adani
Ports and Logistics

PCB ID: 10605

APSEZL/EnvCell/2025-26/060

Date: 08.09.2025

To,
Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10-A, Gandhinagar-382010

Dear Sir,

Sub: Environmental Statement for the financial year ending 31st March 2025 for **MPSEZ Utilities Ltd.**

Ref: PCB ID: 10605, CCA Order No. AWH – 113221, issued dated 10.06.2021 Valid till 07.04.2026

With reference to the above-mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for **MPSEZ Utilities Ltd. (MUL-CETP), Plot No. / Survey No. 141 (Part), Village & Taluka: Mundra, Dist. Kutch - 370421** for the financial year ending 31st March 2025.

Thank you,

Yours faithfully,
For **M/s. MPSEZ Utilities Ltd. (MUL-CETP)**

Authorized Signatory

Encl: As above.

11/09/25
Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

Copy to: The Regional Officer, Gujarat Pollution Control Board, Gandhidham

MPSEZ Utilities Ltd.
Adani House,
Nr. Mithakhali Circle, Navrangpura,
Ahmedabad 380 009
Gujarat, India

Tel +91 79 2555 5801 Fax +91 79 2555 6490
info@adani.com
www.adani.com
CIN: U45209GJ2007PTC051323

Registered Office: "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad 382421, Gujarat.

PCB ID: 10605

FORM V
(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2025

PART – A

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	:	Mr. Sujalkumar Shah CEO – Mundra & Tuna Port Adani Ports and SEZ Limited 4th Floor, Adani House, Mundra, Kutch – 370421. Ph No. (02838) 255000
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	:	Red-Large NA NA
(iii)	Production Capacity	:	Common Effluent Treatment Plant: 2.5 MLD
(iv)	Year of Establishment	:	2011
(v)	Date of last Environment Statement submitted	:	02/09/2024

Environment Statement for 2024-25 for M/s MPSEZ Utilities Ltd.

(PCB ID: 10605)

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	Average
Process (Chemical Dosing & CETP Operation)	**3.53** m^3/day
Cooling	Nil
Domestic	**0.88** m^3/day

Details of Water Consumption for the year 2024-25 are enclosed as **Annexure – 1**.

Name of Products	Process Water Consumption per unit of Product Output	
	During the current financial year (2023-24)	During the current financial year (2024-25)
Treated water from CETP*	3,07,962 KL	3,02,564 KL

*** Unit does not go under any manufacturing process. The unit involves common effluent treatment plant (CETP) having 2.5 MLD capacity for treatment of effluent (domestic + industrial) generated from various SEZ industries, APSEZ common facilities and Mundra village. Treated water from CETP is being utilized in gardening / horticulture activity within CETP & SEZ premises.**

Details of Effluent inlet and treated water outlet quantity for the year 2024-25 are enclosed as **Annexure – 1**.

(ii) Raw Material Consumption

Name of Raw Material**	Name of Products	Consumption of Raw Material per Unit of output	
		During the current financial year (2023-24)	During the current financial year (2024-25)
Alum	Effluent Treatment	2928 Kg	2920 Kg
Polyelectrolyte		366 Kg	365 Kg
Sodium Hypochlorite		14640 L	14600 L

**** Unit does not go under any manufacturing process. Raw material consumption as dosing chemicals for neutralization and flocculation of effluent.**

Environment Statement for 2024-25 for M/s MPSEZ Utilities Ltd.

(PCB ID: 10605)

PART – C

Pollutants discharged to Environment/Unit of Output
(Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (Mass/day)		Concentrations of pollutants in discharges (mass/volume)		Percentage of variation from prescribed standards with reasons
(a) Waste Water	**Parameters**	**Avg. Mass Kg/Day**	**Parameters**	**Avg.**	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. The CETP has treated water discharge of 3,02,564 KL during April 2024 – March 2025. 2. Analysis reports of treated water are enclosed as **Annexure – 2**.
	pH	-	pH	7.58	
	Total Suspended Solids	14.44	Total Suspended Solids	17.42	
	Ammoniacal Nitrogen as NH3	9.32	Ammoniacal Nitrogen as NH3	11.24	
	BOD (3 Days @ 27 oC)	21.21	BOD (3 Days @ 27 oC)	25.58	
	COD	70.14	COD	84.61	
(b) Air (DG Stack 380 KVA)	**Parameters**	**Avg. Mass Kg/Day**	**Parameters**	**Avg.**	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. DG set having capacities 380 KVA is provided as a standby power source and used during power failure. Analysis reports of stack monitoring are enclosed as **Annexure – 2.** 2. The ambient air quality monitoring is being done regularly (twice a week) through NABL and MoEF&CC recognized laboratory namely M/s Unistar Environment and Research Labs Pvt. Ltd., Vapi. 3. Analysis reports of ambient air quality monitoring are enclosed as **Annexure – 2**
	Particulate Matter (PM)	0.0004	Particulate Matter (mg/Nm3)	20.83	
	Sulphur Dioxide (SO2)	0.0003	Sulphur Dioxide (PPM)	6.73	
	Nitrogen Oxide (NOx)	0.0009	Nitrogen Oxide (NOx) (PPM)	27.74	

- Unit does not go under any manufacturing process, as the unit involves common effluent treatment plant (CETP) having 2.5 MLD capacity for treatment of effluent generated from various SEZ industries, APSEZ common facilities and Mundra village.

- Details of Effluent inlet and treated water outlet quantity for the year 2024-25 are enclosed as **Annexure – 1.**

Environment Statement for 2024-25 for M/s MPSEZ Utilities Ltd.

(PCB ID: 10605)

PART – D

Hazardous Wastes
(As specified under Hazardous Wastes Management and Handling Rules 2016)

Hazardous Wastes	Total Quantity (Kg)	
	During the current financial year (2023-24)	During the current financial year (2024-25)
(a) From Process	26.78 MT (CETP Sludge)	32.17 MT (CETP Sludge)
(b) From Pollution Control facilities	Details is Attached as **Annexure-3**	

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the current financial year (2023-24)	During the current financial year (2024-25)
(a) From Process (Ash)	NIL	NIL
(b) From Pollution Control facilities	Details is Attached as **Annexure-3**	
(C-1) Quantity recycled or reutilized within the unit		
(C-2) Sold		
(C-3) Disposed		

** Above mentioned solid waste details are of the entire APSEZ area including CETP. The solid waste of CETP is also being managed in APSEZ waste management system. The solid waste (glass, paper, plastic, metal scrap and food waste) categorized in Recyclable Waste, Wet Waste and Refused Derived Fuel (RDF) and managed in common waste management facility of APSEZ.

,

Environment Statement for 2024-25 for M/s MPSEZ Utilities Ltd.

(PCB ID: 10605)

PART - F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

- "Zero Waste company" initiative by APSEZ i.e. No waste is being sent to landfill or incineration facility @ Adani Ports & SEZ, rather being managed through 5 R principal of waste Management.
- APSEZ has an eminent material recovery facility (MRF), having appropriate facility to proper segregate & recover the materials as per set process. Mixed Waste is being segregated via specialized mix waste segregation machine in two forms –Bio and Non bio without manual segregation, where risk to health hazards is minimized. Further waste is segregated into 16 streams at MRF, which is sent to different end users following the 5 R principle. To manage all operation of MRF, APSEZ developed local vendor though his past learnings and employed local women staff mainly to segregate waste.
- Wet Waste is being managed through Organic Waste Composting Facility and Biogas generation.
- Installed 02 no's biogas plant at Central Kitchen location. This plant is sufficient to manage the food Waste generated from the APSEZ area. (700 Kg + 200 kg per day)
- Dry waste and e-waste collection drive is being organized every month within townships to collect municipal solid waste as well as e-waste from households.
- Plastic Free APSEZ Drive-which demonstrate commitment towards elimination of single use plastic.
- Plastic free APSEZ Drive:
    - APSEZ pasted stickers spreading awareness among their zone as plastic are prohibited now.
    - Replacement of conventional plastic garbage collection bag with biodegradable / compostable bags & also Rafia bags (more than 120 µm size) for other waste collection.
    - Conducted Training Awareness Programme with Adani Foundation for Student on "Single Use Plastic Ban" at Adani Vidya Mandir, Bhadreshwar.
    - APSEZ, Mundra organized the beach cleaning activity on 2nd April 2024 at Mandavi Beach on the occasion of National Maritime Day/Week. The event was not just a routine cleanup, but a testament to the collective dedication of Adani employees, their families, children, and the Coast Guard team towards environmental stewardship and maritime heritage preservation. Around 250 kgs of waste was collected and disposed of as RDF in Ambuja Cement.
    - Awareness sessions organized among department and contract workers.
    - Made shop keepers and canteen owners to stop providing plastic carry bags to carry the material.
    - Regular supervision by Team Members at Port Canteens and Shops townships for verification of prohibition of plastic.
    - Defined 3 Levels to achieve plastic free APSEZ.

- APSEZ, Mundra has been awarded the Zero Waste to Landfill Management System certification (Certificate No.: CII/ZWL/2025/001) by the Confederation of Indian Industry (CII), valid until 22nd December 2027.

- Sludge generated from STP is being utilized as manure for horticulture purposes.

- SEZ industries are managing their waste as per their own standard procedure and following regulatory norms.

