ficus panda	Samania saman
Group plants	Ficus religeosa
Nerium Bell (Yellow Ghanti Kanher)	Casia siamia
Hibiscus	Bauhinia purpuria
Musanda	Ficus bengalensis
Nolino	Delonix regia
Furcaria	Azadiracta Indica
Junifer	Spathodia
Ficus Golden	Peltaphorum
Ficus blackiana	Delonix regia
Headge	Acacia auriculiformis
	Jackranda
	Peltaphorum
	Neolamarckia cadamba
	Palms (Coconut, Fistal palm, Royal Palm, etc)
	Ficus Golden
	Rain Tree
	Mimusops elengii
	Cassia fistula
	Tectona grandis (Teak)
	Wad (Bargad)
	Peepal
	Nem
	Bamboo
	Satparni
	Gulmohar
	Australian babul





















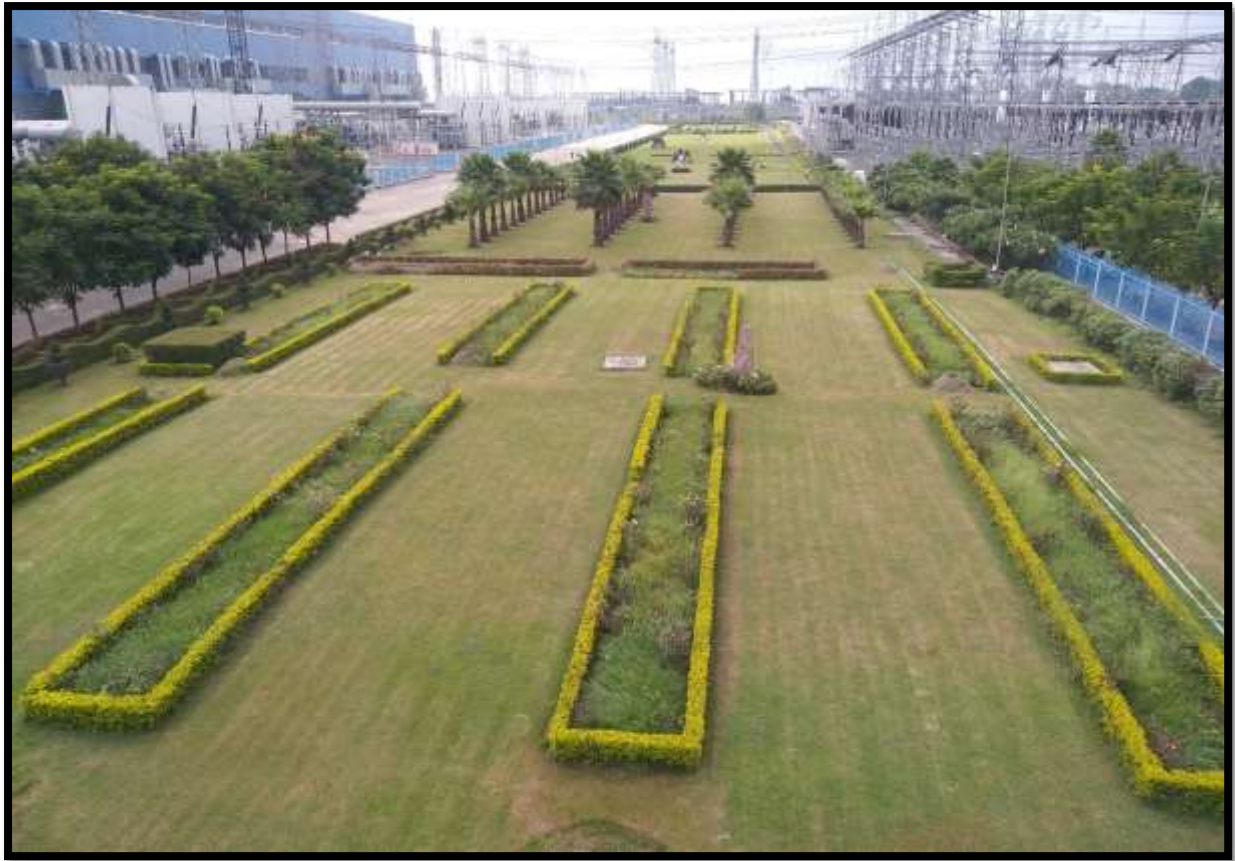


























Adani Foundation

CSR TIRODA

Six monthly report

(APR-SEP)

FY- 2020-21

1. Fight against COVID-19

On the backdrop of COVID-19 lockdown Adani Foundation provided essential support to needy. AF reached out to needy families and frontline worriers who were tackling the COVID-19 pandemic. We Supported Hospitals, Police Department & Government Offices. In COVID-19 pandemic most of the migrant labours do not have ration cards and facing difficulties to put food on the table. AF reached out to these families in need. 7635+ ration kits provided to daily migrant labors. Distributed 4920 3 ply mask, 574liter Liquid Handwash, Provided 1271Liter Sodium Hydrochloride Solution for sanitization in villages, 4320 Hand Gloves to Corona frontline workers, 475 N-95 masks distributed, 205 PPE kit to Government hospitals.



