

Ref No. APSEZL/EnvCell/2025-26/066

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 **M/s Adani Ports and Special Economic Zone Limited [Shantivan (Residential) Colony]**

- Ref:** 1. Consent Order No. AWH-113213, date of issue 10.06.2021 Valid up to: 31.10.2021
2. Consent Amendment Order No. AWH-113213, date of issue 31.01.2022 Valid up to: 31.10.2025

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 **M/s Adani Ports and Special Economic Zone Limited [Shantivan (Residential) Colony], Village: Nana Kapaya, Taluka: Mundra, District: Kutch - 370421** for the financial year ending 31st March 2025.

Thank you,

Yours faithfully,

For **Adani Ports and Special Economic Zone Limited [Shantivan (Residential) Colony]**

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11/09/25

Authorized Signatory

Encl: As above.

Copy to: The Regional Officer, Gujarat Pollution Control Board (East-Kutch), Gandhidham.

Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

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 : Red-Small
Primary (STC Code) NA
Secondary (STC Code) NA
- (iii) Production Capacity : Sewage Treatment Plants: 350 + 250 KLD
RO Plants: 4.0 + 2.0 KLPH
- (iv) Year of Establishment : 2004
- (v) Date of last Environment
Statement submitted : 02/09/2024

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited

(PCB ID: 17738)

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption m³/Day	Average
Process	Nil
Cooling	Nil
Domestic (House Hold + Gardening / Horticulture)	649.27 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 sewage from STPs* (KL)	123653	154961
RO treated water* (KL)	1472	2351

Unit does not go under any manufacturing process. The unit involves two nos. of Sewage Treatment Plants having capacity 350 KLD & 250 KLD for treatment of sewage generated from APSEZ residential colony, OCCL residential colony and Nana kapaya village. Unit has also installed two nos. of RO plant having capacity 10.0 KLPH for drinking purposes within school. Treated water from STPs is being utilized in gardening/ horticulture activity within residential colony premises.

Details of Sewage water 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)
NIL**	Not Applicable	Nil	Nil

**** Unit does not go under any manufacturing process. Hence there is no any raw material consumption.**

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited**(PCB ID: 17738)****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
	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(a) Waste Water (domestic sewage)	pH	--	pH	7.41	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. The SVC STP 154961 KL wastewater has treated during April 2024 – March 2025. 2. Analysis reports of treated water are enclosed as Annexure – 2.
	Total Suspended Solids	9.55	Total Suspended Solids (mg/l)	22.50	
	BOD (5 Days @ 20 °C)	7.34	BOD (5 Days @ 20 °C) (mg/l)	17.30	
	Residual Chlorine	0.31	Residual Chlorine (mg/l)	0.73	
	Fecal Coliform	18.44	Fecal Coliform (MPN/100ml)	43.44	
(b) Air (DG Stack 750 and 250 KVA)	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. Two DG sets having capacities 750 KVA & 250 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)	0.0378	Particulate Matter (mg/Nm3)	17.82	
	Sulphur Dioxide (SO2)	0.0525	Sulphur Dioxide (PPM)	9.23	
	Nitrogen Oxide (NOx)	0.0810	Nitrogen Oxide (NOx) (PPM)	20.14	

Unit does not go under any manufacturing process. The unit involves two nos. of Sewage Treatment Plants having capacity 350 KLD & 250 KLD for treatment of sewage generated from residential colony. Unit has also installed two nos. of RO plants having capacity of 10.0 KLPH for drinking purpose in school premises.

Treated water from STPs is utilized in gardening / horticulture activity within residential colony premises. There was an average 424.55 KL/Day treated water discharge from STPs during the year 2024-25.

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited

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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	Nil	Nil
(b) From Pollution Control facilities	Nil	Nil

Note: Please refer **Annexure – 3** -waste generated / disposed from entire Adani Ports & SEZ

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	-	-
(C-1) Quantity recycled or reutilized within the unit	Details is Attached as Refer Annexure – 3	Details is Attached as Refer Annexure – 3
(C-2) Sold		
(C-3) Disposed		

Note: Above Quantity shown is waste generated / disposed from entire Adani Ports & SEZ Limited.

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.

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited

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- 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, Bhadreswar.
 - APSEZ, Mundra organized the beach cleaning activity on 2nd April 2024 at Mandavi Beach on 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 shopkeepers 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

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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.

