



Power

Ref: APL/Tiroda/EMD/MoEFCC/EC/223/11/23
Date: 24/11/2023

To,
**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 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'2023 to September'2023** in soft (e-mail).

This is for your kind information & record please.

Thanking you

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

**(Santosh Kumar Singh)
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**

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

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www.adanipower.com

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'2023 – September'2023

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3	Environmental Monitoring Report From April'2023 - September'2023 <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
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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	Compliances
(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 for 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. The Average domestic waste generation is 220kg/day during the reporting period. All the wastes are segregated into Bio-degradable and non-Biodegradable. Bio-degradable wastes are disposed-off through organic waste convertor to generate compost which is being utilized in green belt/horticulture development. Enclosed as Annexure - V . Non-biodegradable wastes are recycled/reused through local recyclers. 35.77 MT of non-biodegradable waste is recycled/reused through local recyclers during the reporting period.
(iv)	The height, Construction built up area of proposed construction shall be in accordance	FSI/FAR norms have been complied.

	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.	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.	Sewage treatment plant established and is operational with online monitoring facility of COD, BOD & TSS. Treated water being reused in green belt development. Enclosed as Annexure – I and III . 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. Enclosed as Annexure – V & VI Green belt has been developed in 07.05 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 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.	Complied.
(x)	The solid waste generated should be properly collected and segregated, dry/inert solid waste	Complied Solid waste yard developed for segregation

	should be disposed off to the approved sites for land filling after recovering recyclable material.	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. Enclosed as Annexure - V & VI.
(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.	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. Enclosed as Annexure - V
(xii)	Arrangement shall be made that wastewater and storm water do not get mixed.	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.	Thick plantation by selecting indigenous species carried out as per CPCB guidelines and in consultation with the local DFO/Agriculture Dept. We are maintaining more than 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	Complied.

	sites with the approval of competent authority.	
(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 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 Environment (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 for bringing 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 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.	Complied. Ambient Air quality and Noise level is being monitored regularly. DG stack monitoring is also being done periodically. 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.	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 level & quality are being monitored Regularly. Rainwater harvesting practice is adopted. Rooftop harvesting structures established. Around 2914m ³ rainwater harvested during April 2023 – September 2023 through rooftop 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. Necessary measures should be made to mitigate the odour problem from STP.	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 and submit monthly monitoring report to SRO, MPCB Bhandara. Enclosed as Annexure – I.
(xxxi)	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 as a source segregation practice and being disposed of as per MSW guidelines.
(xxxii)	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.
(xxxiii)	Separation of gray and black water should be	A dual plumbing line is provided for

	done by use of dual plumbing line for separation of gray and black water.	separation of gray and black water.
(xxxiv)	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.
(xxxv)	Use of glass maybe 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.
(xxxvi)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Complied.
(xxxvii)	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 street lights, 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. CFLs/TFLs lights are being used. 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.
(xxxviii)	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 the combined capacity of all proposed DG sets. Use low Sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	Complied. The height of DG set stack is more than 6.5 meter from roof top. Low Sulphur fuel is being used.
(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.
(xi)	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 to ensure that there was no traffic congestion at the entry and exit points.
(xii)	Opaque wall should meet prescriptive	Complied.

	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	
(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 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 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 October' 2022 to March' 2023 has been submitted to MoEF&CC/CPCB/MPCB vide letter no. APL/APML/EMD/MoEFCC/EC/213/05/23 dated 25.05.2023.
(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 a fresh appraisal by this Department.	Noted & agreed.
(xlviii)	A separate environment management cell with qualifies staff shall be set up for implementation of the stipulated environmental safeguards.	We have already established the Environment Management Department headed by GM and supported by Env. Manager, Chemist & Horticulturist at Tiroda TPP.
(xlix)	Separate funds shall be allocated for 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 environment 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.
(l)	The project management shall advertise at least in two local newspaper widely circulated in the region around the project, one of which	Complied.

	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 .	
(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 MoEF&CC, 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.
(iii)	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.
(iv)	The project proponent shall also submit six 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.	Six monthly reports on the status of compliance of the stipulated EC conditions along with monitoring reports are being submitted to MoEF&CC, CPCB & MPCB. The last Six-monthly report for the period of October'2022 to March'2023 was submitted to MoEF&CC/CPCB/MPCB vide letter no. APL/APML/EMD/MoEF/EC/213/05/23 dated 25.05.2023.

(iv)	The environmental statement for each financial year ending 31 st 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.	Environment Statement for F.Y 2022 – 23 filed online to MPCB portal dated 29.09.2023 is enclosed as Annexure – IV
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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

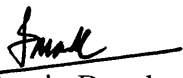
No. SIA/MH/MIS/300510/2023
Environment & Climate Change
Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.
Date: 04/09/2023

To,
Adani Power Ltd.
Adani House, Nr Mithakhali Circle Navrangpura,
Ahmedabad. Pin- 380009.

Sub: - Transfer of Environmental Clearance granted to M/s. Adani Power Maharashtra Limited. for Residential Complex of Tiroda Thermal Power Plant at Village Berdipar Taluka Tiroda District Gondia in Maharashtra.