2. Mask Making and Distribution

To provide essential services during Corona Pandemic to needy people. In COVID-19 pandemic the mask plays a crucial role to protect from virus spread. In the peripheral villages there is a shortage of masks to fight the spread of COVID-19 pandemic. Thus to increase an availability of masks, Adani Foundation with the guidance of respected Mrs. Ratna K. Biswas madam initiated the process of making cotton cloths masks. The mask making order has been given to village women SHG members who are trained under Adani Foundations tailoring training. Now women are making three layered cotton cloth face masks for Adani Foundation. Through this initiatives women are also got the income source. Total 1734+ masks prepared by SHG women. Before the selling, all masks have been treated under Ultraviolet rays for disinfection. In peripheral villages, these 'UV Treated Three Layered Cotton Cloth Face Masks' distribution and selling are ongoing.



Special Activity

1. Birthday Celebration- Respected Dr. Priti Adani Ma'am

AF celebrated birthday of Respected Dr. Priti Adani Ma'am's on 29th August 2020. The birthday was celebrated with Tribal Community at Mangezari village. The Tribal youth have shown their joy and respect for ma'am by performing their Cultural Gondi Dance. We honored her as an '*ALTRUISTIC PERSON*'. To mark the celebration APML EVPs distributed blankets to Ghoti Villagers.



2. Van Mahotsav Saptah

Adani Foundation celebrated Van Mahotsav Saptah- Tree Plantation Festival- 2020 from 1st July- 7th July-20. On this occasion the 17-20 varieties of tree saplings were distributed in villages, the sapling includes Spathodia, Saptparni, Raintree, Karanj, Ritha, Neem, Tikoma, Amaltas, Bohaniya, Jackranda, Paltrafom, Behda, Pipal, Banyan, Bida, Bahunia, Gulmohar and other. Total 1570 saplings have been planted in nearby villages with the active participation of Grampanchayat and Villagers.



3. International Yoga Day Celebration-

Yoga plays an important role in promoting health in a holistic manner by improving physical, mental, emotional and spiritual health. A holistic approach, Yoga targets all the different systems of the body and mind. The international Yoga Day was celebrated on 21st Jun 2020 on the theme of "Yoga for Health- Yoga at Home" at Kashi Ghat, Garada by taking care of all the precautions & guidelines of COVID-19. With very few public gathering about 20 AF team and villagers practiced yoga under the guidance of Yoga Teacher- Abani Kumar Panigrahi-APML employee volunteer. Yoga session conducted with postures, breathing techniques and meditation. Young and elderly have shown a greater response and taken resolution to practice it in their daily lifestyle.

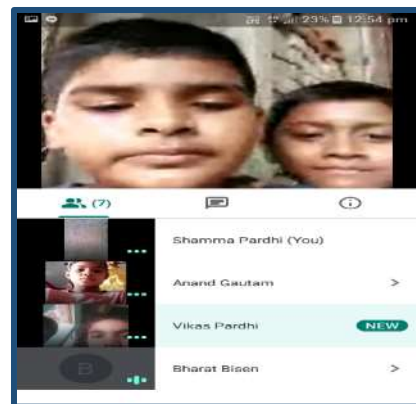


Yoga session conducted with postures, breathing techniques and meditation. Young and elderly have shown a greater response and taken resolution to practice it in their daily lifestyle.

