



Power

Ref: APL/Tiroda/EMD/MoEFCC/EC/223/11/24
Date: 23/11/2024

To,
**The Additional Principal Chief Conservator of Forest
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 on Environmental Clearance of Residential Complex for Tiroda Thermal Power Plant, Gondia District, Maharashtra.**

Ref: Env. Clearance Letter No.- **SEAC-2212/CR-93/TC-2, dated 30.09.2014.**

Dear Sir,

With reference to the above subject, please find enclosed herewith Six-Monthly Environmental Clearance (EC) compliance status report of Residential complex along with environmental monitoring results and Greenbelt development etc. for the period of **April'2024 to September'2024** in soft (e-mail).

This is for your kind information & record please.

Thanking you

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

(R N Shukla)
Authorized Signatory

Encl: **As above**

CC:

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

**State Level Environment Impact Assessment
Authority (SEIAA), Maharashtra
Mumbai, Maharashtra**

**Member Secretary,
Maharashtra Pollution Control Board
Kalpataru Point, 2nd – 4th floor, Mumbai.**

**The Regional Officer,
Maharashtra Pollution Control Board
Regional Office, 5th Floor
Udyog Bhawan, Civil Lines, Nagpur, MH**

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SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE (EC)

For

Residential Complex
of
Tiroda Thermal Power Plant

At

Village Berdipar, Tirora, District Gondia
Maharashtra

Submitted to:

Integrated Regional Office, Nagpur
Ministry of Environment, Forest & Climate Change,
Central Pollution Control Board, New Delhi &
Maharashtra Pollution Control Board, Mumbai &
Regional office, Nagpur



Submitted By:

Environment Management Department

Adani Power Limited

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

PERIOD: APRIL'2024 - SEPTEMBER'2024

CONTENT

SL. No	Title	Annexures
1	Compliance Status of Environment Clearances (EC)	
List of Annexures		
2	Environmental Monitoring Report From April'2024 – September'2024 <ul style="list-style-type: none"> • Ambient Air Quality Report • Noise Level Monitoring Report • Sewage Water Analysis Report • Water Quality Monitoring Report • DG Stack Monitoring Report 	Annexure - I
3	Green Belt/Plantation Details	Annexure - II
4	Online Monitoring Facility installation at STP	Annexure - III
5	Environment Statement	Annexure - IV
6	Waste Processing Facilities (OWC, PRM, SWY)	Annexure - V
7	Training & Awareness for Source Segregation of waste	Annexure - VI
8	Roof Top Rainwater Harvesting System	Annexure - VII

Compliance Status on Environmental Clearance

for Residential Complex of Tiroda Thermal Power Plant at
Village Berdipar, Taluka Tiroda, District Gondia, Maharashtra

Letter No. SEAC-2212/CR-93/TC-2, dated 30.09.2014 and Transferred EC dated 04.09.2023.

Sl. No	EC Conditions	Compliance Status
(i)	This environmental clearance is issued subject to land use verification. Local authority/ planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. Judgments/orders issued by Hon'ble High Court, Hon'ble NGT, Hon'ble Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified. PP should submit exactly the same plans appraised by concern SEAC and SEIAA. If any discrepancy found in the plans submitted or details provided in above para may be reported to the environmental department. This environmental clearance issued with respect to environmental consideration, and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.	Complied, As per approved plan by Town and country planning, residential complex is constructed & established & verified by local authority.
(ii)	This environmental clearance is issued subject to obtaining NOC from forestry & Wildlife angle including clearance from standing committee of National Board for Wildlife as if applicable & this environment clearance does not necessarily implies that Forestry & Wild Life clearance granted to the project which will be considered separately on merit.	No forest land acquired & involved in a residential complex.
(iii)	PP has to abide by the conditions stipulated by SEAC & SEIAA. It is noted that the total waste generation @ 0.5 kg/day for maximum population of 2012 is 1006 kg/day. It is also noted the agreement made for collection, transportation, treatment and disposal of Biomedical waste dated 7 th Feb 2014. Note on CSR activity is noted and SEIAA stipulates the condition of setting up school up to 10 th standard near township.	Compliance Assured. In the reporting period, the average daily domestic waste generated is 236 kilograms, all waste is sorted into biodegradable and non-biodegradable categories. Biodegradable waste is converted to produce compost using Organic Waste Convertor machine and produced manure is being used for green belt and horticulture development. During April to Sept - 2024, 36.97 MT of non-biodegradable waste being recycled/reused through local recyclers.
(iv)	The height, Construction built up area of proposed construction shall be in	FSI/FAR norms have been complied.

	accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with the survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure that zoning permissibility for the proposed project as per the approved development plan of the area.	
(v)	"Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at site.	Complied. Consent to Establish has already been obtained from Maharashtra Pollution Control Board under Air and Water Act vide consent order No. BO/RO-HQ/EIC-NG-1186-14/CE/CC-5096 dated 02.05.2015.
(vi)	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Complied.
(vii)	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.	Complied. Sewage treatment plant established and is operational with online monitoring facility of COD, BOD & TSS. Treated water being reused in green belt development. Environmental monitoring report and Online monitoring system photograph enclosed as Annexure – I and III respectively. Source segregation of domestic waste Into Bio-degradable & non-biodegradable is carried out. Various awareness sessions conducted at township for housewives, housemaids and waste handling staffs. Separate dust bins for each household provided for source segregation of domestic waste. Photographs of Solid waste management practices and awareness sessions are enclosed as Annexure – V & VI Green belt has been developed in 7.05 ha area. Enclosed as Annexure – II. All relevant certificates obtained from appropriate authority.
(viii)	Provision shall be made for housing of construction labor 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 and First Aid Room etc.	Complied.
(ix)	Adequate drinking water and sanitary facilities should be provided for construction	Complied.

	workers at site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	
(x)	The solid waste generated should be properly collected and segregated, dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	Complied Solid waste yard developed for segregation and storage of organic & in-organic materials and disposal is being done as per MSW rules & guidelines. Source segregation of domestic waste into Bio-degradable & non-biodegradable is carried out. Various awareness sessions conducted at township for housewives, housemaids and waste handling staffs. Separate dust bins for each household provided for source segregation of domestic waste.
(xi)	Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in existing premises for gardening. And no wet garbage will be disposed outside the premises. Local authority should ensure this.	Being complied. Kitchen waste is being disposed-off through Organic waste convertor machine which converts organic waste into manure. Manure is being utilized in green belt/horticulture development. Photographs of Organic Waste Converter machine and Solid waste Management yard is enclosed as Annexure - V
(xii)	Arrangement shall be made that wastewater and storm water do not get mixed.	Being Complied Domestic wastewater is being conveyed through closed pipelines to STP for treatment and being reutilized within the premises. Separate storm water drains are established.
(xiii)	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Complied.
(xiv)	Additional soil for leveling of 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.
(xv)	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	Complied. Thick plantation by selecting indigenous species carried out as per CPCB guidelines and in consultation with the local DFO/Agriculture Dept. We are maintaining >33% green belt development, especially all