Ref: 1. Your application for transfer of EC- SIA/MH/MIS/300510/2023.
2. EC Letter no. SEAC-2212/CR-93/TC-2, Dated 30/09/2014.

1. This has reference to your online application vide proposal No. SIA/MH/MIS/300510/2023. in prescribed Form - 7 and other documents for seeking transfer of Environmental Clearance (EC) of the project mentioned in the subject.
2. EC was granted to M/s. Adani Power Maharashtra Limited. vide letter dated 30/09/2014. for for Residential Complex of Tiroda Thermal Power Plant at Village Berdipar Taluka Tiroda District Gondia in Maharashtra. Now, you have applied for transfer of EC from M/s. Adani Power Maharashtra Limited. to Adani Power Ltd as you have taken over the project under reference.
3. You have submitted following documents in support of your application for transfer of EC-
 - i. Undertaking by transferee regarding acceptance of the terms and conditions in the EC letter dated 30/09/2014.
 - ii. Copy of authorization duly signed by the project proponent in support of the person making this application on behalf of the User Agency.
4. SEIAA noted the above facts and decided to transfer EC dated 30/09/2014. from. M/s. Adani Power Maharashtra Limited. to M/s Adani Power Ltd.
5. This letter shall be read with the EC letter Dated 30/09/2014.
6. All the other terms and conditions mentioned in the EC letter dated 30/09/2014. shall remain the same.


Pravin Darade
(Member Secretary, SEIAA)

ENVIRONMENT LABORATORY

ADANI POWER LIMITED

(5x660 MW Thermal Power Plant, Tirora)

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

URL No :TC5193230000000412F

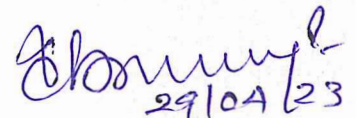
Date :29.04.2023

Issued To:		APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Township)					
Sample Collected by :		Environment Dept. APL					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting Date	Parameters			
				PM 10	PM 2.5	SO2	NOx
				µg/m ³	µg/m ³	µg/m ³	µg/m ³
AAQ 1	Near Quarter 'A' Block (1-12)	21.04.2023	22.04.2023	22.3	13.4	5.1	9.5
AAQ 2	Near Quarter 'M' Block (145-156)			16.3	10.4	5.3	13.1
				100	60	80	80

*** End of the Report***

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

- 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)

Page 1 of 1

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

URL No :TC5193230000000512F

Date :31.05.2023

Issued To:		APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Township)					
Sample Collected by :		Environment Dept. APL					
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 Quarter 'A' Block (1-12)	19.05.2023	20.05.2023	51.8	38.4	6.6	8.2
AAQ 2	Near Quarter 'M' Block (145-156)			23.4	13.9	4.2	11.1
				100	60	80	80

*** End of the Report***

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

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Authorized Signatory
(Technical Manager)

Page 1 of 1

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

URL No :TC5193230000000612F

Date :30.06.2023

Issued To:		APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Township)					
Sample Collected by :		Environment Dept. APL					
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 Quarter 'A' Block (1-12)	12.06.2023	13.06.2023	35.2	24.4	4.4	11.4
AAQ 2	Near Quarter 'M' Block (145-156)			30.2	20.5	5.1	10.7
				100	60	80	80

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

- 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)

*** End of the Report***

Page 1 of 1

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

URL No :TC5193230000000713F

Date :31.07.2023

Issued To:		APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Township)					
Sample Collected by :		Environment Dept. APL					
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 Quarter 'A' Block (1-12)	21.07.2023	22.07.2023	24.9	13.9	5.8	14.4
AAQ 2	Near Quarter 'M' Block (145-156)			18.5	11.2	4.8	12.0
				100	60	80	80

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

1. The report is referring only to the tested sample and for applicable parameter.
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)

*** End of the Report***

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

URL No :TC5193230000000810F

Date :31.08.2023

Issued To:		APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Township)					
Sample Collected by :		Environment Dept. APL					
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 Quarter 'A' Block (1-12)	18.08.2023	19.08.2023	30.2	13.1	6.8	10.2
AAQ 2	Near Quarter 'M' Block (145-156)			31.5	17.0	6.3	13.2
				100	60	80	80

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

- 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)

*** End of the Report***

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

URL No :TC5193230000000910F.

Date :30.09.2023

Issued To:		APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911					
Sample Particulars :		Ambient Air Quality (Township)					
Sample Collected by :		Environment Dept. APL					
Test Report							
Station	Sampling Location	Sampling Date	Analysis Starting & Completed 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 Quarter 'A' Block (1-12)	22.09.2023	23.09.2023	28.7	17.3	6.3	9.8
AAQ 2	Near Quarter 'M' Block (145-156)			25.5	15.4	4.4	14.3
				100	60	80	80

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

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



Verified By
DY. Technical Manager



Authorized Signatory
(Technical Manager)

*** End of the Report***

Page 1 of 1

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

URLTC5193230000000411F

Date: 29.04.2023

Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Township)
Sample Collected by :	Environment Dept. APL
Date of Sampling:	15.04.2023