I- Education

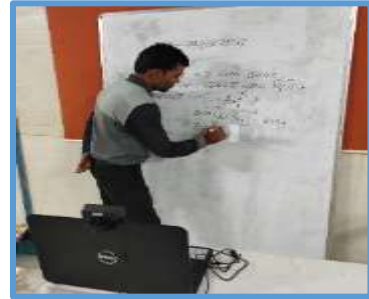
1. Navodaya Coaching Classes-

Navodaya Coaching Classes started to nurture talent from rural area and support talented students from deprived families to get into Navodaya School. AF has opened special coaching classes for these students in Government school. In COVID 19 Lockdown period, all schools and classes are closed, but to utilize students' time through effective way of learning, AF initiated take online Navoyada Coaching classes for enrolled students. Accordingly, the online classes have been started at Gumadhavda, Birsi and Kawlewada centers for 2020-21 batch. This FY 2020-21 total 34 students enrolled at 3 centers Birsi- 12, Gumadhawada-12 & Kawalewada-10. Daily 2 hours of online classes are conducted on Google meet application, Students are actively learning through online classes. Additionally teacher has also started doing one to one interaction with students & solving students' queries by maintaining social distancing.



2. Pre- Training of Youths for Army and Police services-

Pre- Training of Youths for Army and Police services started with an objective to transform young candidates into academically proficient, physically fit, mentally strong individuals bursting with energy and confidence and ready to face any challenge in life. AF conducted total 3 months training association with police department. Three months Pre-police training has benefitting the youths to appear in the Police and army services examination. Looking at previous positive results of trained youths, aspiring village youths are requested AF to start the online classes in this COVID-19 lockdown period. Thus, as per the request of youth, AF started online pre-police training classes with the support of Police Department. Total 100 students are attending the online training classes. The respective resource person teaching the exam syllabus online and conducts weekly online tests for the students.



3. Aamchi Shala Adarsh Shala Competition-

An interschool competition initiated to enhance the quality education of government Zilla Parishad School's through community participation. Started **ASAS-19-20** competition school evaluation which was on hold due to COVID-19 pandemic. The evaluation process completed as per the Samagra Shiksha, Z.P. Gondia education department letter. The District evaluation committee had completed school evaluation process of total 255 participated schools from 85 centres. 8 first ranked schools from 8 blocks evaluated for final result. Declared 4 winner schools from Tiroda, Sadak-Arjuni, Gondia and Deori Block. Two schools won the 1st prize.

st
1 - Z.P. Upper Primary School,
Kodelohara, Tiroda

st
1 - Z.P. Upper Primary School,
Parsodi, Sadak Arjuni



nd
2 Z.P. Upper Primary Hindi School,
Chipiya, Gondia

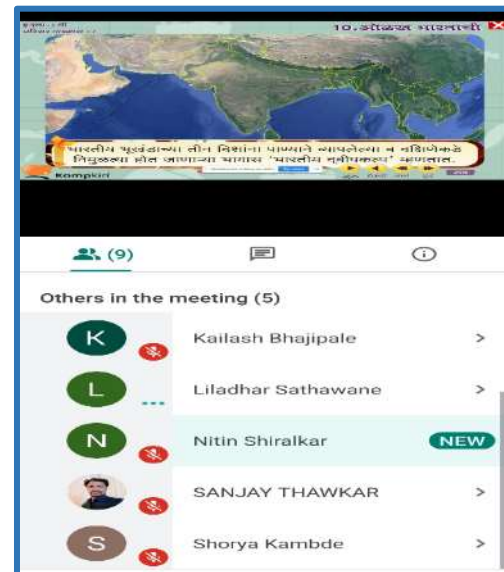
rd
3 Z.P. Upper Primary School, Sawali, Deori



Scholarship distributions for meritorious students have started to felicitate and appreciate the students who are doing well in their academics and also increased the participation of other students to excel in their studies and other exams. In this program we awards scholarship of Rs. 6000 per student/year to meritorious 10th class students for the period of 2 years who scored outstanding marks in SSC exam. This Quarter started Scholarship Process. After the declaration of SSC results, started the selection of 10th class meritorious students from nearby villages for scholarship distribution. Completed form distribution and form collection process. 80 forms collected from students.

5. E-Learning Package Distribution -

The E-Learning program (Gyan Jyoti) initiated as part of efforts in the Education head to modernize the education sector, exposure of rural students to new technologies aimed completely at improving the quality of learning & education in an innovative & interactive way. In this quarter with the start of this activity completed up-gradation of E-Learning syllabus in 45 schools. In COVID-19 pandemic teachers are taking online classes with the help of E-Learning kit. Block education officer has given the responsibility to school Techno-savvy teachers to take online classes through our E-learning kit syllabus at Cluster level.



II- Community Health

1. Mobile Health Care Unit (MHCU)-

Providing quality healthcare service at the doorstep of villages. Two MHCUs are operational – with partnership of Helpage India Organization. In COVID-19 pandemic situation 2 MHCUs are working for medical emergency which is transporting Corona Patients from villages to the treatment facilities- Hospital.