		around the periphery of the residential complex and on the roadsides, preferably with local species, to provide protection against particulate matter and noise. The open space inside the township is landscaped and covered with green vegetation is enclosed as Annexure - II
(xvi)	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Complied.
(xvii)	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Complied. We are using River water for drinking and domestic uses. No ground water is required at the residential Complex.
(xviii)	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourse and the dumpsites for such material must be secured so that they should not leach into ground water.	Complied.
(xix)	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of Maharashtra Pollution Control Board.	Complied.
(xx)	The diesel generator sets to be used during construction phase should be low sulfur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	DG set Provided. DG sets are proposed to be used only in case of blackout. The chances are very remote as the power supply is from the regular station transformer of APL. Blackouts can happen only in case of grid failure and transmission line failure.
(xxi)	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	Noted. The minimum diesel for DG set operation is being stored in HDPE drums at an isolated area.
(xxii)	Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	All the vehicles used for construction materials supply were in good condition and PUC certificate ensured and other applicable norms maintained.
(xxiii)	Ambient noise levels should conform to residential standards both during day and	Complied. Ambient Air quality and Noise level are

	night. Incremental pollution loads on ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.	being monitored regularly. DG stack monitoring is also being done periodically. Environmental Monitoring report is enclosed as Annexure - I
(xxiv)	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27 th August, 2003. (The above condition applicable only if the project site is located within the 100Km of Thermal Power Stations).	Complied, We used fly ash bricks/blocks in our construction activities. We have also installed Fly Brick/paver blocks making units at Power Plant to meet our requirements
(xxv)	Ready mixed concrete must be used in building construction.	Complied.
(xxvi)	The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of firefighting equipment's etc. as per National Building Code including measures from lighting.	Complied. All required NOCs, Consents & permission already obtained & are available
(xxvii)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Complied. Separate storm water drainage system is already provided and facility for rainwater harvesting is being developed to maximum re-use of rainwater.
(xxviii)	Water demand during construction should be reduced by use of pre-mixed concrete curing agents and other best practiced referred.	Complied.
(xxix)	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	Ground water samples from nearby village and ground water table are being monitored regularly. Rainwater harvesting practice is adopted. Rooftop harvesting structures established, Around 3534m ³ rainwater harvested during April - September' 2024. Rainwater harvesting detail is enclosed as Annexure - VII.
(xxx)	The installation of Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharged in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Treatment of 100% gray water by decentralized treatment should be done.	Domestic wastewater treated suitably in STP and being used in green belt development. Regular maintenance is being carried out to mitigate odour or any nuisance. We regularly monitor and analyze STP treated water quality and submit monthly monitoring reports to SRO, MPCB Bhandara. and reports are enclosed as Annexure - I.

	Necessary measures should be made to mitigate the odour problem from STP.	
(xxxix)	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	Noted. STP is already operational and Solid waste Management practices are in place. Separate dust bins (Biodegradable and Non- biodegradable) have been provided to each Flat & Block for source segregation and being disposed-off as per MSW guidelines.
(xxxix)	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	Not required. Water is being sourced from Power Plant (APL) to cater requirement of township residents.
(xxxix)	Separation of gray and black water should be done by use of dual plumbing line for separation of gray and black water.	A dual plumbing line is provided for separation of gray and black water.
(xxxix)	Fixtures for showers, toilets flushing and drinking should be of low flow either by use of aerators or pressure-reducing devices or sensor-based control.	Complied.
(xxxix)	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Complied.
(xxxix)	Roof should meet prescriptive requirements as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Complied.
(xxxix)	Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project design and should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use solar streetlights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as a source of energy.	Energy conservation practices adopted. LED lights have been provided. On expiry of its product life, the same is being disposed through authorized collection centers as per the guidelines of E-Waste Notification, Solar Street lights are also installed at township.
(xxxix)	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under Environment (Protection) Act, 1986/ the height of stack of DG sets should be equal to height needed for	Complied. The height of DG set stack is more than 6.5 meters from roof top. Low Sulphur fuel is being used.

	the combined capacity of all proposed DG sets. Use low Sulphur diesel. The location of the DG sets may be decided in consultation with Maharashtra Pollution Control Board.	
(xxxix)	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night-time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Being complied. Noise monitoring report is enclosed as Annexure - I.
(xl)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized, and no public space should be utilized.	Parking was completely internalized, and no public space utilized. Care taken has been taken to ensure no traffic congestion at the entry and exit points.
(xli)	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement	Complied.
(xlii)	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Adequate distance between the two buildings is maintained to allow movement of fresh air, passes of natural light, air and ventilation.
(xliii)	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	No disturbance observed in the surroundings due to construction of residential complex. During construction period regular supervision done.
(xliv)	Under the provision of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environment clearance.	Complied No construction was started before obtaining Environmental Clearance. "Consent to Establish" & Consent to Operate obtained from Maharashtra Pollution Control Board.
(xlv)	Six monthly monitoring reports should be submitted to the Regional Office MoEF, Bhopal with copy to this department and MPCB.	Being complied. The last Six-monthly report for the period of Oct'2023 to March'2024 was submitted to MoEF&CC/CPCB/MPCB vide letter no. APL/Tiroda/EMD/MoEF/EC/282/05/24 dated 22.05.2024.
(xlvi)	A complete set of all the documents submitted to Department should be forwarded to Local authority and MPCB.	Complied.
(xlvii)	In case of any change(s) in the scope of the project, the project would require fresh appraisal by this Department.	Noted & agreed.
(xlviii)	A separate environment management cell	We have already established the

	with qualified staff shall be set up for the implementation of the stipulated environmental safeguards.	Environment Management Department headed by GM and supported by Env. Manager, Chemist & Horticulturist at Tiroda TPP.
(xlix)	Separate funds shall be allocated for the implementation of environmental protection measures/EMP along with item-wise break-up. This cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purposes and year-wise expenditure should reported to MPCB & this department.	A separate fund has already been allocated and is being utilized for Environmental Protection measures.
(i)	The project management shall advertise at least in two local newspaper widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in .	Complied.
(ii)	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 st June & 1 st December of each calendar year.	Six monthly compliance reports are regularly submitted to MoEFCC, CPCB & MPCB.
(iii)	A copy of the clearance letter shall be sent by proponent to concerned Municipal Corporation and the local NGO, if any, from whom suggestion/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on website of the Company by the proponent.	Complied.
(liii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update same periodically, It shall simultaneously be sent to Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. The criteria pollutant levels namely SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at convenient location near main gate of the company in the public domain.	Complied. We have regularly monitored Ambient Air Quality and submitted monthly monitoring report to SRO, MPCB and enclosed as Annexure - I.
(liv)	The project proponent shall also submit six	Six monthly reports on the status of