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 Bachelor Hostel	45.1	36.1
2	Near Main gate	51.1	42.0
3	Near officer Club	37.3	31.5
4	Near Health Center	38.6	31.2
5	Near Cricket Ground	47.1	40.1
CPCB Standards (Residential Area)		55	45

*** End Of the Report***

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

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

[Handwritten Signature]
29/04/23

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(Technical Manager)

Page 1 of 1

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

URLTC5193230000000511F

Date: 31.05.2023

Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911
Sample Particulars :	Ambient Noise Level (Township)
Sample Collected by :	Environment Dept. APL
Date of Sampling:	20.05.2023

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 Bachelor Hostel	41.3	36.5
2	Near Main gate	51.8	41.9
3	Near officer Club	39.4	32.7
4	Near Health Center	39.2	32.0
5	Near Cricket Ground	43.9	37.5
CPCB Standards (Residential Area)		55	45

*** End Of the Report***

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

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Page 1 of 1

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

URLTC5193230000000611F

Date: 30.06.2023

Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Township)
Sample Collected by :	Environment Dept. APL
Date of Sampling:	13.06.2023

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 Bachelor Hostel	41.6	36.5
2	Near Main gate	53.4	41.9
3	Near officer Club	41.4	32.7
4	Near Health Center	40.3	32.0
5	Near Cricket Ground	44.4	37.5
CPCB Standards (Residential Area)		55	45

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

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*** End Of the Report***

Format No: APL/ENV-LB/7.8/FO1

URLTC5193230000000712F

Date: 31.07.2023

Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Township)
Sample Collected by :	Environment Dept. APL
Date of Sampling:	21.07.2023

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 Bachelor Hostel	34.3	31.2
2	Near Main gate	43.0	38.4
3	Near officer Club	33.2	31.9
4	Near Health Center	32.5	30.5
5	Near Cricket Ground	38.3	36.4
CPCB Standards (Residential Area)		55	45

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

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*** End Of the Report***

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

URLTC5193230000000809F

Date: 31.08.2023

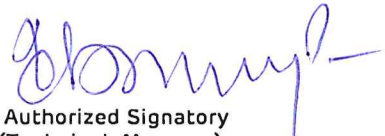
Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Township)
Sample Collected by :	Environment Dept. APL
Date of Sampling:	18.08.2023

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 Bachelor Hostel	42.0	34.9
2	Near Main gate	46.6	42.9
3	Near officer Club	46.0	34.7
4	Near Health Center	39.8	33.9
5	Near Cricket Ground	41.5	39.9
CPCB Standards (Residential Area)		55	45

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

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Authorized Signatory
(Technical Manager)

*** End Of the Report***

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

URLTC519323000000909F

Date: 30.09.2023

Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911
Sample Particulars :	Ambient Noise Level (Township)
Sample Collected by :	Environment Dept. APL
Date of Sampling:	22.09.2023

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 Bachelor Hostel	43.1	33.5
2	Near Main gate	49.4	38.3
3	Near officer Club	45.4	32.5
4	Near Health Center	40.1	35.1
5	Near Cricket Ground	40.0	31.2
CPCB Standards (Residential Area)		55	45

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

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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.



Verified By
DY. Technical Manager



Authorized Signatory
(Technical Manager)

*** End Of the Report***

Page 1 of 1

Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	12.04.2023	Analysis Starting Date	12.04.2023
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APL
Sample Particulars : Treated Waste Water			
Location of sample : Township STP Out Let			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results
					Town ship STP
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	6.5-9.0	7.9
2	TSS	mg / l	APHA-23rd - 2540 D	20	18
3	COD	mg / l	APHA-22nd Ed 2012-5220B Open Reflux Method	50	48
4	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	10	9
#5	Ammonium Nitrogen (NH4N)	mg / l	APHA-23rd Ed 2017-4500 - NH3 F Phenate Method	5	2
#6	N - Total	mg/l	APHA-23rd Ed 2017-4500 - N B Kjeldahl Method	10	5.2
#7	Fecal Coliform	(mpn/100 ml)	APHA-23rd Ed 2017-9221:1 Total Coliform Detection Method	100	13

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.


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Issued To:	APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	10.05.2023	Analysis Starting Date	10.05.2023
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APL
Sample Particulars : Treated Waste Water			
Location of sample : Township STP Out Let			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results
					Town ship STP
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	6.5-9.0	8.0
2	TSS	mg / l	APHA-23rd - 2540 D	20	16.3
3	COD	mg / l	APHA-22nd Ed 2012-5220B Open Reflux Method	50	29.4
4	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-4)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	10	9.0
#5	Ammonium Nitrogen (NH4N)	mg / l	APHA-23rd Ed 2017-4500 - NH3 F Phenate Method	5	2.0
#6	N - Total	mg/l	APHA-23rd Ed 2017-4500 - N B Kjeldahl Method	10	5.2
#7	Fecal Coliform	(mpn/100 ml)	APHA-23rd Ed 2017-9221:1 Total Coliform Detection Method	100	13.0

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.