- APSEZ, demonstrating its dedication to environmental responsibility, organized a week-long program for World Environment Day/Week 2024 (June 4th - 12th). The theme, "Land Restoration, Desertification, and Drought Resilience," led a series of events focused on planting trees, raising awareness, and promoting action. Over 1,000 saplings were planted near the ASHAPURA Canteen. Employees received indoor plants and participated in a cleanliness drive, collecting nearly 500 kg of waste responsibly disposed of as fuel. An awareness campaign targeting children in Shantivan & Samundra Colony focused on banning single-use plastic and water conservation. Knowledge sharing was fostered through an external training program on environmental regulations for APSEZ employees and other businesses in the SEZ. Encouraging creativity, APSEZ held online quizzes, poster competitions and waste to best. The week concluded with a special event at Adani Public School, where students took an environmental oath and received Tulsi plants. Winners of various competitions were also recognized.

PART – G

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

Energy Savings (APSEZ)

- 217 nos. of Electrical truck Vehicle for internal movement of material (E-ITV's).
- 10 nos. of Electrical Car for movement of employees and all are working.
- Replacement of diesel loco by Electrified railway line of approx. 91 km from West port to Adipur Railway station.
- Installed 8.8 MW roof top solar generating plant at various locations and 22.4 MW (10.4 MW installed in 2023-24) wind generating plant in SEZ in Mundra.
- Installed 8.8 MW roof top solar generating plant at various locations in SEZ in Mundra which is generated nearly 8.54 million units and utilized the renewable source of energy for captive use this reduced the emission of CO2 by nearly 7002 tCo2e.

- **Water Conservation:**
  - Water reducers have been installed in the Residence Area and various offices.
  - Waterless urinals have been placed in various offices.
  - Modifications of flush tank have been added in water system of toilet area in Port User Buildings.
  - Recollection of water provided for hydro testing through water.
  - Sensor based automatic On/Off pump & Automatic controlled water tap which eliminates the manual Intervention and reduce the water wastage.
  - Digitization of Commercial water flow meter and domestic water meters at residential (Samundra) township for real-time monitoring and tracking the water consumption.
  - 100% Utilization of treated water for horticulture use

- Following safeguard measures are taken for abatement of dust and noise emissions:
  - ✓ Regular sprinkling on road and other open area
  - ✓ Regular cleaning of roads
  - ✓ D.G. Set having acoustic enclosures

- ✓ Adequate greenbelt and plantation area

PART – H

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

- APSEZ has started 8000 nos of plantation at Moti Bhujpur under CER activity under the project 1840 ha. EC condition to showcase its commitment for protection of environment & climate change.
- Treated water from STP is used for gardening and horticulture activity within APSEZ premises to conserve freshwater consumption.
- Unit has formed a dedicated Horticulture department & developing green belt within port premises.
- In CETP more than 11.26 ha. area is developed as greenbelt with samplings of more than 9963.
- In entire APSEZ more than 457.99 ha. area is developed as greenbelt with samplings of more than 9.06 Lacs.
- The following safeguard measures are taken for abatement of dust and noise emissions.
  - ✓ Regular sprinkling on road and other open areas
  - ✓ Regular cleaning of roads
  - ✓ Development of greenbelt along the periphery of the storage yards/back up area
  - ✓ D.G. Sets having acoustic enclosures.

PART – I

Any other particulars for improving the quality of environment:

- Monitoring of environmental parameters such as Air, Noise, and wastewater quality being done regular basis through MoEF&CC & NABL recognized laboratory (M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi).
- APSEZ Budget for environmental management measures (including horticulture) for the FY 2024-25 is to the tune of INR **1340.21** lakh. Out of which, Approx. INR **1029.51** is spent during the year FY 2024-25. Detailed breakup of the expenditures for the FY 2024-25 is attached as **Annexure – 4**.
- APSEZ is driving paperless office and plastic free drive to eliminate the use of papers and plastic materials to the extent possible within ports, SEZ and residential townships.

Date: 08-09-2025

(Signature of a person carrying out an industry, operation or process)
Designation: **Head-Environment Cell**

Environment Statement for 2024-25 for M/s MPSEZ Utilities Ltd.

(PCB ID: 10605)

Annexure – 1

Water Consumption and Wastewater Details (April'24 to March'25)

Month	Wastewater details		Common Effluent Treatment Plant (CETP) Month wise Water consumption data in KL		
	Effluent & Sewage Water, KL	Treated Water, KL	Domestic, KL (Category-2)	Industrial, KL (Category-3)	Total, KL
Apr-24	27118	23499	24	96	120
May-24	29155	25354	29	118	147
Jun-24	27408	23989	24	96	120
Jul-24	35856	33177	23	93	116
Aug-24	36756	32163	22	87	109
Sep-24	20068	18959	21.4	85.6	107
Oct-24	30448	26184	28.4	113.6	142
Nov-24	25110	23187	23	92	115
Dec-24	20937	18055	32.2	128.8	161
Jan-25	30619	27001	22.4	89.6	112
Feb-25	26400	22552	33.4	133.6	167
Mar-25	31634	28444	38.8	155.2	194
Total	**341509**	**302564**	**321.6**	**1288.4**	**1610**
Per Month	**28459.08**	**25213.67**	**26.80**	**107.37**	**134.17**
Per Day	**935.64**	**828.94**	**0.88**	**3.53**	**4.41**

White House
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RESULTS OF CETP INLET WATER

SR.NO.	TEST PARAMETERS	UNIT	CETP INLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24		
			04-04-2024	24-05-2024	27-06-2024	31-07-2024	06-08-2024	12-09-2024		
1.	pH @ 27 ° C	--	7.44	7.24	7.25	7.6	7.69	7.86	6.5 to 8.5	IS 3025(Part 11):2022
2.	Temperature	^{0}C	30.5	31.5	31	30	30	30	--	IS 3025(Part 9):2023
3.	Colour	Pt. Co. Scale	80	70	70	60	60	50	100	IS 3025(Part 4):2021
4.	Total Suspended Solids	mg/L	58	48	86	44	70	74	800	APHA 24th Ed.2023,2540 –D
5.	Oil & Grease	mg/L	4	4.5	4	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	20	IS 3025(Part 39):2021
6.	Phenolic Compound	mg/L	0.56	0.62	0.55	BDL(MDL:2.0)	BDL(MDL:0.1)	BDL(MDL:0.1)	2	IS 3025(Part 43):2022
7.	Fluoride	mg/L	1.11	1.18	1.06	1.2	0.81	1.65	2	APHA 24th Ed.2023,4500 F, D
8.	Iron as Fe	mg/L	0.168	0.149	0.144	BDL(MDL:0.1)	0.39	0.145	3	IS 3025(Part 53):2003,
9.	Zinc as Zn	mg/L	0.111	0.122	0.134	0.06	0.079	BDL(MDL:0.05)	15	IS 3025(Part 49):1994
10.	Trivalent Chromium	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	3	By Calculation
11.	Sulphide	mg/L	0.68	0.58	0.62	0.61	BDL(MDL:0.05)	0.9	2	APHA 24th Ed.2023,4500 S-2 F

Continue…

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Environment and Research Labs Pvt. Ltd.

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SR.NO.	TEST PARAMETERS	UNIT	CETP INLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24		
			04-04-2024	24-05-2024	27-06-2024	31-07-2024	06-08-2024	12-09-2024		
12.	Ammonical Nitrogen	mg/L	42.2	38.9	15.3	25.8	19.2	21.5	50	IS 3025 (Part 34):1988,
13.	BOD (3 days at 27 ^{0}C)	mg/L	120	130	128	123	81	65	1000	IS 3025 (Part 44):2023
14.	COD	mg/L	404.5	434.4	272	410	270.4	216.9	2000	IS 3025 (Part 58):2023
15.	Chloride (as Cl) $^-$	mg/L	814.6	846.2	490	813.1	822.9	684.8	1000	IS 3025 (Part 32):1988
16.	Sulphate (as SO_4)	mg/L	54	62	56	143.4	100.6	254.3	1000	IS 3025 (Part 24):2022
17.	Total Dissolved Solids	mg/L	1648	1670	810	1904	1892	1860	2100	APHA 24th Ed.2023,2540- C
18.	Total Residual Chlorine	mg/L	0.68	0.74	BDL(MDL:0.1)	0.74	BDL(MDL:0.2)	0.84	2	IS 3025 (Part 26):2021
19.	Copper as Cu	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	0.0574	BDL(MDL:0.05)	BDL(MDL:0.05)	3	IS 3025 (Part 42):1992

UNISTAR ENVIRONMENT & RESEARCH LABS PVT. LTD. * GUJARAT VAPI.

Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

UniStar
Environment and Research Labs Pvt. Ltd.