	<p>monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to respective Regional Office of MoEF, the respective zonal office of CPCB and the SPCB.</p>	<p>compliance of the stipulated EC conditions along with monitoring reports are being submitted to MoEFCC, CPCB & MPCB. The last Six-monthly report for the period of Oct'2023 to March'2024 was submitted to MoEFCC, CPCB, MPCB vide letter no. APL/Tiroda/EMD/MoEF/EC/282/05/24 dated 22.05.2024.</p>
(iv)	<p>The environmental statement for each financial year ending 31st March in Form-V as in 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 shall be sent to the respective Regional Offices of MoEF by e-mail.</p>	<p>Environment Statement for F.Y 2023 – 24 filed online to MPCB portal dated 21.09.2024 is enclosed as Annexure – IV</p>

Residential Complex of Adani Power Limited

(Vill. Berdipar, Tiroda, Gondia)

Ambient Air Quality Data

(In-House Monitoring)

Sampling Station/ Location		Near Quarter 'A' Block (1-12)				Near Quarter 'M' Block(145-156)			
Sampling Date	Analysis Starting Date	Parameters				Parameters			
		PM 10 µg/m ³	PM 2.5 µg/m ³	SO ₂ µg/m ³	NO _x µg/m ³	PM 10 µg/m ³	PM 2.5 µg/m ³	SO ₂ µg/m ³	NO _x µg/m ³
25.04.2024	26.04.2024	31.3	18.6	7.5	14.2	37.1	22.5	8.3	13.3
10.05.2024	11.05.2024	44.2	24.8	9.1	12.5	46.3	26.7	8.1	13.2
07.06.2024	08.06.2024	42.3	27.3	8.7	12.0	38.1	24.7	7.1	13.1
05.07.2024	06.07.2024	34.7	20.8	7.7	10.8	36.7	18.3	8.2	14.1
09.08.2024	10.08.2024	27.6	17.6	8.1	12.5	26.1	15.9	9.1	18.8
13.09.2024	14.09.2024	30.9	14.7	11.1	19.8	24.2	13.8	10.1	17.4
Max		44.2	27.3	11.1	19.8	46.3	26.7	10.1	18.8
Min		27.6	14.7	7.5	10.8	24.2	13.8	7.1	13.1
Average		35.2	20.6	8.7	13.6	34.8	20.3	8.5	15.0
NAAQMS Standard	24 Hourly	100	60	80	80	100	60	80	80
	Annual	60	40	20	30	60	40	20	30

Note :-

1. Schedule monitoring not done due to rain on 18-19.08.2023, 08-09.09.2023 and 15-16.10.2023
2. Tested results are well within the permissible limits of National Ambient Air Quality Monitoring Stanadard (NAAQMS)
3. The data is referring only to the tested sample and for applicable parameter and report submitted to MPCB Board monthwise
4. This data is not to be reproducing wholly or in part, and can't be used as evidence in court of law.

Residential Complex of Adani Power Limited
(Vill. Berdipar, Tiroda, Gondia)

Noise Monitoring Data
(In-House Monitoring)

A		Day Time in dB(A) (06:00 AM to 10:00 PM)					
SI	Locations	Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sept'24
1	Near Bachelor Hostel	43.0	41.0	40.5	45.6	39.1	40.0
2	Near Main gate	52.2	51.2	50.6	50.3	50.2	50.6
3	Near officer Club	40.0	38.0	38.4	39.1	41.3	36.4
4	Near Health Center	38.7	40.7	40.4	39.0	36.2	35.0
5	Near Cricket Ground	43.8	42.8	41.6	47.5	45.7	42.9
CPCB Standards (Industrial Area)		55 (dBA) Leq					

B		Night Time in dB (A) (10:00PM to 06:00 AM)					
S. No	Locations	Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sept'24
1	Near Bachelor Hostel	34.2	37.3	34.9	38.0	36.5	34.7
2	Near Main gate	43.1	41.7	43.3	41.3	40.2	39.4
3	Near officer Club	34.5	35.4	34.2	34.2	36.2	33.1
4	Near Health Center	33.8	37.4	37.1	37.0	34.4	32.0
5	Near Cricket Ground	37.9	39.6	35.6	39.9	39.1	38.3
CPCB Standards (Industrial Area)		45 (dBA) Leq					

**Residential Complex of Adani Power Limited
(Vill. Berdipar, Tiroda, Gondia)**

**Wastewater Analysis Report of Township STP
(In-House Monitoring)**

SI	Parameters	Unit	MPCB Standards	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
1	pH	-	6.5-9.0	7.2	8.5	7.9	7.0	7.8	7.5
2	TSS	mg / l	20	16.0	19.1	18.0	16.0	16.0	17.0
3	COD	mg / l	50	38.4	24.5	33.0	36.0	29.4	29.8
4	BOD at 27 OC for 3 days	mg / l	10	8.0	8.0	7.0	7.5	6.0	6.0
5	Ammonium Nitrogen (NH ₄ N)	mg / l	5	2.7	3.2	2.5	2.7	2.7	3
6	N - Total	mg/l	10	4.8	5.2	5.9	4.8	4.8	4.8
7	Fecal Coliform	(mpn/100 ml)	100	12	10	15	12	12	22

Note :- Test Methods,

TSS - APHA-24th - 2540 D,

COD-APHA-24th Ed 2017- 5220B Open Reflux Method,

BOD (at 27OC for 3 days) - IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C,

pH - APHA-24th -4500-H+B Electrometric Method

EAEPL/WW/2024-25/076/6

Date: 3.10.2024

ISSUED TO:**M/s. ADANI POWER LTD.,
Tirora, Growth Center,
MIDC, Gondia – 441 911.****Sample Particulars:** Township STP water

Sample Collection Date	: 21.09.2024	Analysis Starting Date	: 22.09.2024
Quantity received	: 2 ltr	Sampled by	: EAEPL Representative

TEST RESULT

Sr. No.	Parameters	Measurement Unit	MPCB limit	Result
				STP Outlet
1	pH	-	6.5-9.0	7.70
2	TSS	mg / l	< 20	18
3	COD	mg / l	< 50	39.8
4	BOD (3 days)	mg / l	< 10	7.7
5	Ammonical Nitrogen	mg / l	< 5	1.80
6	N-Total	mg / l	< 10	2.66
7	Fecal Coliform	mpn/100ml	< 100	70

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

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

For Enviro Analysts & Engineers Pvt. Ltd.**Authorized Signatory**

EAEPL/DW/2024-25/076/1

Date: 3.10.2024

ISSUED TO:
**M/s. ADANI POWER LTD.,
Tirora, Growth Center,
MIDC, Gondia – 441 911.**
Your Ref : As per Work Order 5700324724
Date : 26.04.2023
Sample Particulars :Drinking water
Location of sample :Pump House at Town Ship