- Provided referral service to **1080** COVID-19 positive patients and their family members.
- In lockdown period MHCU benefitted **1563** patients (779-Male & 784-Female)
- The General category and Cardio vascular & life style disease patients were found more as compared to other diseases.
- Started treatment of B.P., Hypertension patients at village level.



2. Poor patient Assistant programme-

To provide financial assistance to deprived families in critical illness. For assisting poor patients the form collection process has been completed. Provided financial aid reimbursement to following patients.

1. Mr. Ashok Singanjude – Accident case
2. Mr. Chandrashekhhar Rasdas Gajbhiye- Brain Tumor
3. Mrs. Shyamklabai Manohar Chaudhary- Accident
4. Mr. Sudhor Baburao Singanjude- Accident case
5. Mr. Sunil Pardhi - Brain Paralysis



3. SuPoshan-

SuPoshan program working to eradicate malnourishment among children below five years of age, to improve health status in reproductive age women and adolescence girls. In COVID-19 pandemic, Sanginis continuously monitoring health situation of children, reproductive women, breastfeeding mothers and Adolescence girls. Sanginis spread awareness on social distancing, uses of mask, best hand-wash practices, and uses of Sanitizers.



3.1 World Menstrual Hygiene Day-



On the occasion of World Menstrual Hygiene Day, 28th May 2020, Sanginis had spread awareness on Menstrual Hygiene among the small group of Adolescence Girls by maintaining social distancing & adhering to the guidelines of COVID-19.

3.2 World Breastfeeding Week- Celebrated World Breastfeeding Week from 1st -7th August 20 on the theme of "Support breastfeeding for a healthier planet" by Sanginis, by taking all the COVID-19 norms. The awareness has been spread on best breastfeeding practices amongst the reproductive women and breastfeeding mothers.

- 466 beneficiaries covered.
- 132 Kitchen Garden seeds packets distributed.
- 41 participated in Drawing and essay/slogan competition on Breastfeeding
- 28 of lactating mothers and pregnant women counselled telephonically.



3.2 National Nutrition Month (SuPoshan Mah) - By taking all the precautions of COVID-19 norms, Sanginis celebrated National Nutrition month from 1st to 30th September 2020 in nearby 13 villages- Tiroda, Chikhali, Nimgaon Indora, Khadki, Aalezari, Pinkepar, Jamuniya, Chirekhani, Sukali, and Khamari. Nutrition month was celebrated on the theme of '*Eat Right, Bite by Bite*', on this occasion conducted activities like- Rangoli making- 6 participated, Drawing/Quiz competition- 5 participated, distributed 160 kitchen garden seeds packets to women, 12- Sanginis gave cooking demonstration on nutritious dishes, conducted Food exhibition in 6 villages and also conducted rally in 2 villages. To check the nutrition status completed Tele counselling of 69 women and children (Women- 25, Adolescent- 20 and children (0-5)-24.



4. Special Activity- Wheelchair Support to physically disable person-

Adani Foundation donated 9 electric Wheelchair to 9 physically disable persons. 6 villages benefitted.

Sr. No.	Name & Age	Wheelchair Type
1	Ms. Aarti M. Ninane (23)	E-Tricycle
2	Ms. Maithili M. Ninave (17)	Tricycle
3	Mr. Ashwajit Bansod (24)	Tricycle
4	Mr. Dinesh Rahangdale (27)	Tricycle
5	Mr. Yogeswar Lade (22)	Tricycle
6	Mr. Kisan M. Thakare (59)	Tricycle Manual
7	Mr. Jasdeo P. Chaudhari (45)	Tricycle Manual
8	Ms. Anita C. Patle (35)	E-Tricycle
9.	Mr. Walmik Kanhaji Thakare (52)	E-Tricycle



III- Sustainable Livelihood Development

1. Organic System Rice Intensification (SRI) – This year, to demonstrate implementation of 100% SRI principles we have developed SRI demonstration plots aiming to get maximum yield (more than 25-30qtl. /acre). However, deployed FPC as a SRI implementing agency under the guidance & support of AF and Agriculture department. Selected 37 progressive farmers from villages. With the start of monsoon, SRI paddy farming process had started in full swing. Now SRI paddy are at the seed bearing stage and Harvesting will start in month of Nov-20.

- AF distributed seeds 3kg per farmers.
- SRI transplantation training had gave to 40 women.
- Distributed Pheromone trap to all 37 farmers 2 each.
- Distributed 200lit Drum to 37 farmers for organic pesticides making.

By continuous monitoring farmers are maintaining water level after paddy transplantation.