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Email : response@uerl.in Website : www.uerl.in

RESULTS OF CETP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	CETP OUTLET						GPCB Permissible Limit CETP Outlet	TEST METHOD
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24		
			04-04-2024	24-05-2024	27-06-2024	31-07-2024	06-08-2024	12-09-2024		
1.	pH @ 27 ° C	--	7.42	7.22	7.24	7.56	7.75	8.03	6.0 – 9.0	IS 3025(Part 11):2022
2.	Temperature	^{0}C	30	31.5	31	30	30	30	Shall not exceed more than 5 ^{0}C above received water temperatur e	IS 3025(Part 9):2023
3.	Colour	Pt. Co. Scale	40	40	40	50	50	50	100	IS 3025(Part 4):2021
4.	Total Suspended Solids	mg/L	22	26	9	10	14	10	100	APHA 24th Ed.2023,2540 –D
5.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	10	IS 3025(Part 39):2021
6.	Phenolic Compound	mg/L	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	1	IS 3025(Part 43):2022
7.	Fluoride	mg/L	1.05	1.14	1	1.15	1.24	1.2	2	APHA 24th Ed.2023,4500 F, D
8.	Iron as Fe	mg/L	0.124	0.133	0.118	BDL(MDL:0.1)	0.182	BDL(MDL:0.1)	3	IS 3025(Part 53):2003,
9.	Zinc as Zn	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	15	IS 3025(Part 49):1994
10.	Trivalent Chromium	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	2	By Calculation

Continue…

SR.NO.	TEST PARAMETERS	UNIT	CETP OUTLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24		
			04-04-2024	24-05-2024	27-06-2024	31-07-2024	06-08-2024	12-09-2024		
11.	Sulphide	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	**2**	APHA 24th Ed.2023,4500 S-2 F
12.	Ammonical Nitrogen	mg/L	26.6	28.3	2.5	4.5	3.4	1.2	**50**	IS 3025(Part 34):1988,
13.	BOD (3 days at 27 ^{0}C)	mg/L	26	29	31	39	40	28	**100**	IS 3025(Part 44):2023
14.	COD	mg/L	84.2	96.4	82	130	134.2	92.2	**250**	IS 3025(Part 58):2023
15.	Chloride (as Cl) -	mg/L	804	812.4	670.2	784	788.4	650.8	**1000**	IS 3025(Part 32):1988
16.	Sulphate (as SO_4)	mg/L	52	56	50	129.2	116.7	246.2	**1000**	IS 3025(Part 24):2022
17.	Total Dissolved Solids	mg/L	1642	1662	1674	1780	1800	1852	**2100**	APHA 24th Ed.2023,2540- C
18.	Total Residual Chlorine	mg/L	0.66	0.74	0.52	0.74	0.72	0.92	**1**	IS 3025(Part 26):2021
19.	Copper as Cu	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	**3**	IS 3025(Part 42):1992
20.	Bio Assay test (%)	%	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	**90 % survival of fish after 96 hrs. in 100% effluent**	IS:6582-1971

Mr. Nilesh Patel
Sr. Chemist

GUJARAT VAPI. UNISTAR ENVIRONMENT & RESEARCH LABS PVT. LTD.

Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

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Vapi - 396 195. Gujarat, India.
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Email : response@uerl.in Website : www.uerl.in

Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
1.	01-04-2024	80.15	37.82	18.27	22.74	NOT DETECTED	7.73	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED
2.	04-04-2024	83.74	40.13	20.74	25.49	--	--	--	--	--	--	--	--
3.	08-04-2024	78.4	35.68	19.13	23.96	--	--	--	--	--	--	--	--
4.	11-04-2024	83.57	39.71	18.93	23.66	--	--	--	--	--	--	--	--
5.	15-04-2024	79.91	36.48	21.26	25.73	--	--	--	--	--	--	--	--
6.	18-04-2024	77.48	33.62	18.94	22.91	--	--	--	--	--	--	--	--
7.	22-04-2024	80.64	35.48	19.52	23.16	--	--	--	--	--	--	--	--
8.	25-04-2024	83.45	39.11	21.53	25.38	--	--	--	--	--	--	--	--
9.	29-04-2024	78.81	35.34	19.79	24.25	--	--	--	--	--	--	--	--
10.	02-05-2024	81.73	37.12	19.35	24.1	--	--	--	--	--	--	--	--
11.	06-05-2024	79.35	34.86	18.11	22.95	--	--	--	--	--	--	--	--
12.	09-05-2024	83.48	36.37	20.34	25.37	--	--	--	--	--	--	--	--
13.	13-05-2024	81.83	34.91	20.59	24.86	--	--	--	--	--	--	--	--
14.	16-05-2024	84.15	38.12	22.01	26.53	--	--	--	--	--	--	--	--
15.	20-05-2024	80.94	35.63	21.03	25.91	--	--	--	--	--	--	--	--

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Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
16.	23-05-2024	77.64	32.78	18.23	22.89	--	--	--	--	--	--	--	--
17.	27-05-2024	79.62	34.14	19.81	23.46	--	--	--	--	--	--	--	--
18.	30-05-2024	82.25	36.66	21.45	26.51	--	--	--	--	--	--	--	--
19.	03-06-2024	80.41	36.52	19.75	23.21	--	--	--	--	--	--	--	--
20.	06-06-2024	82.74	37.11	21.23	25.37	--	--	--	--	--	--	--	--
21.	10-06-2024	80.16	35.1	20.12	24.81	--	--	--	--	--	--	--	--
22.	13-06-2024	78.64	32.75	19.38	23.37	--	--	--	--	--	--	--	--
23.	17-06-2024	73.28	31.25	19.13	22.61	--	--	--	--	--	--	--	--
24.	20-06-2024	75.13	33.68	20.43	23.55	--	--	--	--	--	--	--	--
25.	24-06-2024	55.21	29.75	17.24	20.53	--	--	--	--	--	--	--	--
26.	27-06-2024	47.63	26.18	15.74	18.95	--	--	--	--	--	--	--	--
27.	01-07-2024	44.75	22.48	13.73	16.37	NOT DETECTED	NOT DETECTED	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED
28.	04-07-2024	53.47	27.53	15.76	18.15	--	--	--	--	--	--	--	--
29.	08-07-2024	61.28	31.57	17.24	20.82	--	--	--	--	--	--	--	--
30.	11-07-2024	57.49	29.62	15.79	18.42	--	--	--	--	--	--	--	--
31.	15-07-2024	54.68	24.37	14.05	17.64	--	--	--	--	--	--	--	--

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Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
32.	18-07-2024	63.15	27.21	17.51	20.38	--	--	--	--	--	--	--	--
33.	22-07-2024	56.63	25.86	15.13	18.65	--	--	--	--	--	--	--	--
34.	25-07-2024	49.84	20.84	13.27	16.86	--	--	--	--	--	--	--	--
35.	29-07-2024	43.77	17.65	12.83	16.14	--	--	--	--	--	--	--	--
36.	01-08-2024	51.38	20.73	12.65	15.48	--	--	--	--	--	--	--	--
37.	05-08-2024	56.29	23.64	13.11	16.83	--	--	--	--	--	--	--	--
38.	08-08-2024	50.94	22.48	12.85	15.93	--	--	--	--	--	--	--	--
39.	12-08-2024	54.18	21.85	13.37	16.45	--	--	--	--	--	--	--	--
40.	15-08-2024	60.31	25.02	14.71	17.32	--	--	--	--	--	--	--	--
41.	19-08-2024	58.62	24.38	14.24	16.98	--	--	--	--	--	--	--	--
42.	22-08-2024	53.29	22.43	13.11	16.27	--	--	--	--	--	--	--	--
43.	26-08-2024	51.48	21.14	12.83	15.38	--	--	--	--	--	--	--	--
44.	29-08-2024	59.19	23.1	14.15	17.11	--	--	--	--	--	--	--	--
45.	02-09-2024	52.73	21.24	12.92	15.38	--	--	--	--	--	--	--	--
46.	05-09-2024	50.91	19.89	11.67	14.58	--	--	--	--	--	--	--	--
47.	09-09-2024	53.17	21.63	12.57	15.44	--	--	--	--	--	--	--	--

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Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
48.	12-09-2024	55.48	22.15	12.98	16.03	--	--	--	--	--	--	--	--
49.	16-09-2024	58.64	24.1	13.46	16.37	--	--	--	--	--	--	--	--
50.	19-09-2024	53.19	21.95	12.58	15.42	--	--	--	--	--	--	--	--
51.	23-09-2024	56.29	23.14	13.37	16.11	--	--	--	--	--	--	--	--
52.	26-09-2024	52.73	21.16	12.74	15.82	--	--	--	--	--	--	--	--
53.	30-09-2024	55.28	22.32	13.25	16.72	--	--	--	--	--	--	--	--
Permissible Value as per NAAQMS		**100.0**	**60.0**	**80.0**	**80.0**	**2.0**	**400**	**100**	**1**	**20**	**6**	**5**	**1**
Test Method		**IS - 5182, Part- 23**	**UERL/AIR/SOP/11**	**IS - 5182, Part - 2**	**IS - 5182, Part - 6**	**IS - 5182, Part - 10**	**UERL/AIR/SOP/05**	**IS – 5182, Part – 9**	**IS – 5182, Part – 22**	**IS – 5182, Part – 22**	**IS – 5182, Part – 22**	**IS – 5182, Part – 11**	**IS – 5182, Part – 12**

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Results of Ambient Air Quality Monitoring

Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
1.	01-04-2024	83.35	33.41	19.64	23.15	0.12	<5.0	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	--
2.	04-04-2024	80.12	29.75	18.89	21.97	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
3.	08-04-2024	82.57	31.94	19.37	22.69	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
4.	11-04-2024	85.14	35.25	21.43	26.04	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
5.	15-04-2024	80.47	33.32	20.11	25.42	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
6.	18-04-2024	76.05	30.74	18.68	21.47	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
7.	22-04-2024	82.37	32.46	19.51	22.94	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
8.	25-04-2024	85.42	35.17	21.31	26.12	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
9.	29-04-2024	81.31	31.47	20.24	24.37	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
10.	02-05-2024	79.63	29.19	17.84	21.91	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
11.	06-05-2024	81.35	31.48	19.36	23.42	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

Continue…

Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
12.	09-05-2024	80.11	30.29	20.14	24.57	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
13.	13-05-2024	78.52	28.64	18.28	22.16	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
14.	16-05-2024	75.49	27.1	17.21	21.91	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
15.	20-05-2024	81.15	29.89	19.34	23.42	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
16.	23-05-2024	77.49	27.54	17.12	21.83	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
17.	27-05-2024	81.43	31.71	19.84	23.17	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
18.	30-05-2024	83.35	32.69	20.31	24.55	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
19.	03-06-2024	81.27	30.13	18.92	21.35	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
20.	06-06-2024	78.36	28.75	17.43	21.84	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
21.	10-06-2024	81.41	30.19	19.42	23.14	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
22.	13-06-2024	80.15	29.63	18.64	22.83	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
23.	17-06-2024	77.46	27.1	17.42	20.38	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

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Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
24.	20-06-2024	74.39	25.91	16.57	19.79	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
25.	24-06-2024	61.38	22.52	14.31	17.84	0.03	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
26.	27-06-2024	54.98	19.65	11.85	15.23	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
27.	01-07-2024	51.63	18.37	11.49	14.21	NOT DETECTED	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	--
28.	04-07-2024	58.71	20.86	12.86	16.45	0.04	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
29.	08-07-2024	63.75	21.64	15.42	19.76	0.06	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
30.	11-07-2024	72.39	23.48	17.35	20.88	0.04	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
31.	15-07-2024	73.95	26.22	18.51	22.24	0.07	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
32.	18-07-2024	69.87	23.75	15.48	19.73	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
33.	22-07-2024	72.36	25.94	16.59	19.11	0.03	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
34.	25-07-2024	66.48	22.36	14.37	18.63	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
35.	29-07-2024	63.57	20.39	11.87	14.31	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

Continue…

Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
36.	01-08-2024	58.14	20.05	12.63	15.82	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
37.	05-08-2024	62.39	21.37	13.48	16.14	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
38.	08-08-2024	65.13	22.35	14.12	18.06	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
39.	12-08-2024	60.32	20.86	13.25	16.28	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
40.	15-08-2024	64.74	22.11	14.59	17.36	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
41.	19-08-2024	67.42	23.61	14.96	18.1	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
42.	22-08-2024	69.31	24.13	15.11	18.74	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
43.	26-08-2024	62.64	22.25	13.21	16.47	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
44.	29-08-2024	65.38	23.56	14.28	17.42	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
45.	02-09-2024	60.13	20.93	13.15	16.69	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
46.	05-09-2024	64.38	21.63	13.75	16.91	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
47.	09-09-2024	62.19	20.85	12.79	15.68	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

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Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
48.	12-09-2024	65.11	23.19	13.88	16.13	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
49.	16-09-2024	68.38	24.83	14.57	17.42	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
50.	19-09-2024	64.59	22.38	13.71	16.54	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
51.	23-09-2024	66.72	24.15	14.24	17.80	0.05	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
52.	26-09-2024	63.5	22.12	13.72	16.36	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
53.	30-09-2024	65.18	23.42	14.31	17.13	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
Permissible Value as per NAAQMS		**100.0**	**60.0**	**80.0**	**80.0**	**2.0**	**400**	**100**	**1**	**20**	**6**	**5**	**1**	**---**
Test Method		**IS - 5182, Part-23**	**UERL/AIR/SOP/11**	**IS - 5182, Part - 2**	**IS - 5182, Part - 6**	**IS - 5182, Part - 10**	**UERL/AIR/SOP/05**	**IS – 5182, Part – 9**	**IS – 5182, Part – 22**	**IS – 5182, Part – 22**	**IS – 5182, Part – 22**	**IS – 5182, Part – 11**	**IS – 5182, Part – 12**	**Gas analyzer**

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Results of Noise Level Monitoring

Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		03-04-2024	04-05-2024	05-06-2024	03-07-2024	03-08-2024	03-09-2024
1	06:00 to 07:00	63.1	62.8	61.5	60.8	60.2	59.5
2	07:00 to 08:00	65.6	64.9	63.7	64.1	63.5	59.9
3	08:00 to 09:00	67.1	67.3	64.8	66.1	64.8	61.7
4	09:00 to 10:00	65.8	66.7	63.4	64.7	66.5	62.4
5	10:00 to 11:00	65.7	64.9	66.2	67.4	65.2	64.6
6	11:00 to 12:00	67.4	65.7	65.4	64.3	66.7	66.1
7	12:00 to 13:00	65.2	66.3	67.2	65.9	66.3	65.4
8	13:00 to 14:00	64.5	65.4	64.9	63.6	64.8	64.7
9	14:00 to 15:00	67.1	66.8	65.2	64.6	63.7	65.6
10	15:00 to 16:00	65.9	64.2	67.8	65.8	64.7	65.2
11	16:00 to 17:00	65.4	66.1	65.4	65.1	65.4	63.6
12	17:00 to 18:00	65.8	65.8	67.1	67.3	66.3	65.1
13	18:00 to 19:00	65.1	63.2	65.3	64.5	64.3	65.7
14	19:00 to 20:00	63.8	62.3	64.3	65.2	62.8	64.4
15	20:00 to 21:00	60.3	60.6	61.8	63.4	62.7	63.5
16	21:00 to 22:00	60.5	62.4	61.7	61.9	61.3	60.8
Day Time		<75 dB (A)					

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Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		03-04-2024	04-05-2024	05-06-2024	03-07-2024	03-08-2024	03-09-2024
1	22:00 to 23:00	60.9	60.2	59.8	58.9	59.3	60.5
2	23:00 to 24:00	63.4	61.8	60.6	61.3	60.6	59.4
3	24:00 to 01:00	62.3	63.6	62.7	61.7	62.4	60.6
4	01:00 to 02:00	61.4	62.4	61.4	62.5	61.4	63.4
5	02:00 to 03:00	60.5	62.5	62.7	61.7	63.1	61.7
6	03:00 to 04:00	62.3	60.4	61.5	60.4	62.3	61.4
7	04:00 to 05:00	61.6	62.3	59.8	60.2	59.7	60.3
8	05:00 to 06:00	58.3	60.1	60.3	59.7	58.8	58.2
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981

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Results of Noise Level Monitoring

Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		13-04-2024	18-05-2024	15-06-2024	13-07-2024	13-08-2024	14-09-2024
1	06:00 to 07:00	60.8	61.3	63.2	62.8	62.3	63.7
2	07:00 to 08:00	62.7	63.2	65.4	65.1	64.8	63.2
3	08:00 to 09:00	64.6	64.7	66.4	64.7	63.4	65.1
4	09:00 to 10:00	66.8	66.2	67.8	65.5	64.5	65.6
5	10:00 to 11:00	65.1	64.6	65.4	65.4	66.8	66.8
6	11:00 to 12:00	64.8	67.3	68.7	68.2	65.4	64.2
7	12:00 to 13:00	68.3	67.8	65.8	67.5	65.9	66.5
8	13:00 to 14:00	66.7	65.4	67.8	65.8	66.3	63.9
9	14:00 to 15:00	65.2	66.2	65.5	66.4	65.2	64.7
10	15:00 to 16:00	66.4	64.9	63.8	67.1	67.4	66.5
11	16:00 to 17:00	63.8	64.7	65.1	65.4	66.4	66.1
12	17:00 to 18:00	66.5	65.2	66.8	66.4	64.5	65.3
13	18:00 to 19:00	63.8	65.5	65.1	65.1	64.8	66.8
14	19:00 to 20:00	65.1	63.8	65.9	64.8	63.4	65.5
15	20:00 to 21:00	65.4	64.1	64.5	62.5	63.8	64.1
16	21:00 to 22:00	62.3	61.8	62.2	64.1	62.2	62.4
Day Time		<75 dB (A)					

Continue…

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Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		13-04-2024	18-05-2024	15-06-2024	13-07-2024	13-08-2024	14-09-2024
1	22:00 to 23:00	58.8	58.2	58.5	59.7	59.5	58.7
2	23:00 to 24:00	59.8	60.4	58.8	58.5	59.8	60.4
3	24:00 to 01:00	60.3	62.9	61.5	59.4	60.3	61.7
4	01:00 to 02:00	62.5	61.3	61.8	62.1	62.2	63.8
5	02:00 to 03:00	60.7	63.2	62.5	60.5	61.7	61.2
6	03:00 to 04:00	62.3	62.4	61.4	60.2	60.4	62.6
7	04:00 to 05:00	60.7	61.4	60.5	58.7	59.6	61.2
8	05:00 to 06:00	59.6	60.2	59.6	58.1	57.8	59.7
Day Time		<70 dB (A)					