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Issued To:	APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	14.06.2023	Analysis Starting Date	14.06.2023
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APL
Sample Particulars : Treated Waste Water			
Location of sample : Township STP Out Let			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results
					Town ship STP
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	6.5-9.0	7.4
2	TSS	mg / l	APHA-23rd - 2540 D	20	16.0
3	COD	mg / l	APHA-22nd Ed 2012-5220B Open Reflux Method	50	39.2
4	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	10	8.0
#5	Ammonium Nitrogen (NH4N)	mg / l	APHA-23rd Ed 2017-4500 - NH3 F Phenate Method	5	2.7
#6	N - Total	mg/l	APHA-23rd Ed 2017-4500 - N B Kjeldahl Method	10	4.8
#7	Fecal Coliform	(mpn/100 ml)	APHA-23rd Ed 2017-9221:1 Total Coliform Detection Method	100	12

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)

End of the Report

Issued To:	APL, Plot No. A -1, Tirora Growth Centre, MIDC - Tirora, Dist. Gondia - 441 911		
Sample Collection Date	12.07.2023	Analysis Starting Date	12.07.2023
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APL
Sample Particulars : Treated Waste Water			
Location of sample : Township STP Out Let			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results
					Town ship STP
1	pH Value	--	APHA-23rd -4500-II+B Electrometric Method	6.5-9.0	7.3
2	TSS	mg / l	APHA-23rd - 2540 D	20	19.0
3	COD	mg / l	APHA-22nd Ed 2012- 5220B Open Reflux Method	50	29.4
4	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R- 1999 Ad.1 BOD 3-days at 27 °C	10	9.0
#5	Ammonium Nitrogen (NH4N)	mg / l	APHA-23rd Ed 2017- 4500 - NH3 F Phenate Method	5	3.2
#6	N - Total	mg/l	APHA-23rd Ed 2017- 4500 - N B Kjeldahl Method	10	5.2
#7	Fecal Coliform	(mpn/100 ml)	APHA-23rd Ed 2017- 9221:1 Total Coliform Detection Method	100	17

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

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Authorized Signatory
(Technical Manager)

End of the Report

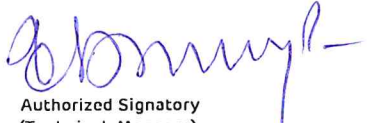
Issued To:	APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection Date	09.08.2023	Analysis Starting Date	09.08.2023
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APL
Sample Particulars : Treated Waste Water			
Location of sample : Township STP Out Let			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results
					Town ship STP
1	pH Value	--	APHA-23rd -4500-II+B Electrometric Method	6.5-9.0	7.6
2	TSS	mg / l	APHA-23rd - 2540 D	20	16.0
3	COD	mg / l	APHA-22nd Ed 2012-5220B Open Reflux Method	50	30.6
4	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	10	9.0
#5	Ammonium Nitrogen (NH4N)	mg / l	APHA-23rd Ed 2017-4500 - NH3 F Phenate Method	5	4.1
#6	N - Total	mg/l	APHA-23rd Ed 2017-4500 - N B Kjeldahl Method	10	5.8
#7	Fecal Coliform	(mpn/100 ml)	APHA-23rd Ed 2017-9221:1 Total Coliform Detection Method	100	21

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)

End of the Report

Issued To:	APL,Plot No. A -1, Tirora Growth Centre, MIDC – Tirora, Dist. Gondia – 441 911		
Sample Collection & Analysis Starting Date	06.09.2023	Analysis Completed Date	09.09.2023
Quantity received	3 Lit /Sample	Sampled by	Environment Dept. APL
Sample Particulars : Treated Waste Water			
Location of sample : Township STP Out Let			

TEST REPORT

Sr no	Parameter (NABL SCOPE)	Unit	Test Methods	MPCB Standards	Results
					Town ship STP
1	pH Value	--	APHA-23rd -4500-H+B Electrometric Method	6.5-9.0	8.2
2	TSS	mg / l	APHA-23rd - 2540 D	20	14.0
3	COD	mg / l	APHA-22nd Ed 2012-5220B Open Reflux Method	50	40.8
4	BOD at 27°C for 3 days	mg / l	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	10	8.0
#5	Ammonium Nitrogen (NH4N)	mg / l	APHA-23rd Ed 2017-4500 - NH3 F-Phenate Method	5	4.3
#6	N - Total	mg/l	APHA-23rd Ed 2017-4500 - N B Kjeldahl Method	10	6.7
#7	Fecal Colliform	(mpn/100.ml)	APHA-23rd Ed 2017-9221.1 Total Colliform Detection Method	100	30

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.