- Farmers using shrub plant Senna tora (Tarota/Dhencha) leaves as a green manure in paddy field.
- Farmers completed the SRI Weeding Process.
- To control pesticides Spraying of Dashparni arc, Jivamrut & Aangiastra are ongoing as per the need.



2. Organic Based Integrated Farming-

Organic Based Integrated Farming started to increase economic source of small and marginal farmers through multi-cropping integrated organic based farming by optimum utilization of locally available resources. Lemon and Tur crops are planted as an organic integrated farming. However, it is planned to cultivate Mong Crop in summer season. The 8 farmers planted 880 PDKV Sarbati Lime Saplings and Tur (as an intercrops) over 8 acres of farmland. Now both crops are growing healthily.



- Completed farmer's selection & inaugurated organic based integrated farming.
- Completed land preparation and layout making and digging work for lemon saplings
- Planted Tur seeds and prepared nursery.
- Completed Tur & Lemon saplings plantation work.



3. Farmers Producer Company-(FPC) -

3.1 Milk Collection and Chilling Centre (MC&CC)-

Establish a Farmer's Centric and Functional Farmers Producer Organization on Milk processing Unit and to give marketing platform to the small scale farmers. Established three MC&CC at Jamuniya/Berdipar, Chikhali & Kawlewada. Completed the branding & Logo process of Dairy- Named Tiroda Farmers Producers Company Limited TFPCL'S-Anuradha Dairy- Milk Collection and Chilling Centre. Anuradha Dairy all 3 MC&CC are ready for functioning started milk collection at centers. Installed Khoya Machine, BMC, Adulterations Unit and other.



3.2 Established Agriculture Equipment bank – Adani Foundation has supported Tiroda Farmers Producer Company Ltd. For establishing Agriculture equipment bank to support local farmers. Initially tractor and its equipment purchased.



4. Animal Husbandry related Initiatives –

The objective is to develop livelihood of the farmers through breed improvement program. Two livestock development centers (LDC) are established in Khairbodi and Kawalewada which covered 26 villages. The LDCs are providing the services like Artificial Insemination (AI), Sorted Semen Sex (SSS) AI, and Pregnancy Diagnose (PD) as well as cattle health checkup camps.

	Activity	Apr-Sep 2020-21	Cumulative 2017-20
1	AI	708	3783
2	AI (Sorted Sex semen)	304	454
3	PD	583	1971
4	PD (Sorted Sex semen)	204	204
5	Fodder seeds	0	0
6	Meeting	0	0
7	Training	0	0
8	Cattle Health Check-up Camps	0	0
9	Calving	316	1050
10	SSS Calving	12 (Female, Male-0)	12
11	Hybrid Napier fodder	43	43



4.1 Cattle Vaccination in Villages- Lumpy skin disease (LSD) on cattle has started rapidly spreading in Tiroda block. It's an infectious, eruptive and occasionally fatal disease of cattle. It causes nodules on the skin and other part of the body. Thus, to prevent the cattle from this severe disease, Adani Foundation- LDC has started vaccination camps in villages. Thus completed vaccination of total 2740 cattle from 10 villages.



4.2 Fodder Crop Plantation-



Completed the plantation of Hybrid Nepier crop by 43 farmers.

4.3 Cow Based Livelihood-

Objective to promote organic farming and reduce the cost of cultivation and increase the production. Local Cow based farming in the villages which mainly focuses on utilization of Cow dung and Cow urine. This project has been implementing with the collaboration of Gou-Anusandhan Center, Devalapar. 12 farmers brought 11-Cows and 23-Bullocks from the center.



4.4. Lac Cultivation-

AF promoting scientific method of lac cultivation to the group of farmers who has access to Lac Host- Palas trees. 200 farmers are involved in Lac Cultivation, the scientific production method and continuous technical support made farmers to get more Lac Production. From one tree they are getting 4kg-5kg of lac, and also get good price and market at Gondia getting the price of Rs. 100-200/kg. In 2019-20, 200 farmers cultivated-1103 kg Lac from 6000 flame trees. Net Profit- Rs. 3992/farmer. Farmers cultivating 2nd round of lac over 6000.



5. Income generation activities



5.1 Lac Bangles Making – Adani Foundation Supporting 45 SHG women for Lac Bangle Making. Women are making new designs of lac Kada and Bangles. Lac Bangle making Programme are ongoing through Buy back. We have completed the registration process of “Aadhirakshi” brand of women farmer Producer Company on amazon.in, and selling is ongoing. Women are making it on demand by women from nearby villages. New designed ‘Veni Bangles, Stone and Multicolor Bangles are making on demand by women from nearby villages.