Test Method	IS: 9989 : 1981

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Results of Stack Monitoring

Sr. No.	Parameter	Unit	Sep-2024 D.G.Set No. S-1 (380 KVA) 28-09-2024	GPCB LIMIT	Method of Test
1	Particulate Matter	mg/Nm^3	19.6	**150**	**IS 11255 (Part - 1)**
2	Sulphur Dioxide as SO_2	ppm	5.8	**100**	**IS 11255 (Part - 2)**
3	Oxides of Nitrogen as NO_X	ppm	25.47	**50**	**IS 11255 (Part - 7)**
4	Carbon Monoxide	mg/Nm3	3.4	--	**UERL/AIR/SOP/18**
5	Non Methyl Hydro Carbon	ppm	Not Detected	--	**UERL/AIR/SOP/27**

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RESULTS OF BOREHOLE WATER SAMPLE

Sr. No	Parameters	Method	Unit	12-02-2024
				Nr. CETP
1	pH @ 25 ° C	IS 3025(Part 11)1983	--	8.18
2	Salinity	APHA 23rd Ed.,2017,2520 B	ppt	1.77
3	Oil & Grease	IS 3025(Part39)1991, Amd. 2	mg/L	BDL(MDL:5.0)
4	Hydrocarbon	GC/GCMS	mg/L	Not Detected
5	Lead as Pb	IS 3025 (PART 47) 1994	mg/L	BDL(MDL:0.01)
6	Arsenic as As	APHA 23rd Ed.,2017,3114-C	mg/L	BDL(MDL:0.01)
7	Nickel as Ni	IS 3025 (PART 54) 2003	mg/L	BDL(MDL:0.02)
8	Total Chromium as Cr	IS 3025 (PART 52) 2003	mg/L	BDL(MDL:0.05)
9	Cadmium as Cd	IS 3025(PART 41) 1992	mg/L	0.036
10	Mercury as Hg	APHA 23rd Ed.,2017, 3112-B	mg/L	BDL(MDL:0.001)
11	Zinc as Zn	IS 3025(PART 49) 1994	mg/L	BDL(MDL:0.05)
12	Copper as Cu	IS 3025 (PART 42) 1992	mg/L	BDL(MDL:0.05)
13	Iron as Fe	IS 3025(PART 53) 2003	mg/L	0.322
14	Insecticides/Pesticides	USEPA 8081 B	µg/L	Absent
15	Depth of Water Level from Ground Level	--	meter	2.1

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RESULTS OF SOIL SAMPLE

SR. NO.	TEST PARAMETERS	UNIT	12-02-2024
			Near CETP
1	pH	--	9.08
2	Nitrogen as N	%	0.46
3	Phosphorus as P	mg/kg	5114.2
4	Potassium as K	mg/kg	152.3
5	Baron as B	mg/kg	3.05
6	Calcium as Ca	mg/kg	412.3
7	Magnesium as Mg	mg/kg	66.4
8	Iron as Fe	%	1.02
9	Moisture	%	1.84
10	Organic Matter	%	1.56
11	Cation exchange capacity (CEC)	meq/100gm	10.11
12	TVC	CFU/gm	2.2×10^6
13	Cadmium as Cd	mg/kg	BDL(MDL:1.0)
14	Thorium as Th	mg/kg	BDL(MDL:1.0)
15	Antimony as Sb	mg/kg	BDL(MDL:1.0)
16	Arsenic as As	mg/kg	BDL(MDL:1.0)

Continue…

17	Lead as Pb	mg/kg	7.38
18	Chromium as Cr	mg/kg	4.34
19	Cobalt as Co	mg/kg	9.94
20	Copper as Cu	mg/kg	16.2
21	Nickel as Ni	mg/kg	13.92
22	Manganese and Mn	mg/kg	182.24
23	Vanadium as V	mg/kg	8.33

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Minimum Detection Limit

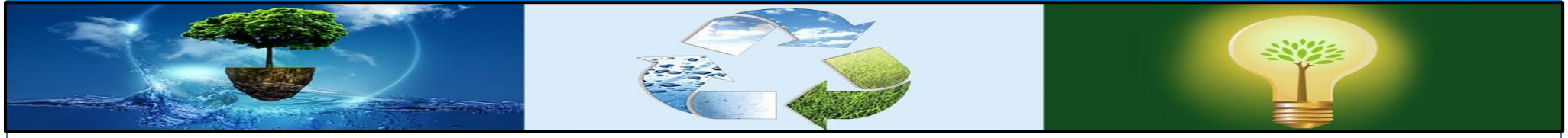
Ambient Air Quality Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m3	5 µg/m3
2	Particulate Matter (PM2.5)	µg/m3	5 µg/m3
3	Sulphur Dioxide (SO2)	µg/m3	4 µg/m3
4	Nitrogen Dioxide (NO2)	µg/m3	5 µg/m3
5	Carbon Monoxide (CO)	mg/m3	0.01 mg/m3
6	Ammonia (NH3)	µg/m3	5 µg/m3
7	Ozone (O3)	µg/m3	5 µg/m3
8	Lead (Pb)	µg/m3	0.5 µg/m3
9	Nickle (Ni)	ng/m3	1 ng/m3
10	Arsenic (As)	ng/m3	1 ng/m3
11	Benzene	µg/m3	1µg/m3
12	Benzo(o)Pyrene	ng/m3	0.1 ng/m3
13	Hydro Carbon	µg/m3	1 µg/m3

Stack Emission Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	SuspeNOT DETECTEDed particulate matter	mg/Nm3	2 mg/Nm3
2	Sulphur Dioxide SOX	mg/Nm3	4 mg/Nm3
3	Oxides of Nitrogen NOX	mg/Nm3	5 mg/Nm3

CETP water			
Sr. No.	**Test Parameter**	**Unit**	**MDL**
1	pH @ 27 ° C	--	2
2	Temperature	0C	5
3	Colour	Pt. Co. Scale	5
4	Total SuspeNOT DETECTEDed Solids	mg/L	4
5	Oil & Grease	mg/L	2
6	Phenolic CompouNOT DETECTED	mg/L	0.1
7	Fluoride	mg/L	0.2
8	Iron as Fe	mg/L	0.1
9	Zinc as Zn	mg/L	0.05
10	Trivalent Chromium	mg/L	0.05
11	Sulphide	mg/L	0.05
12	Ammonical Nitrogen	mg/L	2
13	BOD (3 days at 27 0C)	mg/L	1
14	COD	mg/L	2
15	Chloride (as $Cl)^-$	mg/L	1
16	Sulphate (as SO_4)	mg/L	1
17	Total Dissolved Solids	mg/L	4
18	Total Residual Chlorine	mg/L	0.1
19	Copper as Cu	mg/L	0.05
20	Bio Assay test (%)	%	--



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For,

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Ports and Logistics

M/S. MPSEZ Utilities Ltd. (MUL)

Survey No. 141, Village - Mundra, APSEZ, Tal: Mundra, Dist.: Kutch – 370 421

Monitoring Period: October – 2024 to March - 2025

Submitted By

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Environment and Research Labs Pvt. Ltd.

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RESULTS OF CETP INLET WATER

SR.NO.	TEST PARAMETERS	UNIT	CETP INLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25		
			05-10-2024	08-11-2024	25-12-2024	04-01-2025	20-02-2025	21-03-2025		
1.	pH @ 27 ° C	--	7.69	8.34	7.74	7.77	7.48	7.42	6.5 to 8.5	IS 3025(Part 11):2022
2.	Temperature	^{0}C	30	30	29.5	29	30	30.5	--	IS 3025(Part 9):2023
3.	Colour	Pt. Co. Scale	70	60	50	50	60	50	100	IS 3025(Part 4):2021
4.	Total Suspended Solids	mg/L	62	288	210	562	128	32	800	APHA 24th Ed.2023,2540 –D
5.	Oil & Grease	mg/L	BDL(MDL:2.0)	3	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	20	IS 3025(Part 39):2021
6.	Phenolic Compound	mg/L	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	2	IS 3025(Part 43):2022
7.	Fluoride	mg/L	1.72	1.2	1.8	1.48	1.62	1.44	2	APHA 24th Ed.2023,4500 F, D
8.	Iron as Fe	mg/L	0.132	0.165	0.144	0.125	0.118	0.125	3	IS 3025(Part 53):2003,
9.	Zinc as Zn	mg/L	0.084	0.102	0.094	0.086	0.124	0.135	15	IS 3025(Part 49):1994
10.	Trivalent Chromium	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	3	By Calculation
11.	Sulphide	mg/L	0.54	1.3	1.2	0.52	0.61	0.52	2	APHA 24th Ed.2023,4500 S-2 F

Continue…

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SR.NO.	TEST PARAMETERS	UNIT	CETP INLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25		
			05-10-2024	08-11-2024	25-12-2024	04-01-2025	20-02-2025	21-03-2025		
12.	Ammonical Nitrogen	mg/L	38	40.2	32.8	24.2	28.4	20.8	50	IS 3025 (Part 34):1988,
13.	BOD (3 days at 27 ^{0}C)	mg/L	58	114	72	136	104	75	1000	IS 3025 (Part 44):2023
14.	COD	mg/L	194	382.3	240.4	452.5	344.6	250.4	2000	IS 3025 (Part 58):2023
15.	Chloride (as Cl) $^-$	mg/L	874.1	880.6	940.4	984.2	956.2	976.8	1000	IS 3025 (Part 32):1988
16.	Sulphate (as SO_4)	mg/L	120.6	79.2	66.2	158.3	142	130	1000	IS 3025 (Part 24):2022
17.	Total Dissolved Solids	mg/L	1910	2056	2010	2040	1990	1984	2100	APHA 24th Ed.2023,2540- C
18.	Total Residual Chlorine	mg/L	0.65	0.82	0.67	0.52	0.42	0.67	2	IS 3025 (Part 26):2021
19.	Copper as Cu	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	3	IS 3025 (Part 42):1992