Verified By
DY Technical Manager



Authorized Signatory
Technical Manager

End of the Report

Page 1 Of 1



H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
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Page 1 of 2

EAEPL/DW/2023-24/070/2

Date: 21.09.2023

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 : 13.09.2023 Analysis Starting Date : 14.09.2023
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)-1983	5	15	0.1
2	Odour	-	IS : 3025 (Part 5)-1983	Agreeable	Agreeable	Agreeable
3	Taste	-	IS : 3025 (Part 8)-1984	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	NTU	IS : 3025 (Part 10)-1984	1	5	0.1
5	Total Dissolved Solid	mg / l	IS 3025 (Part 16) 1984	500	2000	138
6	Electrical Conductivity	µS/cm	-	-	-	224
7	Total Alkalinity	mg / l	IS 3025 (Part 23) 1986	200	600	116
8	pH Value at 25°C	-	IS : 3025 (Part 11)-1983	6.5 to 8.5	No relaxation	7.82
9	Total Hardness (CaCO ₃)	mg / l	IS : 3025 (Part 21)-1983	200	600	102
10	Calcium (as Ca)	mg / l	IS : 3025 (Part 40)-1991	75	200	32.2
11	Magnesium (as Mg)	mg / l	IS : 3025 (Part 46)-1994	30	100	5.2
12	Copper as(Cu)	mg / l	IS : 3025 (Part II)-2004	0.05	1.5	< 0.01
13	Iron (as Fe)	mg / l	IS : 3025 (Part II)-2004	0.3	No relaxation	0.073
14	Manganese as (Mn)	mg / l	IS : 3025 (Part II)-2004	0.1	0.3	< 0.01
15	Chlorides (as Cl)	mg / l	IS : 3025 (Part 32)-1988	250	1000	11.6
16	Sulphate (as SO ₄)	mg / l	IS : 3025 (Part 24)-1986	200	400	9.5
17	Nitrates (as NO ₃)	mg / l	IS : 3025 (Part 34)-1988	45	No relaxation	2.10
18	Fluoride (as F)	mg / l	IS : 3025 (Part 60)-2008	1.0	1.5	0.32

For ENVIRO ANALYSTS & ENGINEERS PVT. LTD.


Authorized Signatory

Nagpur Branch :
Shiv Kunj, Bungalow No. 65,
Old Verma Layout, Ambazari,
Nagpur - 440 010.
Tel. : 0712 - 2241 835,
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Pune Branch:
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City S. No. 209, B/1, Sadashiv Peth,
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Pune - 411 030.
Tel. : 020-2432 4444

Lab :
Row House No. 2, Shalom Garden,
Opp. Kanakia College,
100 Feet Kanakia Road,
Mira Road (East), Thane - 401 107.
Tel. : 022-2811 6442

Workshop :
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MIDC Tarapur,
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Dist. - Thane - 401 506.





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• Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaepl.com • Website : www.eaepl.com

EAEPL/DW/2023-24/070/2

Date: 21.09.2023

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 : 13.09.2023 Analysis Starting Date : 14.09.2023
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)-1992	0.001	0.002	BDL
20	Mercury as (Hg)	mg / l	IS : 3025 (Part II)-2004	0.001	No relaxation	< 0.0005
21	Cadmium as (Cd)	mg / l	IS : 3025 (Part II)-2004	0.003	No relaxation	< 0.001
22	Selenium as (Se)	mg / l	IS : 3025 (Part II)-2004	0.01	No relaxation	< 0.001
23	Arsenic as (As)	mg / l	IS : 3025 (Part II)-2004	0.01	0.05	BDL
24	Cyanide as (CN)	mg / l	IS : 3025 (Part 27)-1986	0.05	No relaxation	< 0.005
25	Lead as (Pb)	mg / l	IS : 3025 (Part II)-2004	0.01	No relaxation	< 0.001
26	Zinc as (Zn)	mg / l	IS : 3025 (Part II)-2004	5	15	0.012
27	Total Chromium as (Cr)	mg / l	IS :3025(Part 52)-2003	0.05	No relaxation	< 0.03
28	Mineral Oil	mg / l	IS : 3025 (Part 39)-1991	0.05	No relaxation	< 0.01
29	Residual Chlorine	mg / l	IS : 3025 (Part 26)-1986	0.2	1.0	0.20
30	Total Coliform	MPN/100 ml	IS : 1622-1981	Absent	Absent	Absent
31	E.Coli	Nos./100 ml	IS : 1622-1981	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

Nagpur Branch :
Shiv Kunj, Bungalow No. 65,
Old Verma Layout, Ambazari,
Nagpur - 440 010.
Tel. : 0712 - 2241 835,
Telefax : 0712 - 2241 836

Pune Branch:
Flat No. 11,
Tarankit Co. Op. Hsg. Soc. Ltd.,
City S. No. 209, B/1, Sadashiv Peth,
L. B. S. Road, Nr. Dnyanal Mangal Hall,
Pune - 411 030.
Tel. : 020-2432 4444

Lab :
Row House No. 2, Shalom Garden,
Opp. Kanakia College,
100 Feet Kanakia Road,
Mira Road (East), Thane - 401 107.
Tel. : 022-2811 6442

Workshop :
Plot No. E - 122,
MIDC Tarapur,
Boisar,
Dist. - Thane - 401 506.