5.2 Agarbatti Production-

The objectives of program was Capacity building and economic development of women self-help groups. 20 Agarbatti Machines have been distributed in 6 villages (Garada, Ramatola, Tikaramtola, Mendipur, Gumadhawada, & Tiroda). AF also gave training on operation of machines. As a result total 60 women are making Agarbatti very skillfully. In COVID-19 lockdown period the Agarbatti Production has been increasing, beneficiaries are spending more time on producing Agarbatti and earning income from home only. In six months 34,281 Kg total Agarbatti Produced and sold in a rate of Rs. Rs. 20,00,709/-



5.3 Mushroom Cultivation: - Oyster Mushroom spawn making process has been started at Mushroom Spawn Unit & started to supply spawn in nearby villages SHG's and other beneficiaries. Oyster Mushroom spawn making process has been started at Mushroom Spawn Unit & started to supply spawn in nearby villages SHG's and other beneficiaries. The beneficiaries have started the Mushroom bed making process with the start of winter.

5.4 New Initiative- Purse making & selling –

Under the guidance of respected Mrs. Ratna K. Biswas madam, SHG women have initiated new design purse making activity. Shantigram- Navya Club women had gave an order to SHG women for purse making. SHG women has made total 60 new design purses as per the order. Through this initiative women SHG members learned the new skill to enhance their income sources.



Media Coverage



FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000028780

Submitted Date

29-09-2020

Company Information

Company Name

ADANI POWER MAHARASHTRA LIMITED

Application UAN number

0000094229

Address

PLOT NO A1, TIRODA GROWTH CENTER, MIDC
TIRODA, DIST. GONDIA

Plot no

PLOT NO A1

Taluka

TIRODA

Village

TIRODA

Capital Investment (In lakhs)

18476.48

Scale

LARGE

City

TIRODA

Pincode

441911

Person Name

KANTI BISWAS

Designation

STATION - HEAD

Telephone Number

07198253961

Fax Number

07198253971

Email

environment.tiroda@adani.com

Region

SRO-Bhandara

Industry Category

Red

Industry Type

R48 Thermal Power Plants

Last Environmental statement submitted online

yes

Consent Number

FORMAT 1.0/CAC/UAN/0000094229/CR2009000468

Consent Issue Date

09/09/2020

Consent Valid Upto

31/08/2021

Product Information

Product Name

Electricity Generation

Consent Quantity

3300 MW

Actual Quantity

23254390

UOM

Mwh

FLY ASH BRICKS

10000 nos./day

336000

Nos./Y

By-product Information

By Product Name

-

Consent Quantity

0

Actual Quantity

0

UOM

1) Water Consumption in m3/day

Water Consumption for Process

Consent Quantity in m3/day

26592

Actual Quantity in m3/day

1600

Cooling

163728

140307

Domestic

1440

1200

All others

100

335

Total

191860

143442

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	34205	24327	CMD
Domestic Effluent	192	163.1	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Power Generation	2.35 m3/mwh	2.26 m3/mwh	Mwh

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Coal	0.63	0.63	MT/MWH

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Furnace Oil	90 KLD	1.4 KLD AVERAGE	
LDO	95.52 KLD	1.3 KLD AVERAGE	

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
ZLD MAINTAINED	N.A.	N.A.	N.A.	N.A.	N.A.
ZLD MAINTAINED	N.A.	N.A.	N.A.	N.A.	N.A.

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
	Quantity	Concentration	%variation	Standard	Reason
PARTICULATE MATTER	2688	42.4	-	-	-
SO2	58627	925.48	-	-	--
NOx	17575	277.4	-	-	-

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	32.838	31.06	KL/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	301	300	Nos./Y
35.2 Spent ion exchange resin containing toxic metals	0.5	0.64	KL/A
35.3 Chemical sludge from waste water treatment	0.47	0.14	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	0.47	0.309	Ton/Y

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Bottom Ash	872762	963038	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
FLY ASH	3491050	3852155	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	-	-	set/month

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.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	40.80	KL/A	REPORT ATTACHED
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	300	Nos./Y	-
35.2 Spent ion exchange resin containing toxic metals	0.64	KL/A	-
35.3 Chemical sludge from waste water treatment	0.309	MT/A	-
35.3 Chemical sludge from waste water treatment	0.309	MT/A	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
ORGANIC WASTE	98 (AVERAGE)	Kg/Day	-
IN ORGANIC WASTE	4398 (AVERAGE)	Kg/Day	Plastic, Metal,Rubber,Wood
Paper waste	10 (AVERAGE)	Kg/Day	-