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RESULTS OF CETP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	CETP OUTLET						GPCB Permissible Limit CETP Outlet	TEST METHOD
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25		
			05-10-2024	08-11-2024	25-12-2024	04-01-2025	20-02-2025	21-03-2025		
1.	pH @ 27 ° C	--	7.58	7.68	7.55	7.84	7.62	7.42	6.0 – 9.0	IS 3025(Part 11):2022
2.	Temperature	^{0}C	30	30	29	29	30	30.5	Shall not exceed more than 5 ^{0}C above received water temperatur e	IS 3025(Part 9):2023
3.	Colour	Pt. Co. Scale	40	60	50	50	50	50	100	IS 3025(Part 4):2021
4.	Total Suspended Solids	mg/L	12	18	24	16	22	26	100	APHA 24th Ed.2023,2540 –D
5.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	10	IS 3025(Part 39):2021
6.	Phenolic Compound	mg/L	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	1	IS 3025(Part 43):2022
7.	Fluoride	mg/L	1.38	0.8	1.5	1.29	1.03	1.11	2	APHA 24th Ed.2023,4500 F, D
8.	Iron as Fe	mg/L	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	3	IS 3025(Part 53):2003,
9.	Zinc as Zn	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	15	IS 3025(Part 49):1994
10.	Trivalent Chromium	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	2	By Calculation

Continue…

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SR.NO.	TEST PARAMETERS	UNIT	CETP OUTLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25		
			05-10-2024	08-11-2024	25-12-2024	04-01-2025	20-02-2025	21-03-2025		
11.	Sulphide	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	**2**	APHA 24th Ed.2023,4500 S-2 F
12.	Ammonical Nitrogen	mg/L	19.6	3.4	9.8	14.5	12.2	8.9	**50**	IS 3025(Part 34):1988,
13.	BOD (3 days at 27 ^{0}C)	mg/L	32	17	20	13	15	17	**100**	IS 3025(Part 44):2023
14.	COD	mg/L	106.6	56.2	66.8	44.4	64.1	58.2	**250**	IS 3025(Part 58):2023
15.	Chloride (as Cl)$^-$	mg/L	859.8	910	980.4	970.8	880.4	912.4	**1000**	IS 3025(Part 32):1988
16.	Sulphate (as SO_4)	mg/L	118.2	149.3	132	182.6	154.2	130.6	**1000**	IS 3025(Part 24):2022
17.	Total Dissolved Solids	mg/L	1876	2060	2094	2050	2010	2018	**2100**	APHA 24th Ed.2023,2540- C
18.	Total Residual Chlorine	mg/L	0.81	0.88	0.72	0.56	0.45	0.56	**1**	IS 3025(Part 26):2021
19.	Copper as Cu	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	**3**	IS 3025(Part 42):1992
20.	Bio Assay test (%)	%	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	**90 % survival of fish after 96 hrs. in 100% effluent**	IS:6582-1971

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Results of Ambient Air Quality Monitoring

Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
1.	03-10-2024	57.13	22.37	13.58	16.25	NOT DETECTED	5.49	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED
2.	07-10-2024	60.27	24.84	14.26	17.53	--	--	--	--	--	--	--	--
3.	10-10-2024	58.73	23.15	13.47	16.68	--	--	--	--	--	--	--	--
4.	14-10-2024	59.91	24.18	14.13	17.83	--	--	--	--	--	--	--	--
5.	17-10-2024	61.37	25.68	14.69	17.61	--	--	--	--	--	--	--	--
6.	21-10-2024	63.48	26.79	15.42	19.13	--	--	--	--	--	--	--	--
7.	24-10-2024	60.28	24.25	14.31	17.85	--	--	--	--	--	--	--	--
8.	28-10-2024	63.27	27.11	15.73	18.59	--	--	--	--	--	--	--	--
9.	31-10-2024	61.52	25.16	14.49	17.18	--	--	--	--	--	--	--	--
10.	04-11-2024	64.28	23.84	13.89	16.55	--	--	--	--	--	--	--	--
11.	07-11-2024	66.18	25.13	14.84	17.49	--	--	--	--	--	--	--	--
12.	11-11-2024	65.73	24.58	14.37	18.11	--	--	--	--	--	--	--	--
13.	14-11-2024	67.36	26.25	15.51	19.24	--	--	--	--	--	--	--	--
14.	18-11-2024	70.41	28.11	16.37	20.05	--	--	--	--	--	--	--	--
15.	21-11-2024	68.64	26.82	15.88	18.71	--	--	--	--	--	--	--	--

Continue…

Plot No.51, Vibrant Business Park,
NH No.48, GIDC, Vapi-396195
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Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
16.	25-11-2024	64.38	25.41	14.32	17.53	--	--	--	--	--	--	--	--
17.	28-11-2024	66.73	26.38	15.76	18.39	--	--	--	--	--	--	--	--
18.	02-12-2024	67.39	24.82	14.26	17.73	--	--	--	--	--	--	--	--
19.	05-12-2024	70.36	25.63	15.92	18.35	--	--	--	--	--	--	--	--
20.	09-12-2024	73.48	25.98	16.34	20.14	--	--	--	--	--	--	--	--
21.	12-12-2024	69.63	24.15	15.37	18.46	--	--	--	--	--	--	--	--
22.	16-12-2024	71.92	26.41	16.76	19.83	--	--	--	--	--	--	--	--
23.	19-12-2024	65.39	23.93	14.27	17.53	--	--	--	--	--	--	--	--
24.	23-12-2024	68.24	24.21	15.47	18.15	--	--	--	--	--	--	--	--
25.	26-12-2024	66.48	23.86	15.03	18.46	--	--	--	--	--	--	--	--
26.	30-12-2024	65.92	23.11	14.79	17.54	--	--	--	--	--	--	--	--
27.	02-01-2025	70.31	27.63	17.46	21.85	NOT DETECTED	5.21	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED
28.	06-01-2025	67.58	24.94	15.49	18.36	--	--	--	--	--	--	--	--
29.	09-01-2025	73.28	28.47	17.63	20.58	--	--	--	--	--	--	--	--
30.	13-01-2025	70.37	26.58	15.35	18.26	--	--	--	--	--	--	--	--
31.	16-01-2025	72.49	27.97	16.72	20.56	--	--	--	--	--	--	--	--

Continue…

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Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
32.	20-01-2025	76.48	29.14	18.1	22.21	--	--	--	--	--	--	--	--
33.	23-01-2025	73.29	26.83	17.55	20.91	--	--	--	--	--	--	--	--
34.	27-01-2025	67.84	25.47	15.81	18.67	--	--	--	--	--	--	--	--
35.	30-01-2025	71.35	27.65	16.24	20.47	--	--	--	--	--	--	--	--
36.	03-02-2025	65.84	23.36	15.27	18.19	--	--	--	--	--	--	--	--
37.	06-02-2025	68.13	24.81	16.37	19.15	--	--	--	--	--	--	--	--
38.	10-02-2025	74.15	25.63	18.1	21.69	--	--	--	--	--	--	--	--
39.	13-02-2025	72.38	25.95	17.63	20.42	--	--	--	--	--	--	--	--
40.	17-02-2025	68.58	23.21	15.9	18.83	--	--	--	--	--	--	--	--
41.	20-02-2025	71.42	25.59	16.28	19.46	--	--	--	--	--	--	--	--
42.	24-02-2025	73.91	26.73	18.13	21.36	--	--	--	--	--	--	--	--
43.	27-02-2025	68.66	24.73	16.25	19.77	--	--	--	--	--	--	--	--
44.	03-03-2024	70.62	26.14	16.52	20.13	--	--	--	--	--	--	--	--
45.	06-03-2024	73.47	27.58	17.13	21.63	--	--	--	--	--	--	--	--
46.	10-03-2024	67.25	24.84	15.49	19.95	--	--	--	--	--	--	--	--
47.	13-03-2024	70.74	25.92	16.31	20.52	--	--	--	--	--	--	--	--

Continue…

Name of Location		WTP- Nr. CETP											
Sr. No.	Date of Monitoring	Parameter with Results											
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³
48.	17-03-2024	72.93	26.47	16.88	20.37	--	--	--	--	--	--	--	--
49.	20-03-2024	75.43	28.64	17.57	22.36	--	--	--	--	--	--	--	--
50.	24-03-2024	71.64	25.91	15.82	19.28	--	--	--	--	--	--	--	--
51.	27-03-2024	73.29	26.68	16.07	20.36	--	--	--	--	--	--	--	--
52.	31-03-2024	69.86	25.63	14.94	18.69	--	--	--	--	--	--	--	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0	400	100	1	20	6	5	1
Test Method		IS - 5182, Part- 23	UERL/AIR/SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	UERL/AIR/SOP/05	IS – 5182, Part – 9	IS – 5182, Part – 22	IS – 5182, Part – 22	IS – 5182, Part – 22	IS – 5182, Part – 11	IS – 5182, Part – 12