Sample Collection Date : 21.09.2024

Analysis Starting Date : 22.09.2024

Quantity received : 2 ltr

Sampled by : EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
1	Apparent Colour	Hazen units	IS : 3025 (Part 4)-2021	5	15	0.1
2	Odour	-	IS : 3025 (Part 5)-2018	Agreeable	Agreeable	Agreeable
3	Taste	-	IS : 3025 (Part 8)-1984	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	NTU	IS : 3025 (Part 10)-2023	1	5	0.1
5	Total Dissolved Solid	mg / l	IS 3025 (Part 16) 1984 Reaffirmed 2017	500	2000	126
6	Electrical Conductivity	µS/cm	-	-	-	206
7	Total Alkalinity	mg / l	IS 3025 (Part 23) 2023	200	600	112
8	pH Value at 25°C	-	IS : 3025 (Part 11)-2022	6.5 to 8.5	No relaxation	7.65
9	Total Hardness (CaCO ₃)	mg / l	IS : 3025 (Part 21)-2009 Reaffirmed 2019	200	600	92
10	Calcium (as Ca)	mg / l	IS : 3025 (Part 40)-1991 Reaffirmed 2019	75	200	28.0
11	Magnesium (as Mg)	mg / l	IS : 3025 (Part 46)-1994	30	100	5.3
12	Copper as(Cu)	mg / l	IS : 3025 (Part II)-2019	0.05	1.5	< 0.01
13	Iron (as Fe)	mg / l	IS : 3025 (Part II) 2019	0.3	No relaxation	0.063
14	Manganese as (Mn)	mg / l	IS : 3025 (Part II) 2019	0.1	0.3	< 0.01
15	Chlorides (as Cl)	mg / l	IS : 3025 (Part 32)-1988 Reaffirmed 2019	250	1000	11.4
16	Sulphate (as SO ₄)	mg / l	IS : 3025 (Part 24)sec-1:2022	200	400	10.0
17	Nitrates (as NO ₃)	mg / l	APHA 4500 B (24 th Edition)	45	No relaxation	2.00
18	Fluoride (as F)	mg / l	APHA 4500 F, D (24 th Edition)	1.0	1.5	0.20

For ENVIRO ANALYSTS & ENGINEERS PVT. LTD.



Authorized Signatory

EAEPL/DW/2024-25/076/1

Date: 3.10.2024

ISSUED TO:
**M/s. ADANI POWER LTD.,
Tirora, Growth Center,
MIDC, Gondia – 441 911.**
**Your Ref : As per Work Order 5700324724
Date : 26.04.2023**
Sample Particulars :Drinking water
Location of sample :Pump House at Town Ship
**Sample Collection Date : 21.09.2024
Quantity received : 2 ltr**
**Analysis Starting Date : 22.09.2024
Sampled by : EAEPL Representative**
TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
19	Phenolic Compounds	mg / l	IS : 3025 (Part 43) 2019	0.001	0.002	BDL
20	Mercury as (Hg)	mg / l	IS : 3025 (Part II) 2019	0.001	No relaxation	< 0.0005
21	Cadmium as (Cd)	mg / l	IS : 3025 (Part II) 2019	0.003	No relaxation	< 0.001
22	Selenium as (Se)	mg / l	IS : 3025 (Part II) 2019	0.01	No relaxation	< 0.001
23	Arsenic as (As)	mg / l	IS : 3025 (Part II) 2019	0.01	0.05	BDL
24	Cyanide as (CN)	mg / l	IS : 3025 (Part II) 2019	0.05	No relaxation	< 0.005
25	Lead as (Pb)	mg / l	IS : 3025 (Part II) 2019	0.01	No relaxation	< 0.001
26	Zinc as (Zn)	mg / l	IS : 3025 (Part II) 2019	5	15	0.011
27	Total Chromium as (Cr)	mg / l	IS :3025(Part 52)-2019	0.05	No relaxation	< 0.03
28	Mineral Oil	mg / l	IS : 3025 (Part 39)-2021	0.05	No relaxation	< 0.01
29	Residual Chlorine	mg / l	IS : 3025 (Part 26)-2021	0.2	1.0	0.20
30	Total Coliform	MPN/100 ml	IS : 15185-2016 Reaffirmed 2021	Absent	Absent	Absent
31	E. Coli	Nos./100 ml	IS : 15185-2016 Reaffirmed 2021	Absent	Absent	Absent

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

REMARKS: Sample was tested for above mentioned parameters only. As per IS: 10500 : 2012, Analysis result indicating that sample quality is suitable for drinking purpose.

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

Authorized Signatory

EAEPL/DW/2024-25/076/2

Date: 3.10.2024

ISSUED TO:
**M/s. ADANI POWER LTD.,
Tirora, Growth Center,
MIDC, Gondia – 441 911.**
**Your Ref : As per Work Order 5700324724
Date : 26.04.2023**
Sample Particulars : Drinking Water
Location of sample : ANT School at Township

Sample Collection Date : 21.09.2024

Analysis Starting Date : 22.09.2024

Quantity received : 2 ltr

Sampled by : EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
1	Apparent Colour	Hazen units	IS : 3025 (Part 4)-2021	5	15	0.1
2	Odour	-	IS : 3025 (Part 5)-2018	Agreeable	Agreeable	Agreeable
3	Taste	-	IS : 3025 (Part 8)-1984	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	NTU	IS : 3025 (Part 10)-2023	1	5	0.1
5	Total Dissolved Solid	mg / l	IS 3025 (Part 16) 1984 Reaffirmed 2017	500	2000	122
6	Electrical Conductivity	µS/cm	-	-	-	198
7	Total Alkalinity	mg / l	IS 3025 (Part 23) 2023	200	600	95
8	pH Value at 25°C	-	IS : 3025 (Part 11)-2022	6.5 to 8.5	No relaxation	7.62
9	Total Hardness (CaCO ₃)	mg / l	IS : 3025 (Part 21)-2009 Reaffirmed 2019	200	600	82
10	Calcium (as Ca)	mg / l	IS : 3025 (Part 40)-1991 Reaffirmed 2019	75	200	26.2
11	Magnesium (as Mg)	mg / l	IS : 3025 (Part 46)-1994	30	100	4.0
12	Copper as(Cu)	mg / l	IS : 3025 (Part II)-2019	0.05	1.5	< 0.01
13	Iron (as Fe)	mg / l	IS : 3025 (Part II) 2019	0.3	No relaxation	0.058
14	Manganese as (Mn)	mg / l	IS : 3025 (Part II) 2019	0.1	0.3	< 0.01
15	Chlorides (as Cl)	mg / l	IS : 3025 (Part 32)-1988 Reaffirmed 2019	250	1000	9.5
16	Sulphate (as SO ₄)	mg / l	IS : 3025 (Part 24)sec-1:2022	200	400	7.4
17	Nitrates (as NO ₃)	mg / l	APHA 4500 B (24 th Edition)	45	No relaxation	2.00
18	Fluoride (as F)	mg / l	APHA 4500 F, D (24 th Edition)	1.0	1.5	0.20