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Green Belt development	-	-	-	-	303.82	-
Unit#2 CEP pump DE-staging to reduce throttling loss	-	-	-	1.29 Mus /Year	-	-
Unit#1 Vacuum pump suction line modification to improve condenser vacuum	-	-	6835 MT coal savings/year	-	-	-

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Pollution control equipment O &M	ESP, Bag Filters Etc.	2397.33
Pollution Monitoring ,Study and analysis	Pollution Monitoring, Study and Analysis	96.81
Green belt Development	Green Belt Development	303.82
Rural Development/CSR	Rural Development	406.09
Legal & consent fees	Legal & Consent Fee	381.89
Training & Awareness	Training & Awareness	1.77
Waste Management	Waste Management	3495.69

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
INSTALLATION OF FGD	To achieve new emission norms of SO2	30000

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

? Environmental laboratory (NABL Accredited) has been established to monitor environmental parameters. ? Pollution monitoring and control equipment's established ? We are scientifically disposing domestic waste originated from canteen and guest houses from our plant through "Organic Waste Convertor" Machine which decomposes domestic waste into organic manure. ? Installed waste paper recycling machine inside the plant premises and waste papers are being recycled and used in house activates. ?

Name & Designation

Kanti Biswas - Station Head

WORLD ENVIRONMENT DAY' 2020

(Celebration from 1st June to 5th June'2020)

We at "Adani Power Maharashtra Limited" celebrated the World Environment week from 1st June to 5th June to create awareness amongst the employees and their family members by organizing the various competition seeking the pandemic Covid – 19 situation, with social distancing and without mass gathering. We have got the overwhelming response from our workers, employees and their family members for all the competition organized by Environment department. We have organize various competition by avoid mass gathering due to pandemic Covid Outbreak. The following competition were organized with plantation and antilittering pledge. The details of the programs are hereunder -

Slogan & Poster Competition:

Slogan and Poster competitions on theme of "Biodiversity Conservation" were organized for Employees, Family Members, AVT Students, Contract manpower, Approx. 250 Participations received.



"Love Biodiversity- be the hero for a better world."

MODEL COMPETITION FOR APML FAMILY MEMBERS AND STUDENTS

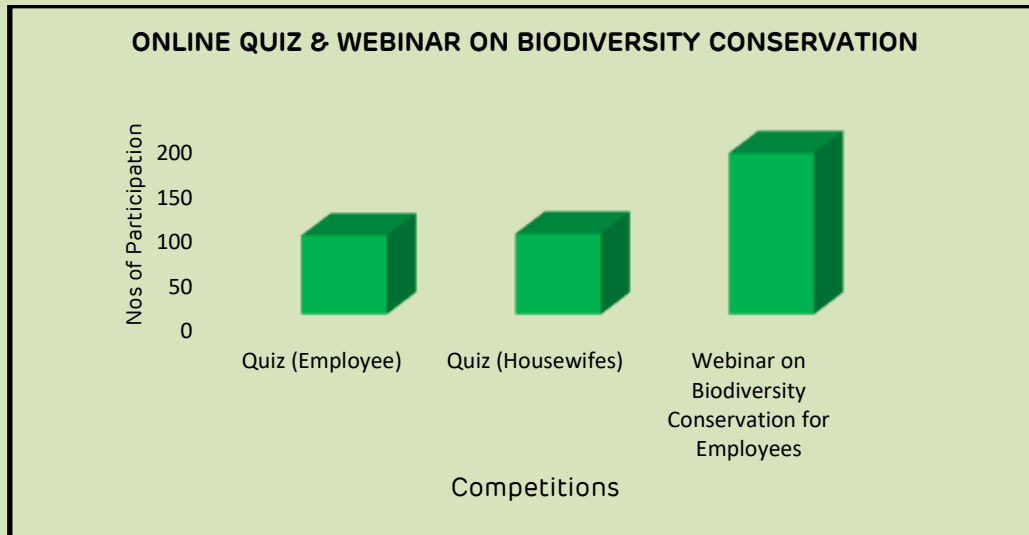
On the occasion of WED 2020, Model competition organized on Environment Protection for APML family members and AVT students. All the participants were very enthusiastic and very well explain about their model and keen to save our Environment.



"Love Biodiversity- be the hero for a better world."