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Results of Ambient Air Quality Monitoring

Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
1.	03-10-2024	68.61	23.79	14.84	18.77	NOT DETECTED	<5.0	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	--
2.	07-10-2024	71.48	24.52	15.19	20.36	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
3.	10-10-2024	73.49	25.91	15.68	20.53	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
4.	14-10-2024	75.21	26.36	16.31	21.26	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
5.	17-10-2024	72.58	25.16	15.53	19.62	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
6.	21-10-2024	76.58	27.63	17.26	21.78	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
7.	24-10-2024	78.53	28.46	17.86	22.53	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
8.	28-10-2024	75.42	26.85	17.24	21.46	0.10	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
9.	31-10-2024	72.91	25.73	16.31	20.57	0.10	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
10.	04-11-2024	74.63	27.25	16.16	21.42	0.10	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
11.	07-11-2024	71.39	25.47	15.73	20.11	NOT DETECTED	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

Continue…

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Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
12.	11-11-2024	75.63	27.84	16.94	20.85	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
13.	14-11-2024	78.46	28.81	17.47	21.64	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
14.	18-11-2024	76.13	27.52	16.83	20.83	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
15.	21-11-2024	80.84	29.59	18.28	22.75	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
16.	25-11-2024	82.47	30.63	18.71	21.93	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
17.	28-11-2024	77.53	28.34	17.46	21.53	0.10	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
18.	02-12-2024	80.17	30.52	18.47	22.14	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
19.	05-12-2024	78.64	28.58	17.42	21.91	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
20.	09-12-2024	82.37	31.59	19.68	23.75	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
21.	12-12-2024	79.83	30.94	18.13	22.65	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
22.	16-12-2024	84.14	33.57	20.68	24.82	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
23.	19-12-2024	77.62	31.28	19.13	23.74	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

Continue…

Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
24.	23-12-2024	75.48	29.31	18.79	21.55	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
25.	26-12-2024	82.37	32.79	20.26	24.13	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
26.	30-12-2024	79.65	30.31	18.27	22.31	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
27.	02-01-2025	76.59	31.24	19.73	23.46	0.12	<5.0	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	NOT DETECTED	--
28.	06-01-2025	80.25	34.73	21.21	25.35	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
29.	09-01-2025	84.38	35.06	22.35	26.79	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
30.	13-01-2025	77.41	31.63	20.13	25.37	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
31.	16-01-2025	79.28	32.81	22.19	26.24	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
32.	20-01-2025	73.48	28.97	18.81	22.53	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
33.	23-01-2025	76.29	30.51	19.36	23.44	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
34.	27-01-2025	79.74	32.32	21.13	25.92	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
35.	30-01-2025	75.41	29.85	18.93	22.67	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

Continue…

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Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
36.	03-02-2025	82.36	30.61	20.32	24.86	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
37.	06-02-2025	77.56	28.63	19.85	24.11	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
38.	10-02-2025	80.18	31.63	20.13	25.32	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
39.	13-02-2025	75.48	27.13	17.98	22.1	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
40.	17-02-2025	78.64	28.95	18.72	23.54	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
41.	20-02-2025	81.48	30.83	20.47	24.71	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
42.	24-02-2025	84.46	32.64	21.89	25.54	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
43.	27-02-2025	80.91	30.52	20.41	23.97	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
44.	03-03-2024	78.36	29.69	20.12	25.22	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
45.	06-03-2024	75.48	28.54	19.83	24.91	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
46.	10-03-2024	80.13	30.26	21.83	25.36	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
47.	13-03-2024	83.47	33.83	22.18	26.73	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED

Continue…

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MoEF&CC Recog. Environmental Laboratory under The EPA, 1986 (02.04.2025 to 29.03.2028) | NABL (ISO/IEC 17025: 2017) Accredited Testing Laboratory (TC-15345) (22.01.2025 to 22.09.2026) | QCI-NABET Accredited EIA & GW Consultant Organisation | GPCB Recognized Environmental Auditor (Sch-II) | ISO 9001: 2015 Certified Company | ISO 45001: 2018 Certified OHS Management System

Name of Location		AIR STRIP												
Sr. No.	Date of Monitoring	Parameter with Results												
		PM_{10} µg/m³	$PM_{2.5}$ µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³	NH3 µg/m³	Ozone µg/m³	Pb µg/m³	Ni ng/m³	As ng/m³	Benzene µg/m³	B(a)P ng/m³	HC
48.	17-03-2024	78.47	31.46	19.61	23.46	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
49.	20-03-2024	80.82	33.16	20.47	24.15	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
50.	24-03-2024	75.94	29.46	18.99	22.74	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
51.	27-03-2024	77.83	30.43	18.75	23.1	0.11	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
52.	31-03-2024	81.13	32.41	21.46	25.19	0.12	--	--	--	--	--	NOT DETECTED	--	NOT DETECTED
Permissible Value as per NAAQMS		**100.0**	**60.0**	**80.0**	**80.0**	**2.0**	**400**	**100**	**1**	**20**	**6**	**5**	**1**	**---**
Test Method		**IS - 5182, Part-23**	**UERL/AIR/SOP/11**	**IS - 5182, Part - 2**	**IS - 5182, Part - 6**	**IS - 5182, Part - 10**	**UERL/AIR/SOP/05**	**IS – 5182, Part – 9**	**IS – 5182, Part – 22**	**IS – 5182, Part – 22**	**IS – 5182, Part – 22**	**IS – 5182, Part – 11**	**IS – 5182, Part – 12**	**Gas analyzer**

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Results of Noise Level Monitoring

Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		01-10-2024	09-11-2024	04-12-2024	04-01-2025	04-02-2025	01-03-2025
1	06:00 to 07:00	59.7	60.3	61.5	60.3	58.7	57.8
2	07:00 to 08:00	61.3	62.4	64.4	63.5	60.2	59.4
3	08:00 to 09:00	64.5	60.5	63.2	66.5	63.2	60.2
4	09:00 to 10:00	66.7	67.4	64.8	65.8	66.4	63.4
5	10:00 to 11:00	68.6	65.3	66.3	62.4	65.8	66.5
6	11:00 to 12:00	65.2	63.9	64.7	64.9	63.4	66.8
7	12:00 to 13:00	67.1	65.8	67.6	66.7	65.1	64.2
8	13:00 to 14:00	66.1	65.7	66.3	65.3	64.3	65.7
9	14:00 to 15:00	65.7	67.5	64.3	61.4	65.7	66.3
10	15:00 to 16:00	67.3	66.3	65.1	64.5	66.3	64.5
11	16:00 to 17:00	64.5	63.2	64.4	63.2	65.9	66.8
12	17:00 to 18:00	62.8	64.9	67.3	65.7	63.1	61.3
13	18:00 to 19:00	65.8	64.3	65.4	64.8	64.5	63.4
14	19:00 to 20:00	63.6	65.4	64.7	65.1	61.2	62.5
15	20:00 to 21:00	64.2	65.1	64.9	63.8	64.3	63.9
16	21:00 to 22:00	64.1	63.4	63.1	61.2	60.8	59.7
Day Time		<75 dB (A)					

Continue...

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Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		01-10-2024	09-11-2024	04-12-2024	04-01-2025	04-02-2025	01-03-2025
1	22:00 to 23:00	59.7	60.1	58.9	59.1	60.3	60.1
2	23:00 to 24:00	61.3	60.5	59.7	60.3	63.2	62.4
3	24:00 to 01:00	63.6	62.3	60.3	59.4	62.7	62.3
4	01:00 to 02:00	65.1	61.8	61.3	63.2	64.8	63.7
5	02:00 to 03:00	63.9	62.5	60.4	64.5	64.1	64.1
6	03:00 to 04:00	62.3	64.3	62.5	63.2	61.9	62.6
7	04:00 to 05:00	61.8	60.8	61.3	62.6	63.4	63.4
8	05:00 to 06:00	61.1	60.7	61.3	60.8	61.2	60.1
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981

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Results of Noise Level Monitoring

Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		11-10-2024	19-11-2024	13-12-2024	15-01-2025	14-02-2025	11-03-2025
1	06:00 to 07:00	62.8	63.5	63.2	64.2	63.3	61.8
2	07:00 to 08:00	61.5	64.3	63.8	64.5	65.7	63.5
3	08:00 to 09:00	63.3	68.4	66.5	62.8	64.5	66.8
4	09:00 to 10:00	64.7	68.2	66.3	63.5	65.1	66.3
5	10:00 to 11:00	63.8	67.5	67.4	65.8	66.3	65.6
6	11:00 to 12:00	63.4	64.8	66.3	67.1	67.6	67.2
7	12:00 to 13:00	65.3	66.9	65.4	66.5	65.4	66.8
8	13:00 to 14:00	66.5	65.3	63.9	64.7	64.1	63.5
9	14:00 to 15:00	63.7	64.7	65.4	63.7	64.5	65.8
10	15:00 to 16:00	64.7	65.2	65.8	65.8	64.2	63.2
11	16:00 to 17:00	65.1	67.4	67.1	64.3	65.3	64.7
12	17:00 to 18:00	63.2	68.8	66.4	64.9	63.1	65.4
13	18:00 to 19:00	62.4	64.3	65.9	66.1	64.7	63.9
14	19:00 to 20:00	60.6	63.7	62.3	64.3	65.8	65.2
15	20:00 to 21:00	59.6	65.4	64.6	63.8	62.3	63.5
16	21:00 to 22:00	61.3	62.3	63.8	62.1	61.9	61.6
Day Time		<75 dB (A)					