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

Authorized Signatory

EAEPL/DW/2024-25/076/2

Date: 3.10.2024

ISSUED TO:
**M/s. ADANI POWER LTD.,
Tirora, Growth Center,
MIDC, Gondia – 441 911.**
**Your Ref : As per Work Order 5700324724
Date : 26.04.2023**
**Sample Particulars : Drinking Water
Location of sample : ANT School at Township**

Sample Collection Date	: 21.09.2024	Analysis Starting Date	: 22.09.2024
Quantity received	: 2 ltr	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
19	Phenolic Compounds	mg / l	IS : 3025 (Part 43)-2019	0.001	0.002	BDL
20	Mercury as (Hg)	mg / l	IS : 3025 (Part II) 2019	0.001	No relaxation	< 0.0005
21	Cadmium as (Cd)	mg / l	IS : 3025 (Part II) 2019	0.003	No relaxation	< 0.001
22	Selenium as (Se)	mg / l	IS : 3025 (Part II) 2019	0.01	No relaxation	< 0.001
23	Arsenic as (As)	mg / l	IS : 3025 (Part II) 2019	0.01	0.05	BDL
24	Cyanide as (CN)	mg / l	IS : 3025 (Part II) 2019	0.05	No relaxation	< 0.005
25	Lead as (Pb)	mg / l	IS : 3025 (Part II) 2019	0.01	No relaxation	< 0.001
26	Zinc as (Zn)	mg / l	IS : 3025 (Part II) 2019	5	15	0.010
27	Total Chromium as (Cr)	mg / l	IS :3025(Part 52)-2019	0.05	No relaxation	< 0.03
28	Mineral Oil	mg / l	IS : 3025 (Part 39)-2021	0.05	No relaxation	< 0.01
29	Residual Chlorine	mg / l	IS : 3025 (Part 26)-2021	0.2	1.0	0.20
30	Total Coliform	MPN/100 ml	IS : 15185-2016 Reaffirmed 2021	Absent	Absent	Absent
31	E.Coli	Nos./100 ml	IS : 15185-2016 Reaffirmed 2021	Absent	Absent	Absent

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

REMARKS: Sample was tested for above mentioned parameters only. As per IS: 10500 : 2012, Analysis result indicating that sample quality is suitable for drinking purpose.

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

Authorized Signatory

ENV/SE/APL/2024-25/076/7

Date: 3.10.2024

Name of Industry & Address:	M/s ADANI POWER LIMITED Plot no. - A1, Tirora Growth Center, MIDC, Tirora, Dist.: Gondia, Maharashtra – 441 911. India
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Stack Emission Monitoring Report

(At Town ship)

SL. NO.	PARAMETERS	Unit	EPA Standards for DG Set (Engine Rating > 0.8 MW)	Results
				D.G. Set
1	Date of Sampling		-	20.09.2024
2	D.G. Capacity	KVA	-	200
3	Height of Stack	m	-	6.5
4	Shape of stack		-	Round
5	Diameter of Stack	m	-	0.13
6	Temp. of exit gas	⁰ C	-	128
7	Velocity of exit gas	m/sec	-	10.64
8	Flow of exit gas at STP	m ³ /hr	-	508.16
9	Flow of exit gas at NTP	Nm ³ /hr	-	367.93
10	SPM	mg/Nm ³	50	33.8
11	SO ₂	mg/Nm ³	-	181.4
12	NO _x	mg/Nm ³	1335	126.2
13	CO	mg/Nm ³	150	84
14	NMHC (as C)	mg/Nm ³	100	37

For Enviro Analysts & Engineers Pvt. Ltd.