- Domestic sewage generated from township & Hospital is treated into 2.5 MLD capacity STP having latest MBR technology.
- Wastewater generated from the hospital is being pretreated with hypochlorite solution and further sent to the further treatment to 2.5 MLD capacity STP at Samudra Township.
- Treated sewage is being utilized by the horticulture department for plantation and gardening of AMSIPL project and Mundra SEZ greenbelt development to conserve freshwater consumption.

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 in SEZ in Mundra which generates nearly 8.54 million units in FY 2024-25 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.
- 100% Treated Water utilization for gardening & horticulture purpose.
-

Following safeguard measures are taken for abatement of dust and noise emissions:

- 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.

- 100% utilization of treated water from SVC STP for gardening and horticulture activity to conserve freshwater consumption.
- APSEZ has formed a dedicated Horticulture department & developing green belt within port premises.
- In Shantivan Colony greenbelt area is approx. 72.29 hectares and having more than 42882 saplings.

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- In entire APSEZ more than 457.99 ha. area is developed as greenbelt with samplings of more than 9.06 Lacs.
- Receiving sewage from Nana Kapaya village & OCCL Township.

PART – I

Any other particulars for improving the quality of the 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**

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ANNEXURE – 1

Details of Water use and sewage (Apr-24 to Mar-25)

Month	Production		Water Consumption		
	Treated Sewage, KL	RO Water, KL	Industrial, KL (Cat. I)	Domestic, KL (Included horticulture used water)	Total water consumption
Apr-24	11445	246	0.00	20263	20263
May-24	11855	212	0.00	20457	20457
Jun-24	14532	209	0.00	22674	22674
Jul-24	14074	235	0.00	22309	22309
Aug-24	17505	209	0.00	21646	21646
Sep-24	12633	222	0.00	18640	18640
Oct-24	13196	140	0.00	19998	19998
Nov-24	12615	145	0.00	18293	18293
Dec-24	13312	180	0.00	18986	18986
Jan-25	12014	193	0.00	17738	17738
Feb-25	10227	164	0.00	16650	16650
Mar-25	11553	196	0.00	19330	19330
Total	154961	2351	0	236984	236984
Per Month	12913.42	195.92	0	19748.67	19748.67
Per Day	424.55	6.44	0.00	649.27	649.27

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (250KLD)						GPCB Permissible Limit	TEST METHOD
			Apr-24		May-24		Jun-24			
			11-04- 2024	27-04- 2024	10-05- 2024	24-05- 2024	12-06- 2024	26-06- 2024		
1.	pH @ 25 ° C	--	7.48	7.34	7.28	7.44	7.34	7.41	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	24	26	24	22	24	24	100	APHA 24th Ed.2023,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	18	16	17.5	17	16.5	17	30	APHA 24th Ed.2023,5210- B
4.	Residual chlorine	mg/L	0.84	0.88	0.78	0.78	0.89	0.92	0.5 Min.	APHA 24th Ed.2023,4500- Cl-G
5.	Fecal Coliform	MPN Index/100ml	23	40	22	30	26	40	<1000	IS 1622: 1981

Continue...

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (250KLD)						GPCB Permissible Limit	TEST METHOD
			Jul-24		Aug-24		Sep-24			
			06-07-2024	24-07-2024	13-08-2024	24-08-2024	05-09-2024	20-09-2024		
1.	pH @ 25 ° C	--	7.31	7.22	7.44	7.32	7.76	7.49	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	24	22	18	24	30	22	100	APHA 24th Ed.2023,2540-D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	15.5	16	18	16	22	20	30	APHA 24th Ed.2023,5210-B
4.	Residual chlorine	mg/L	0.71	0.74	0.62	0.74	0.67	0.74	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
5.	Fecal Coliform	MPN Index/100ml	27	50	26	40	27	50	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (350KLD)						GPCB Permissible Limit	TEST METHOD
			Apr-24		May-24		Jun-24			
			11-04-2024	27-04-2024	10-05-2024	24-05-2024	12-06-2024	26-06-2024		
1.	pH @ 25 ° C	--	7.42	7.55	7.48	7.77	7.35	7.45	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	22	26	22	26	24	24	100	APHA 24th Ed.2023,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	15	17	16.5	15.5	17.5	18	30	APHA 24th Ed.2023,5210-B
4.	Residual chlorine	mg/L	0.78	0.84	0.74	0.81	0.88	0.84	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
5.	Fecal Coliform	MPN Index/100ml	80	60	70	50	60	40	<1000	IS 1622: 1981

Continue...