Continue…

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Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		11-10-2024	19-11-2024	13-12-2024	15-01-2025	14-02-2025	11-03-2025
1	22:00 to 23:00	60.2	59.6	62.5	61.7	62.3	62.6
2	23:00 to 24:00	62.3	61.9	63.4	63.2	64.3	63.5
3	24:00 to 01:00	63.8	62.7	61.5	61.8	64.8	64.3
4	01:00 to 02:00	63.5	64.1	63.4	63.4	62.6	63.7
5	02:00 to 03:00	64.1	62.4	64.8	64.2	63.5	64.1
6	03:00 to 04:00	64.3	62.7	63.2	62.7	63.9	62.4
7	04:00 to 05:00	63.8	63.1	61.2	60.4	62.4	62.7
8	05:00 to 06:00	61.6	61.6	60.5	62.6	61.6	61.2
Day Time		<70 dB (A)					

Test Method	IS: 9989 : 1981

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Results of Stack Monitoring

Sr. No.	Parameter	Unit	Mar-2025 D.G.Set No. S-1 (380 KVA) 10-03-2025	GPCB LIMIT	Method of Test
1	Particulate Matter	mg/Nm^3	23.14	**150**	**IS 11255 (Part - 1)**
2	Sulphur Dioxide as SO_2	ppm	7	**100**	**IS 11255 (Part - 2)**
3	Oxides of Nitrogen as NO_X	ppm	27.93	**50**	**IS 11255 (Part - 7)**
4	Carbon Monoxide	mg/Nm3	4.5	--	**UERL/AIR/SOP/18**
5	Non Methyl Hydro Carbon	ppm	Not Detected	--	**UERL/AIR/SOP/27**

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RESULTS OF BOREHOLE WATER SAMPLE

Sr. No	Parameters	Method	Unit	05-03-2025
				Nr. CETP
1	pH @ 25 ° C	IS 3025(Part 11)1983	--	8.41
2	Salinity	APHA 23rd Ed.,2017,2520 B	ppt	2
3	Oil & Grease	IS 3025(Part39)1991, Amd. 2	mg/L	BDL(MDL:2.0)
4	Hydrocarbon	GC/GCMS	mg/L	Not Detected
5	Lead as Pb	IS 3025 (PART 47) 1994	mg/L	BDL(MDL:0.01)
6	Arsenic as As	APHA 23rd Ed.,2017,3114-C	mg/L	BDL(MDL:0.01)
7	Nickel as Ni	IS 3025 (PART 54) 2003	mg/L	0.102
8	Total Chromium as Cr	IS 3025 (PART 52) 2003	mg/L	BDL(MDL:0.05)
9	Cadmium as Cd	IS 3025(PART 41) 1992	mg/L	0.036
10	Mercury as Hg	APHA 23rd Ed.,2017, 3112-B	mg/L	BDL(MDL:0.001)
11	Zinc as Zn	IS 3025(PART 49) 1994	mg/L	BDL(MDL:0.05)
12	Copper as Cu	IS 3025 (PART 42) 1992	mg/L	0.087
13	Iron as Fe	IS 3025(PART 53) 2003	mg/L	0.188
14	Insecticides/Pesticides	USEPA 8081 B	µg/L	Absent
15	Depth of Water Level from Ground Level	--	meter	2.1

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RESULTS OF SOIL SAMPLE

SR. NO.	TEST PARAMETERS	UNIT	05-03-2025
			Near CETP
1	pH	--	8.86
2	Nitrogen as N	%	0.55
3	Phosphorus as P	mg/kg	4984.4
4	Potassium as K	mg/kg	174.3
5	Baron as B	mg/kg	2.98
6	Calcium as Ca	mg/kg	440.6
7	Magnesium as Mg	mg/kg	110.5
8	Iron as Fe	%	1.18
9	Moisture	%	1.46
10	Organic Matter	%	1.23
11	Cation exchange capacity (CEC)	meq/100gm	10.2
12	TVC	CFU/gm	2.2×10^6
13	Cadmium as Cd	mg/kg	BDL(MDL:1.0)
14	Thorium as Th	mg/kg	BDL(MDL:1.0)
15	Antimony as Sb	mg/kg	BDL(MDL:1.0)
16	Arsenic as As	mg/kg	BDL(MDL:1.0)

Continue…

17	Lead as Pb	mg/kg	7.25
18	Chromium as Cr	mg/kg	3.92
19	Cobalt as Co	mg/kg	8.66
20	Copper as Cu	mg/kg	15.2
21	Nickel as Ni	mg/kg	13.4
22	Manganese and Mn	mg/kg	174.2
23	Vanadium as V	mg/kg	7.11

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Minimum Detection Limit

Ambient Air Quality Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m3	5 µg/m3
2	Particulate Matter (PM2.5)	µg/m3	5 µg/m3
3	Sulphur Dioxide (SO2)	µg/m3	4 µg/m3
4	Nitrogen Dioxide (NO2)	µg/m3	5 µg/m3
5	Carbon Monoxide (CO)	mg/m3	0.01 mg/m3
6	Ammonia (NH3)	µg/m3	5 µg/m3
7	Ozone (O3)	µg/m3	5 µg/m3
8	Lead (Pb)	µg/m3	0.5 µg/m3
9	Nickle (Ni)	ng/m3	1 ng/m3
10	Arsenic (As)	ng/m3	1 ng/m3
11	Benzene	µg/m3	1µg/m3
12	Benzo(o)Pyrene	ng/m3	0.1 ng/m3
13	Hydro Carbon	µg/m3	1 µg/m3

Stack Emission Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	SuspeNOT DETECTEDed particulate matter	mg/Nm3	2 mg/Nm3
2	Sulphur Dioxide SOX	mg/Nm3	4 mg/Nm3
3	Oxides of Nitrogen NOX	mg/Nm3	5 mg/Nm3

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CETP water			
Sr. No.	**Test Parameter**	**Unit**	**MDL**
1	pH @ 27 ° C	--	2
2	Temperature	0C	5
3	Colour	Pt. Co. Scale	5
4	Total SuspeNOT DETECTEDed Solids	mg/L	4
5	Oil & Grease	mg/L	4
6	Phenolic CompouNOT DETECTED	mg/L	0.1
7	Fluoride	mg/L	0.2
8	Iron as Fe	mg/L	0.1
9	Zinc as Zn	mg/L	0.05
10	Trivalent Chromium	mg/L	0.05
11	Sulphide	mg/L	0.05
12	Ammonical Nitrogen	mg/L	5
13	BOD (3 days at 27 0C)	mg/L	1
14	COD	mg/L	2
15	Chloride (as $Cl)^-$	mg/L	1
16	Sulphate (as SO_4)	mg/L	1
17	Total Dissolved Solids	mg/L	4
18	Total Residual Chlorine	mg/L	0.1
19	Copper as Cu	mg/L	0.05
20	Bio Assay test (%)	%	--

ANNEXURE – 3

Waste Disposal Details, APSEZ, Mundra

Sr. No.	Waste Description	Disposal Method	Unit	Quantity 2023-24	Quantity 2024-25
Non-Hazardous:					
1.	Dry Waste (Recyclable waste-Metal, Wood, paper, plastic etc.)	Recycle (send to reg. recycler)/ Reuse (Used by Org.)	MT	3312.78	4274.89
2.	RDF (Non-Recyclable)	Co-processing at cement plant	MT	451.28	337.3
3.	Organic Waste (included food waste)	Reprocess & Recovery Manure/biogas	MT	959.35	1101.12
4.	E-Waste	Recycle (send to reg. recycler)	MT	44.83	28.08
Hazardous:					
1.	CETP-sludge	Landfilling	MT	26.78	32.17

ANNEXURE – 4

Cost of Environmental Protection Measures

Cost of Environmental Protection Measures of APSEZ, Mundra
F.Y. 2024 - 25

Sr. No.	Activity	Cost incurred (INR in Lacs)		Budgeted Cost (INR in Lacs)
		2023 – 24	2024 – 25	2024 – 25
1.	Environmental Study / Audit and Consultancy	22.67	40.46	27
2.	Legal & Statutory Expenses	8.60	17.37	13
3.	Environmental Monitoring Services	13.37	17.27	19.20
4.	Hazardous / Non-Hazardous Waste Management & Disposal	130.11	122.46	172.40
5.	Environment Days Celebration and Advertisement / Business development	3.42	1.85	4.00
6.	Treatment and Disposal of Bio-Medical Waste	2.28	2.39	2.28
7.	Mangrove Plantation, Monitoring & Conservation	15	0	0
8.	Other Horticulture Expenses	904	570	831
9.	O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant)	186.94	164.31	195.41
10.	Expenditure of Environment Dept. (Apart from above head)	80.39	93.40	75.92
	Total	**1366.78**	**1029.51**	**1340.21**