H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
 • Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaepl.com • Website : www.eaepl.com

ENV/SE/APML/2023-24/034/6

Date: 28.06.2023

Name of Industry & Address:	M/s Adani Power Ltd., 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	CONCENTRATION
			D.G. set Stack 4
1	Date of Sampling	-	22.06.2023
2	D.g. Capacity	KVA	200
3	Diameter of Stack	meter	0.13
4	Height of Stack	meter	6.5
5	Temp. of exit gas	⁰ C	124
6	Velocity of exit gas	m/sec	9.40
7	Flow of exit gas at stack temp. & Press.	m ³ /hr	448.93
8	Flow of exit gas at NTP	Nm ³ /hr	336.986
9	PM	mg/Nm ³	28.8
10	Total dust emission	kg/hr	113.96
11	SO ₂	mg/Nm ³	207.6
12	NO _x	mg/Nm ³	116.2
13	CO	ppm	52

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout, Ambazari,
Nagpur - 440 010.
Tel. : 0712 - 2241 835,
Telefax : 0712 - 2241 836

Pune Branch:
Flat No. 11,
Tarankit Co. Op. Hsg. Soc. Ltd.,
City S. No. 209, B/1, Sadashiv Peth,
L. B. S. Road, Nr. Dnyanal Mangal Hall,
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Plot No. E - 122,
MIDC Tarapur,
Boisar,
Dist. - Thane - 401 506.



ADANI POWER LIMITED, TIRODA
(Residential Complex)

GREEN BELT & PLANTATION DETAILS

Total Area Covered till date	: 7.05Ha
Total Tree Planted	: 9634 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	Amla	Emblica officinalis
Spathodea	Spathodea campanulata	Indian bael	Aegle marmelos
Rain Tree	Samanea saman	Guava	Psidium guajava
Pulchurima	Caesalpinia pulcherrima	Custurd apple	Annona muricata
Champo	Plumeria alba	Jack fruit	Artocarpus heterophyllus
Jamun	Siyzygium cumini	Drum Stick	Moringa oleifera
Curry tree	Murraya koenigii	Chikoo	Manilkara zapota
Neem	Azadirachta indica	Lemon	Citrus × limon
Peltophorum	Peltophorum	Sitafal	Annona squamosa L.
Tabebuia avellandea	Tabebuia avellandea	Palms	Caryota species
Sita Ashok	Saraka indica	Fox Tail Palm	Caryota species
Jasmine	Millingtonia hortensis	Travellers Palm	Ravenala madagascariensis
Bottle Brush	Golden melaleuca	Fish Tail Palm	Caryota species
Basant Rani	Tabebuia rosea	Royal Palm	Roystonea regia
Lichi	Litchi chinensis	Nut Palm	Areca catechu
Saptaparni	Alstonia scholaris	Champion Palm	Hyophorbe lagenicaulis
Mango	Mangifera indica	Bismarkia Palm	Bismarckia nobilis
Piple	Ficus religiosa	Coconut	Cocos indica
Wad	Ficus benghalensis	Washingtonia Palm	Washingtonia filifera
Saru	Casuarina equisetifolia	Twin Flower Cassia	Cassia biflora
Gulmohar	Delonix regia	Karvand	Carissa carandas
Karanj	Millettia pinnata	Acrus	Achras zapota
Arjun	Terminalia arjuna	Bogunvella	Bougainvillea spectabilis
Kachhnar	Bauhinia variegata	Starlight	Ficus Starlight
Badam	Prunus Species	Parijatak	Nyctanthes arbortristis L.
Bakul	Mimusops elengi	Ficus golden	Ficus Microcarpa
Pangara	Erythrina variegata	Golden Bamboo	Phyllostachys aurea
Amaltas	Cassia fistula	Tagar varigated	Tabernaemontana sp.
Kagzi lime	Citrus aurantiifolia	Alamanda	Allamanda cathartica
Ficus black	Ficus benjamina		