Authorized Signatory

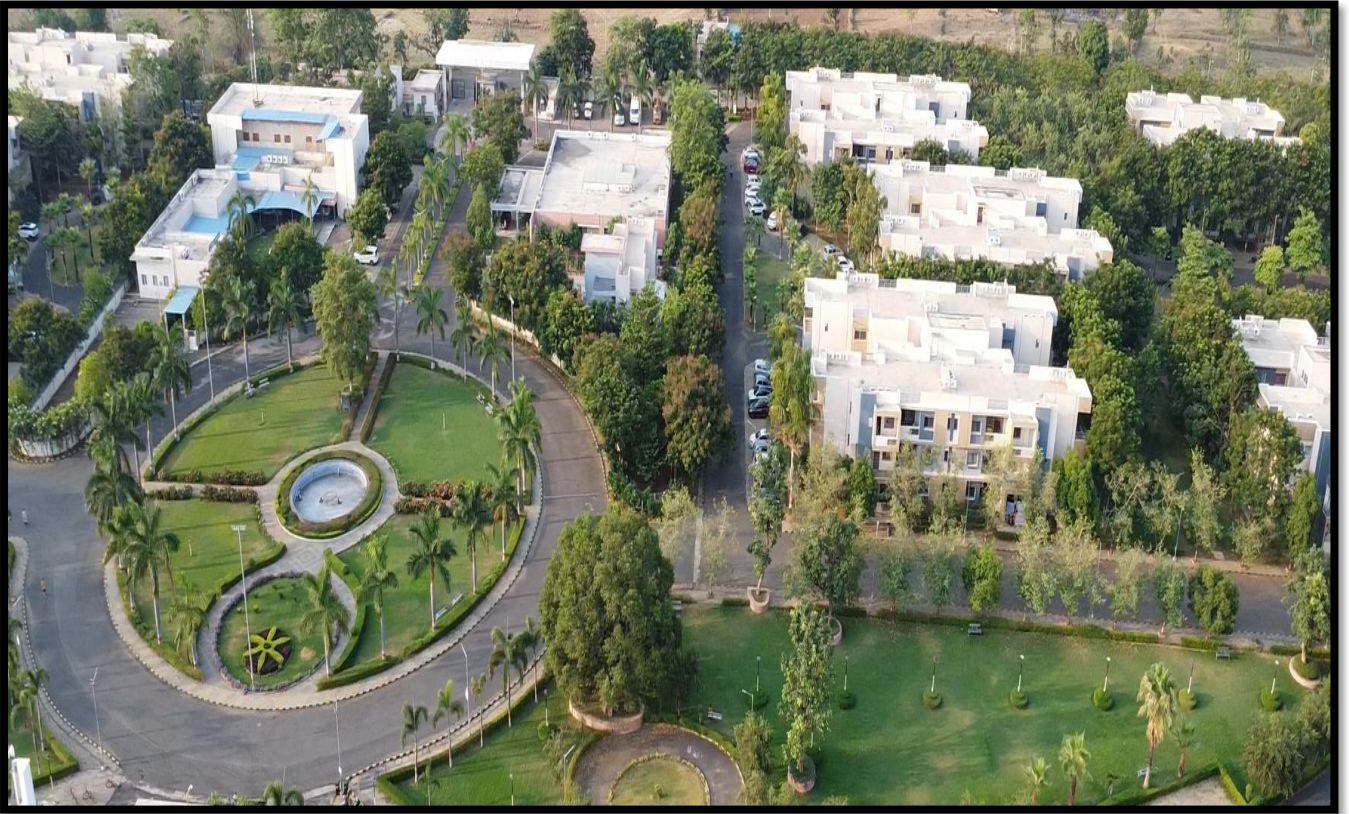
GREEN BELT & PLANTATION DETAILS

Total Area Covered till date	: 7.05Ha
Total Tree Planted	: 20999 Nos.
Tree Planted (FY2024-25)	: 4038 Nos.
Total Shrubs Planted	: 8461 Sq. Meter
Total Green Carpet	: 43794 Sq. Meter
Palm Tree	: 371 No.

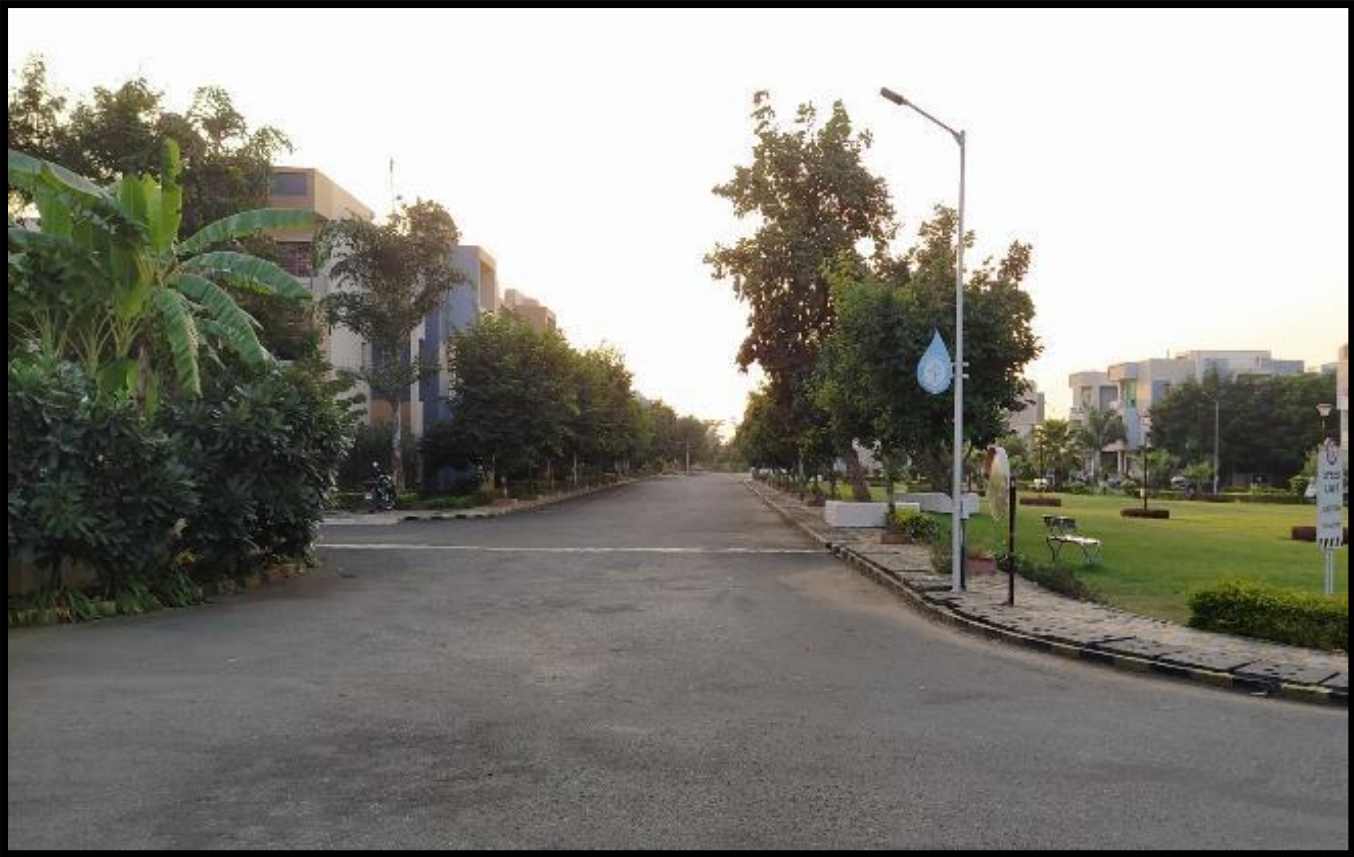
Species used for Green Belt Development

Common Name	Scientific Name	Common Name	Scientific Name
Jackranda	Jacaranda mimosifolia	Aonla	Emblica officinalis
Spathodea	Spathodea campanulata	Indian bael	Aegle marmelos
Rain Tree	Samanea saman	Guava	Psidium guavajava
Pulchurima	Caesalpinia pulcherrima	Custurd apple	Annona muricata
Cagoda tree	Plumeria alba	Jack fruit	Artocarpus heterophyllus
Jamun	Sizigium cumini	Drum Stic	Moringa oleifera
Curry tree/Sweet Neem	Murraya koenigii	Chikoo	Manilkara zapota
Neem	Azadiracta indica	Lemon	Citrus × limon
Peltaphorum	Peltaphorum	Sitafal	Annona squamosa L.
Tabebuia avellandea	Tabebuia avellandea	Palms	Caryota species
Bakiana	Bauhinia blakiana	Fox Tail Palm	Caryota species
Jasmine or Indian cork tree	Milingtonia hortensis	Travellers Palm	Ravenala madagascariensis
Bottle Brush	Golden melaleuea	Fish Tail Palm	Caryota species
Rosy Trumpet tree	Tabebuia rosea	Royal Palm	Roystonea regia
Pink Trumpet	Tabebuia avellanedai	Nut Palm	Areca catechu
Blackboard tree	Alistonia scholarisis.	Champion Palm	Hypophorbe lagenicaulis
Mango	Mangifera indica	Bismarkia Palm	Bismarckia nobilis
Piple	Ficus religeosa	Coconut	Cocos indica
Wad	Ficus bengalensis	Washingtonia Palm	Washingtonia filifera
Casuarina	Casuarina equisetifolia	Common junipers	Juniperus communis
Sita Ashok	Saraka indica	Twin Flower Cassia	Cassia biflora
Gulmohar	Delonix regia	Karvand	Carissa carandas
Saptparni	Alstonia scholaris	Common junipers	Juniperus communis
Karanj	Millettia pinnata	Acrus	Acrus sapota
Arjun	Terminalia arjuna	Bogunvella	Bougainvillea spectabilis
Kachhnar	Bauhinia variegata	Starlight	Ficus Starlight
Badam	Prunus Species	Parijatak	Nyctanthes arbortristis L.
Bakul	Mimusops elengi	Ratrani	Nyctanthes arbortristis L.
Pangara	Erythrina variegata	Golden Bamboo	Phyllostachys aurea
Amaltas	Casia fishtola	Tagar varigated	Tabernaemontana sp.
Bargad	Ficus benghalensis	Alamanda	Allamanda cathartica
Gulmahor	Delonix regia	Twin Flower Cassia	Cassia biflora
Lichi	Litchi chinensis	Saptparni	Alstonia scholaris
Spanish cherry	Mimusopes ellengii	Ficus black	Ficus benjamina
Kagzi lime	Citrus × aurantiifolia	Ficus golden	Ficus Microcarpa