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (350KLD)						GPCB Permissible Limit	TEST METHOD
			Jul-24		Aug-24		Sep-24			
			06-07-2024	24-07-2024	13-08-2024	24-08-2024	05-09-2024	20-09-2024		
1.	pH @ 25 ° C	--	7.31	7.12	7.35	7.14	7.90	7.62	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	22	26	16	22	12	14	100	APHA 24th Ed.2023,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	14	16	15.8	18.4	22	18	30	APHA 24th Ed.2023,5210-B
4.	Residual chlorine	mg/L	0.72	0.86	0.74	0.62	0.88	0.74	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
5.	Fecal Coliform	MPN Index/100ml	70	30	90	34	80	30	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	01-04-2024	75.82	24.15	13.84	16.90	NOT DETECTED
2.	04-04-2024	79.35	25.93	14.44	18.24	--
3.	08-04-2024	82.62	26.13	13.84	17.11	--
4.	11-04-2024	80.47	25.75	15.34	18.88	--
5.	15-04-2024	76.34	23.89	14.92	18.43	--
6.	18-04-2024	78.19	24.37	13.95	16.74	--
7.	22-04-2024	75.38	26.17	15.37	18.64	--
8.	25-04-2024	72.91	23.45	13.56	16.23	--
9.	29-04-2024	76.38	25.87	14.29	17.47	--
10.	02-05-2024	77.43	23.86	12.94	15.89	--
11.	06-05-2024	74.39	22.75	13.18	16.86	--
12.	09-05-2024	76.75	24.32	13.84	17.02	--
13.	13-05-2024	78.16	25.84	14.73	17.78	--
14.	16-05-2024	80.53	27.12	15.43	18.14	--
15.	20-05-2024	76.38	25.63	14.91	17.65	--
16.	23-05-2024	73.49	23.10	12.86	15.48	--

Continue...

Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
17.	27-05-2024	75.92	24.73	13.41	16.35	--
18.	30-05-2024	78.43	26.18	15.42	18.11	--
19.	03-06-2024	79.13	24.11	14.56	17.40	--
20.	06-06-2024	76.48	23.73	13.25	16.75	--
21.	10-06-2024	74.49	21.36	12.85	15.91	--
22.	13-06-2024	78.15	22.84	14.47	17.28	--
23.	17-06-2024	73.49	21.13	13.95	16.37	--
24.	20-06-2024	70.13	20.63	12.22	15.81	--
25.	24-06-2024	37.58	14.42	8.75	12.63	--
26.	27-06-2024	40.81	16.38	9.13	13.74	--
27.	01-07-2024	41.72	15.36	8.14	11.53	NOT DETECTED
28.	04-07-2024	44.73	16.58	9.31	11.86	--
29.	08-07-2024	50.48	18.35	10.83	14.23	--
30.	11-07-2024	56.48	19.15	10.31	13.86	--
31.	15-07-2024	61.28	21.46	12.37	15.52	--
32.	18-07-2024	64.35	20.75	13.64	16.12	--
33.	22-07-2024	57.41	20.11	11.42	14.25	--

Continue...

Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
34.	25-07-2024	49.76	17.53	10.13	13.51	--
35.	29-07-2024	44.62	15.13	8.76	11.36	--
36.	01-08-2024	47.80	15.93	9.85	12.27	--
37.	05-08-2024	52.38	16.17	10.11	13.24	--
38.	08-08-2024	54.38	16.79	11.52	14.10	--
39.	12-08-2024	48.71	15.67	10.36	13.25	--
40.	15-08-2024	53.75	16.31	11.29	14.32	--
41.	19-08-2024	57.41	18.03	11.82	13.58	--
42.	22-08-2024	54.38	16.49	11.41	13.27	--
43.	26-08-2024	52.18	15.42	10.74	13.81	--
44.	29-08-2024	56.49	16.72	10.95	13.26	--
45.	02-09-2024	49.62	16.13	10.19	13.81	--
46.	05-09-2024	54.28	17.45	11.32	14.75	--
47.	09-09-2024	51.28	16.63	10.86	13.27	--
48.	12-09-2024	53.64	17.13	11.24	14.91	--
49.	16-09-2024	56.18	17.94	11.85	13.47	--
50.	19-09-2024	58.73	18.15	12.20	15.31	--

Continue...

Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
51.	23-09-2024	55.18	17.42	11.63	14.26	--
52.	26-09-2024	50.38	15.74	10.27	13.26	--
53.	30-09-2024	53.28	16.81	11.53	13.89	
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		Shantivan Colony Nr. STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		29-4-2024	30-5-2024	1-6-2024	29-7-2024	29-8-2024	30-9-2024
1	06:00 to 07:00	64.7	63.4	62.7	61.4	61.5	61.8
2	07:00 to 08:00	64.9	62.8	64.3	62.6	61.9	60.4
3	08:00 to 09:00	65.8	64.8	66.8	64.3	63.4	62.4
4	09:00 to 10:00	68.4	64.9	65.3	63.9	64.7	64.3
5	10:00 to 11:00	67.4	66.1	68.7	64.6	66.3	65.7
6	11:00 to 12:00	65.8	66.8	67.3	65.8	64.5	65.4
7	12:00 to 13:00	64.7	65.7	64.9	63.7	64.7	66.6
8	13:00 to 14:00	65.3	66.6	65.4	67.1	65.2	65.4
9	14:00 to 15:00	65.8	65.7	66.4	66.3	65.8	67.2
10	15:00 to 16:00	67.7	65.3	66.2	66.2	66.5	64.3
11	16:00 to 17:00	68.7	67.3	64.3	63.9	64.1	64.8
12	17:00 to 18:00	66.5	66.2	65.9	65.2	63.9	63.8
13	18:00 to 19:00	64.6	65.4	66.4	67.7	65.4	64.5
14	19:00 to 20:00	65.6	64.8	65.3	64.6	65.4	63.7
15	20:00 to 21:00	66.9	61.8	64.2	63.2	63.2	64.1
16	21:00 to 22:00	63.8	61.2	63.1	62.2	60.8	61.4
Day Time		<75 dB (A)					

Continue...

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GPCB Recognized Environmental
Auditor (Schedule-11)

ISO 9001 : 2015
Certified Company

ISO 45001 : 2018
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Location Name		Shantivan Colony Nr. STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		29-4-2024	30-5-2024	1-6-2024	29-7-2024	29-8-2024	30-9-2024
1	22:00 to 23:00	59.3	58.4	58.1	57.5	58.5	58.2
2	23:00 to 24:00	60.4	60.3	59.4	59.2	58.8	60.7
3	24:00 to 01:00	61.3	61.8	60.4	61.2	60.4	61.4
4	01:00 to 02:00	60.8	63.4	62.3	60.4	63.4	61.8
5	02:00 to 03:00	62.5	61.2	61.5	62.5	62.3	62.4
6	03:00 to 04:00	60.4	61.7	60.3	59.8	60.7	63.5
7	04:00 to 05:00	59.8	60.2	60.7	59.4	59.1	61.5
8	05:00 to 06:00	60.5	59.9	58.4	58.1	57.6	59.4
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981
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Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Sr. No.	Parameter	Unit	Aug - 2024		GPCB LIMIT	Method of Test
			D.G. Set-1 (750 KVA)	D.G. Set-2 (250 KVA)		
			13-08-2024	13-08-2024		
1	Particulate Matter	mg/Nm ³	18.80	17.30	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	10.20	8.80	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.49	19.13	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Minimum Detection Limit			
Ambient Air Quality Monitoring			
Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
2	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
3	Sulphur Dioxide (SO ₂)	µg/m ³	4 µg/m ³
4	Nitrogen Dioxide (NO ₂)	µg/m ³	5 µg/m ³
5	Carbon Monoxide (CO)	mg/m ³	0.01 mg/m ³
6	Ammonia (NH ₃)	µg/m ³	5 µg/m ³
7	Ozone (O ₃)	µg/m ³	5 µg/m ³
8	Lead (Pb)	µg/m ³	0.5 µg/m ³
9	Nickle (Ni)	ng/m ³	1 ng/m ³
10	Arsenic (As)	ng/m ³	1 ng/m ³
11	Benzene	µg/m ³	1µg/m ³
12	Benzo(o)Pyrene	ng/m ³	0.1 ng/m ³
14	Hydro Carbon	µg/m ³	1 µg/m ³
Stack Emission Monitoring			
Sr. No.	Test Parameter	Unit	MDL
1	Suspended particulate matter	mg/Nm ³	2 mg/Nm ³
2	Sulphur Dioxide SOX	mg/Nm ³	4 mg/Nm ³
3	Oxides of Nitrogen NOX	mg/Nm ³	5 mg/Nm ³