Online Quiz Competition & Webinar on Biodiversity Conservation:

To maintain social distancing of pandemic COVID – 19 situation. We have organized Online Quiz and Webinar on Biodiversity Conservation for APML employees and their family members respectively. We have received an overwhelming response from employees and their family members. The total participation presented in Chart as below



WILD LIFE PHOTOGRAPHY COMPETITION

To increase awareness for conservation of Biodiversity, we have organized online photography for nature lovers, who always work for nature as their native responsibility. The photography is divide into 03 categories: Wildlife Portraits, Biodiversity Abstracts and Habitat and Landscapes. Each participant were submitted 03 photographs in each category. The feedback and participation of the photography contest was enthusiastic.

1. BIODIVERSITY ABSTRACT



"Love Biodiversity- be the hero for a better world."

2. LANDSCAPE & PORTRAIT



3. WILD LIFE PORTRAIT



PLANTATION AT SHANTIGRAM TOWNSHIP BY NAVYA LADIES CLUB

A symbolic plantation was organized inside APML Residential Complex. Members of Navya Ladies Club was planted around 40 Nos. of saplings inside the premises.



Plantation by President Navya Ladies Club



"Love Biodiversity- be the hero for a better world."

PLANTATION INSIDE APML PREMISES

A symbolic plantation program was also organized inside APML plant premises. During the plantation program 10 Nos. of saplings was planted by respected Station Head, O&M Head and Sr. officials.



PLANTATION BY STATION HEAD



PLANTATION BY HEAD O&M



PLANTATION BY SR. OFFICIALS OF APML TIRODA



"Love Biodiversity- be the hero for a better world."



adani  WORLD ENVIRONMENT DAY  environment programme

WORLD ENVIRONMENT WEEK 1st to 5th JUNE - 2020

BIODIVERSITY "TOGETHER WE CAN ACT #FOR NATURE"



ADANI POWER MAHARASHTRA LIMITED, TIRODA

THANK YOU

(STAY HOME.....STAY SAFE)

"Love Biodiversity- be the hero for a better world."



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

NABL / T-3287

06.08.2020

ARUN PRATAP SINGH
ENVIRONMENTAL LABORATORY, ADANI POWER MAHARASHTRA LIMITED
TIRODA Growth Centre, MIDC Area, Tiroda
GONDIA, MAHARASHTRA-441911
Mobile: 9545554938
E-mail: arunpratap.singh@adani.com

Subject: **Outcome of Desktop Surveillance Audit in accordance with ISO/IEC 17025:2017**

Dear Sir,

We are in receipt of the documents submitted for the desktop surveillance audit. The same has been reviewed.

We would like to inform you the continuation of accreditation of your laboratory in accordance with ISO/IEC 17025:2017 for the discipline of Chemical testing as per the existing scope. However, the laboratory is required to address the following within 30 days time:

- Lab to submit the revised list of CRMs with valid traceability details.

Being an accredited laboratory of NABL, you must fulfill all the terms and conditions laid down in our document NABL-131 (Current Issue). You are required to follow NABL-133 (Current Issue) for issuing NABL symbol.

The accreditation is subject to continued compliance of NABL norms during the accreditation period. The laboratory is required to submit the renewal application at least 6 months before expiry to maintain the continuity of accreditation.

Yours Sincerely,
Amit Kumar Sinha
amits@nabl.qcin.org

ASDC Tiroda Training and Placement Details													
S. N.	FY Year	Trade	Candidates Training								Drop Out Candidates	Total Trained	Total Placement
			ST	SC	Minority	OBC	Gen	Male	Female	Total			
1	2017-18	Welding Technician	125	0	0	0	0	125	0	125	2	123	117
2	2017-18	Assistant Electrician	116	0	0	0	0	116	0	116	5	111	95
3	2018-19	Welding Technician	30	18	2	0	0	50	0	50	5	45	45
4	2018-19	Assistant Electrician	11	14	5	0	0	30	0	30	2	28	26
5	2019-20	Welding Technician	45	25	0	59	4	133	0	133	11	122	112
6	2019-20	Assistant Electrician	30	28	0	65	9	132	0	132	10	122	114
7	2019-20	General Duty Assistant	36	27	0	27	15	0	105	105	2	103	88
8	2020-21	Welding Technician	2	0	0	8	0	10	0	10	0	10	3
9	2020-21	Assistant Electrician	3	7	0	36	2	48	0	48	0	48	26
Total			398	119	7	195	30	644	105	749	37	712	626

Digital Literacy Out-reach Training Program Total 256 Trained FY 2018-19

Digital Literacy Out-reach Training Program Total 1334 Trained FY 2019-20

Digital Literacy and other course Online Training Program Total 349 Trained FY 2020-21