ADANI POWER LIMITED, TIRODA
(Residential Complex)



ADANI POWER LIMITED, TIRODA
(Residential Complex)



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(Residential Complex)



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ADANI POWER LIMITED, TIRODA
(Residential Complex)



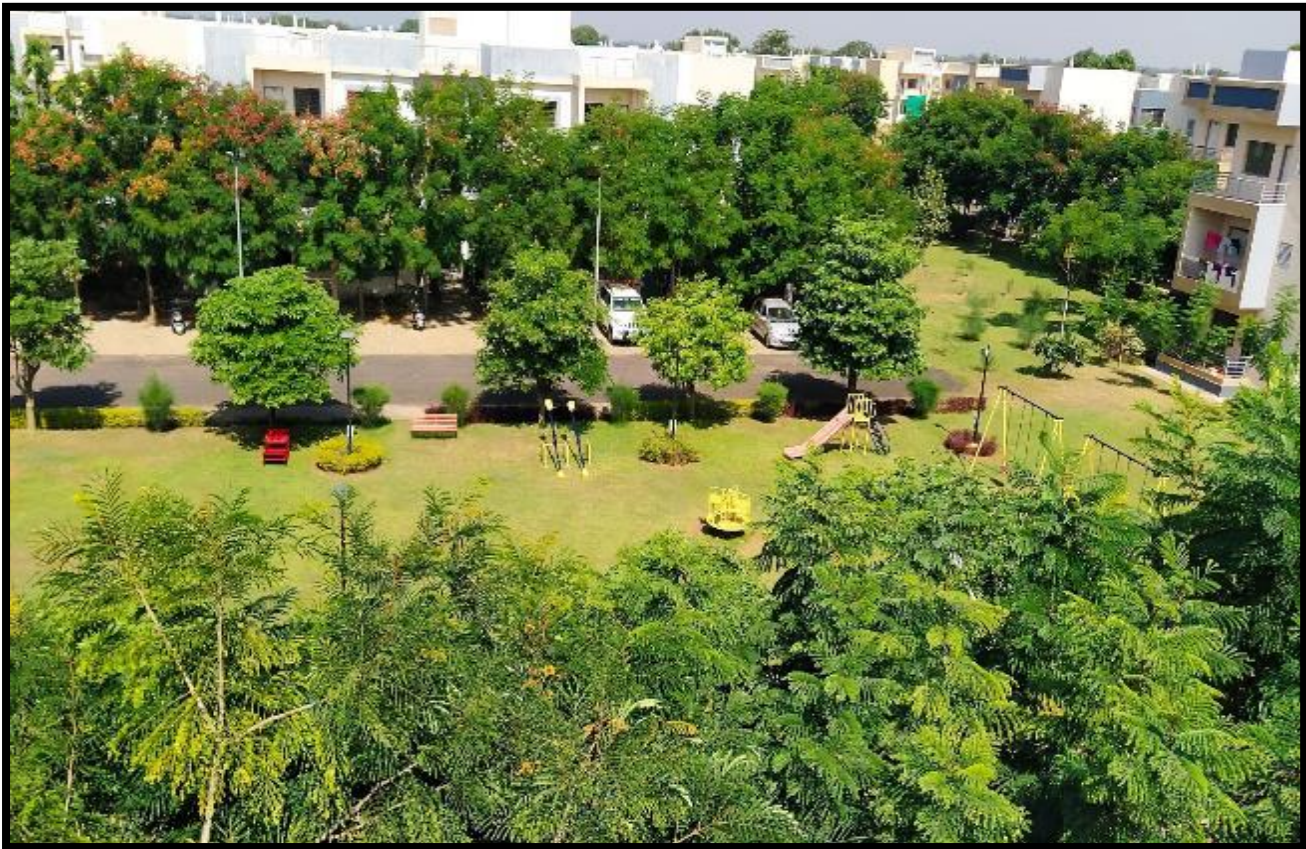
ADANI POWER LIMITED, TIRODA
(Residential Complex)



ADANI POWER LIMITED, TIRODA
(Residential Complex)



ADANI POWER LIMITED, TIRODA
(Residential Complex)