STP OUTLET

Sr. No.	Test Parameter	Unit	MDL
1	pH @ 25 ° C	--	2
2	Total Suspended Solids	mg/L	4
3	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	1
4	Residual chlorine	mg/L	0.1
5	Fecal Coliform	MPN Index/100ml	

BORE HOLE WATER

Sr. No.	Test Parameter	Unit	MDL
1	pH @ 25 ° C	--	5
2	Salinity	ppt	--
3	Oil & Grease	mg/L	2
4	Hydrocarbon	mg/L	0.1
5	Lead as Pb	mg/L	0.01
6	Arsenic as As	mg/L	0.01
7	Nickel as Ni	mg/L	0.02
8	Total Chromium as Cr	mg/L	0.05
9	Cadmium as Cd	mg/L	0.003
10	Mercury as Hg	mg/L	0.001
11	Zinc as Zn	mg/L	0.05

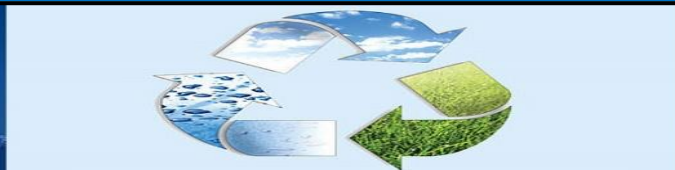
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ISO 9001 : 2015
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ISO 45001 : 2018
Certified Company

12	Copper as Cu	mg/L	0.05
13	Iron as Fe	mg/L	0.1
14	Insecticides/Pesticides	µg/L	0.1
15	Depth of Water Level from Ground Level	meter	--



“Half Yearly Environmental Monitoring Reports “

For,

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Ports and
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M/S. ADANI PORTS & SPECIAL ECONOMIC ZONE LTD.

Village – Nanakapaya, TAL. - MUNDRA, DIST. - KUTCH - 370421

Monitoring Period: October – 2024 to March - 2025

Submitted By



UniStar Environment & Research Labs Pvt. Ltd.

White House, Near GIDC Office, Char Rasta, Vapi, Gujarat, India – 396195



RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (250KLD)						GPCB Permissible Limit	TEST METHOD
			Oct-24		Nov-24		Dec-24			
			09-10-2024	23-10-2024	13-11-2024	23-11-2024	05-12-2024	25-12-2024		
1.	pH @ 25 ° C	--	7.41	7.58	7.44	7.28	7.64	7.38	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	22	24	26	24	14	28	100	APHA 24th Ed.2023,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	18	18	19	18	17	19	30	APHA 24th Ed.2023,5210- B
4.	Residual chlorine	mg/L	0.64	0.72	0.74	0.78	0.68	0.72	0.5 Min.	APHA 24th Ed.2023,4500- Cl-G
5.	Fecal Coliform	MPN Index/100ml	26	40	27	33	26	34	<1000	IS 1622: 1981

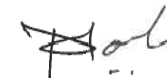
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RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (250KLD)						GPCB Permissible Limit	TEST METHOD
			Jan-25		Feb-25		Mar-25			
			07-01-2025	24-01-2025	06-02-2025	19-02-2025	05-03-2025	19-03-2025		
1.	pH @ 25 ° C	--	7.04	7.56	7.24	7.44	7.25	7.35	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	22	24	24	22	26	24	100	APHA 24th Ed.2023,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	15	18	17	18	20	17	30	APHA 24th Ed.2023,5210-B
4.	Residual chlorine	mg/L	0.62	0.67	0.68	0.72	0.64	0.68	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
5.	Fecal Coliform	MPN Index/100ml	27	33	27	34	26	30	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (350KLD)						GPCB Permissible Limit	TEST METHOD
			Oct-24		Nov-24		Dec-24			
			09-10-2024	23-10-2024	13-11-2024	23-11-2024	05-12-2024	25-12-2024		
1.	pH @ 25 ° C	--	7.27	7.61	7.38	7.32	7.44	7.21	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	16	20	22	20	24	20	100	APHA 24th Ed.2023,2540-D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	18	20	16	18	18	16	30	APHA 24th Ed.2023,5210-B
4.	Residual chlorine	mg/L	0.68	0.72	0.82	0.75	0.62	0.58	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
5.	Fecal Coliform	MPN Index/100ml	70	33	80	30	70	33	<1000	IS 1622: 1981