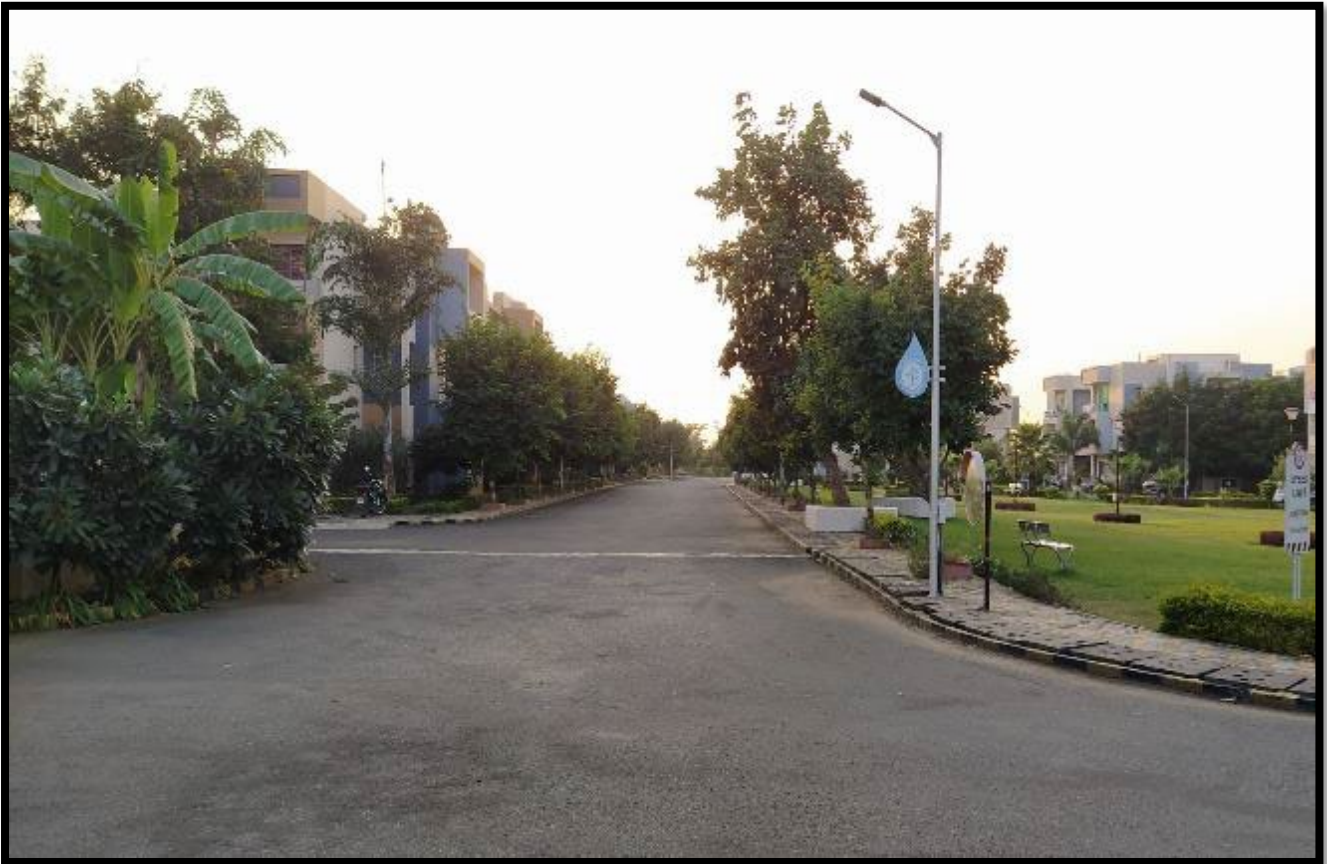
ADANI POWER LIMITED, TIRODA
(Residential Complex)



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(Residential Complex)



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ADANI POWER LIMITED, TIRODA
(Residential Complex)



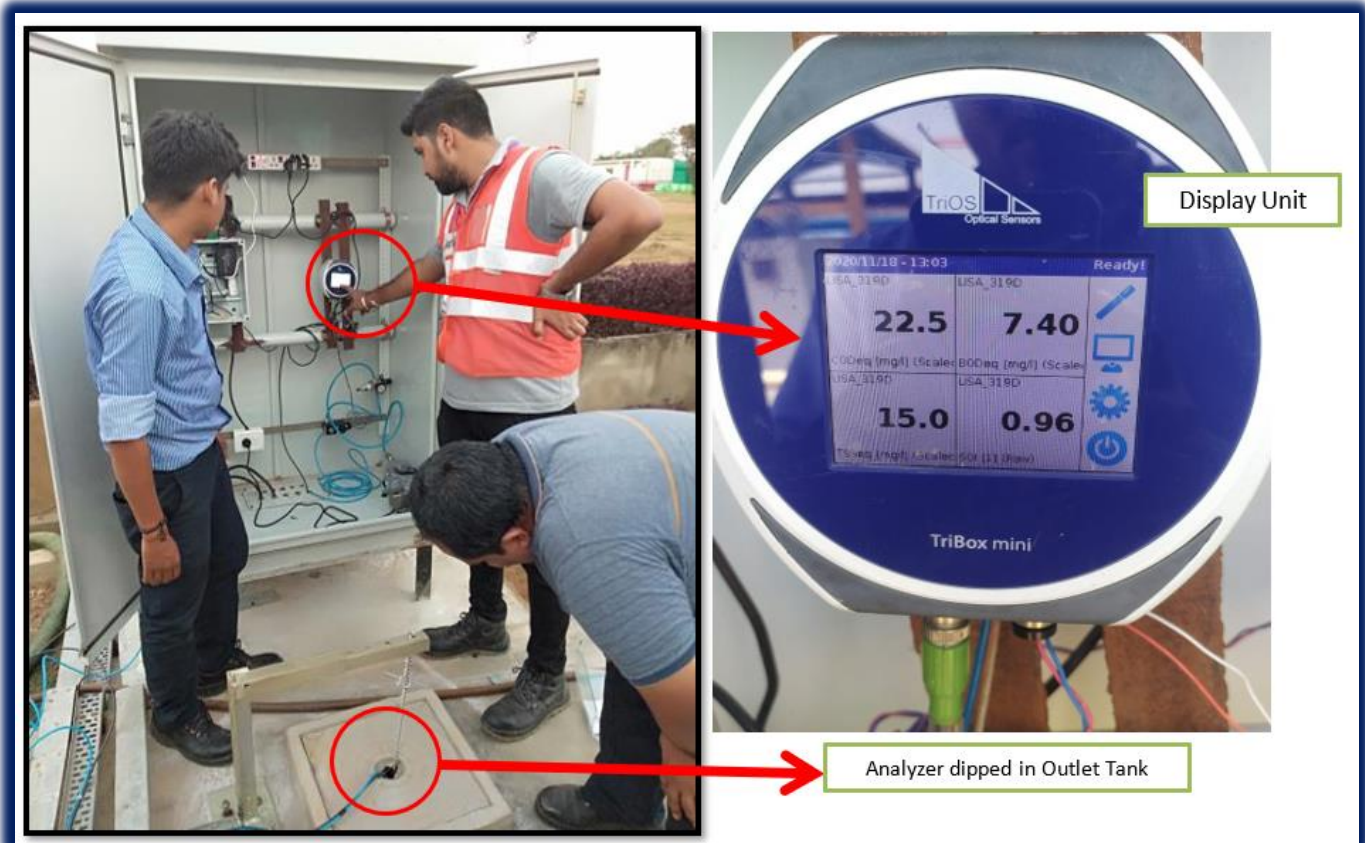
ADANI POWER LIMITED, TIRODA
(Residential Complex)