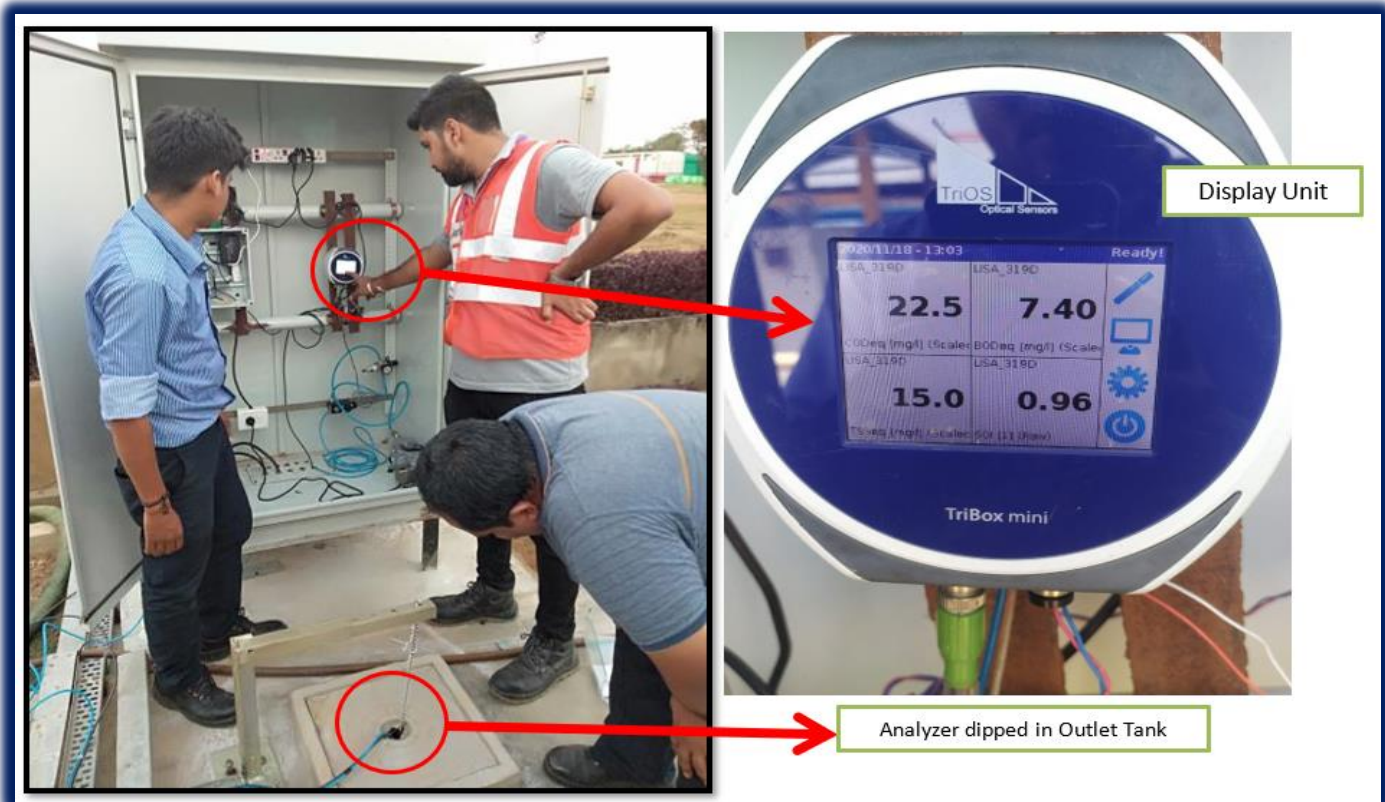


Sewage Treatment Plant (Township)

(Capacity: 240m³/Day)



Sewage Treatment Plant



Online Monitoring Facility at STP



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Annexure - IV

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000070857

Submitted Date

21-09-2024

PART A

Company Information

Company Name

Residential Complex for Tiroda Thermal Power Plant of Adani Power Limited.

Application UAN number

MPCB-CONSENT-0000086203

Address

Shantigram Adani Township, Berdipar, Tehsil Tiroda, Dist. Gondia

Plot no

Kachewani, Berdipar

Taluka

Tiroda

Village

Berdipar

Capital Investment (In lakhs)

13850.00

Scale

S.S.I

City

Gondiya

Pincode

441911

Person Name

Mayank Doshi

Designation

Station Head

Telephone Number

8875088555

Fax Number

07198253971

Email

mayank.doshi@adani.com

Region

SRO-Bhandara

Industry Category

Orange

Industry Type

O21 Building and construction project more than 20,000 sq. m built up area

Last Environmental statement submitted online

yes

Consent Number

MPCB-CONSENT-0000086203

Consent Issue Date

2020-08-17

Consent Valid Upto

2025-01-31

Establishment Year

2015

Date of last environment statement submitted

Sep 29 2023 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

NA

Consent Quantity

0

Actual Quantity

0

UOM

CMD

By-product Information

By Product Name

NA

Consent Quantity

0

Actual Quantity

0

UOM

CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	0.00	0.00
Domestic	240.00	240.00
All others	0.00	0.00
Total	240.00	240.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Domestic Effluent	192	148	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
OTHERS	0	0	CMD

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
Not Applicable	0	0	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
HSD	67	10.73	Ltr/Hr

Part-C

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	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
pH	0	8.01	0	6.5 to 9.0	-
TSS	2.46	16.59	0	20	-
COD	5.09	34.41	0	50	-
BOD	1.17	7.88	0	10	-
AMMONICAL NITROGEN (NH-N)	0.45	3.02	0	5	-
N-TOTAL	0.82	5.53	00	10	-
FECAL COLIFORM	0	15	0	100	-

[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	Standard	Reason
	Quantity	Concentration	%variation		

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Kg/Annum

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Kg/Annum

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Kg/Annum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
STP Sludge	627	930	Kg/Annum

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Kg/Annum

Part-F

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	Kg/Annum	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Domestic Bio-degradable waste	8074	Kg/Annum	Food & vegetable and horticulture waste used for composting
Non Biodegradable waste	67435	Kg/Annum	Plastics, glass, metals, wood, paperetc.

Part-G

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)
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Part-H**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)
Environmental Monitoring	Air, Water Noise Monitoring	1.81
Pollution Control Equipment O&M	STP Operational Cost	8.4
Green Belt Development including Nursery	Sapling plantation & Maintenance of Existing Green Belt	27.5
Biomedical Waste Management	BMW handling & disposal as per MPCB Guideline	0.67
Waste Management	Domestic waste handling & Disposal	10.85

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Environmental Monitoring	Air,Water Noise Monitoring	2.0
Pollution Control Equipment O&M	Chemical Consumption & other Operational Cost	18
Green Belt Development including Nursery	Sapling plantation & Maintenance of Existing Green Belt	28
Biomedical Waste Management	BMW handling & disposal as per MPCB Guideline	0.67
Waste Management	Domestic waste handling & Disposal	11
Roof Top Rainwater Harvesting Facility	Domestic waste handling & Disposal	9

Part-I**Any other particulars for improving the quality of the environment.****Particulars**

5 S management System implemented, Roof Top Rainwater harvesting with ground water recharging facility implemented, Single used Plastics free campaign Implementing

Name & Designation

Mayank Doshi, Station Head

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000070857

Submitted On:

21-09-2024

WASTE PROCESSING FACILITIES

Organic waste convertor, Paper recycling units & Solid waste yard





Paper Recycling Unit & Products

Awareness on Waste Management



Awareness Session conducted on 9th Jun'2024 on Segregation & Handling of Domestic waste for Housekeeping Worker & Maids





Awareness on Source Segregation of Waste

**Groundwater Recharge through Roof Top Rainwater Harvesting
at Residential Complex**

Sr. No.	Month	Rainfall (mm)	Rainwater Harvesting (m ³)
1	April - 2024	76.8	160
2	May - 2024	29.6	62
3	June - 2024	50	104
4	July - 2024	736.4	1535
5	August - 2024	512.6	1068
6	September - 2024	290	604
	Total	1695.4	3534

Rooftop Rainwater Harvesting at Residential Complex