**Sewage Treatment Plant
(Township)**
(Capacity: 240m³/Day)



Sewage Treatment Plant



Online Monitoring Facility at STP

Ref: APLT/ENV/MPCB/ES/99/23
Date: 29.09.2023

To
The Member Secretary
Maharashtra Pollution Control Board
Kalpataru Point, 2nd – 4th Floor
Opp. Cine Planet Cinema, Near Sion Circle,
Sion (East), Mumbai – 400 022

Sub: Submission of Environment Statement 2022-23 for Residential Complex of Adani Power Limited, Berdipar, Gondia, Maharashtra.

Ref: UAN. MPCB-Environment_Statement-0000061408 dated 29.09.2023

Dear Sir,

With reference to above subject, we have submitted an online Environment Statement for Residential Complex of Adani Power Limited, Berdipar, Gondia, for the financial year 2022-23. A copy of statement is enclosed for your reference.

We hope you will find the report in order.

Thanking You,

Yours faithfully



(Kanti Biswas)
Station Head
Adani Power Limited, Tiroda

Encl.: As Above

Copy for kind information to: -

- 1) The Regional Officer, MPCB RO office, Nagpur.
- 2) The Sub Regional Officer, MPCB SRO office, Bhandara



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000061408

Submitted Date

29-09-2023

PART A

Company Information

Company Name

Residential complex for Tiroda thermal power plant of Adani Power Limited.

Application UAN number

MPCB-CONSENT-0000086203

Address

plot A 1, Tirora Growth centre, MIDC Area, Tirora, Gondia

Plot no

Kachewani, Berdipar

Taluka

Tiroda

Village

MIDC Tirora

Capital Investment (In lakhs)

13850.00

Scale

S.S.I

City

Gondiya

Pincode

Person Name

Kanti Biswas

Designation

Station Head

Telephone Number

8875088555

Fax Number

07198253971

Email

Kanti.Biswas@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

no

Consent Number

MPCB-CONSENT-0000086203

Consent Issue Date

2020-08-17

Consent Valid Upto

2025-03-31

Establishment Year

2015

Date of last environment statement submitted

Sep 29 2022 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	233.00
All others	0.00	0.00
Total	240.00	233.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Domestic Effluent	192	181	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	0.0420	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	7.98	0	-	-
TSS	0	15.5	0	20	-
COD	0	33.7	0	50	-
BOD	0	8.3	0	10	-
AMMONICAL NITROGEN (NH-N)	0	2.45	0	5	-
N-TOTAL	0	2.98	00	10	-
FECAL COLIFORM	0	11	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	772.65	627	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
NA	0	Kg/Annum	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Domestic Bio-degradable waste	8396	Kg/Annum	Food & vegetable and horticulture waste used for composting
Non Biodegradable waste	68190	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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Installed Motion sensor switch for lighting of Common area in all Blocks	0	0	0	48987	6.336	0
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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	1.8
Pollution Control Equipment O&M	STP Operational Cost	19
Green Belt Development including Nursery	Sapling plantation & Maintenance of Existing Green Belt	25
Biomedical Waste Management	BMW handling & disposal as per MPCB Guideline	0.635
Waste Management	Domestic waste handling & Disposal	9.84

[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	Operational Cost	21
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

Part-I

Any other particulars for improving the quality of the environment.

Particulars

NA

Name & Designation

Kanti Biswas, Station Head

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000061408

Submitted On:

29-09-2023

WASTE PROCESSING FACILITIES
Organic waste convertor, Paper recycling units & Solid waste yard





Paper Recycling Unit & Products

Awareness on Waste Management



Awareness for Housemaids on Source Segregation of Waste

Groundwater Recharge through Roof Top Rainwater Harvesting at Residential Complex

Sr. No.	Month	Rainfall (mm)	Rainwater Harvesting (m3)
1	April – 23	50.7	106
2	May – 23	4	8
3	June – 23	204.6	426
4	July – 23	478.8	998
5	August – 23	267.8	558
6	September – 23	392.2	818
Total		1398.1	2914

Rooftop Rainwater Harvesting at Residential Complex