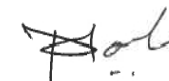
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RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SHANTIVAN COLONY STP OUTLET (350KLD)						GPCB Permissible Limit	TEST METHOD
			Jan-25		Feb-25		Mar-25			
			07-01- 2025	24-01- 2025	06-02- 2025	19-02- 2025	05-03- 2025	19-03- 2025		
1.	pH @ 25 ° C	--	7.28	7.44	7.28	7.62	7.58	7.26	--	IS 3025 (Part-11):2022
2.	Total Suspended Solids	mg/L	22	28	22	24	18	24	100	APHA 24th Ed.2023,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	16	17	15	18	15	16	30	APHA 24th Ed.2023,5210-B
4.	Residual chlorine	mg/L	0.59	0.62	0.67	0.72	0.64	0.62	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
5.	Fecal Coliform	MPN Index/100ml	80	34	70	33	60	34	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	03-10-2024	58.92	20.11	11.83	14.49	NOT DETECTED
2.	07-10-2024	61.25	20.58	12.24	15.42	--
3.	10-10-2024	64.38	22.63	13.18	16.47	--
4.	14-10-2024	60.74	21.38	11.94	14.81	--
5.	17-10-2024	63.51	21.85	12.74	15.49	--
6.	21-10-2024	67.83	22.92	13.64	16.28	--
7.	24-10-2024	70.11	24.39	14.21	17.07	--
8.	28-10-2024	69.49	23.68	13.71	16.37	--
9.	31-10-2024	64.54	23.31	13.22	16.51	--
10.	04-11-2024	63.74	22.37	13.14	16.32	--
11.	07-11-2024	65.12	23.91	13.79	16.58	--
12.	11-11-2024	68.36	25.46	14.25	17.63	--
13.	14-11-2024	71.29	26.42	15.61	18.46	--
14.	18-11-2024	67.58	25.37	14.78	17.24	--
15.	21-11-2024	65.38	24.16	14.12	16.97	--
16.	25-11-2024	69.75	25.69	15.58	18.15	--

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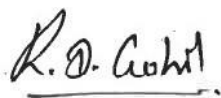
Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
17.	28-11-2024	67.51	24.47	14.93	17.35	--
18.	02-12-2024	69.63	25.17	14.79	18.13	--
19.	05-12-2024	65.48	23.95	13.24	16.87	--
20.	09-12-2024	68.53	24.89	14.10	18.32	--
21.	12-12-2024	70.39	26.76	15.42	19.53	--
22.	16-12-2024	74.17	28.21	16.11	20.02	--
23.	19-12-2024	72.35	27.29	15.37	19.76	--
24.	23-12-2024	69.13	25.47	14.29	17.64	--
25.	26-12-2024	66.95	23.85	13.59	17.15	--
26.	30-12-2024	70.26	25.93	15.11	18.69	--
27.	02-01-2025	72.14	28.07	16.31	19.28	NOT DETECTED
28.	06-01-2025	75.46	30.28	17.84	21.13	--
29.	09-01-2025	68.91	26.47	15.73	18.64	--
30.	13-01-2025	71.59	27.95	16.38	19.83	--
31.	16-01-2025	67.84	25.37	15.24	18.78	--
32.	20-01-2025	72.35	28.86	17.15	21.43	--
33.	23-01-2025	75.63	30.71	18.20	21.56	--

Continue...

Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
34.	27-01-2025	70.81	27.64	16.37	19.91	--
35.	30-01-2025	73.48	28.11	17.42	20.72	--
36.	03-02-2025	67.91	24.86	14.58	18.13	--
37.	06-02-2025	72.74	26.35	15.47	19.53	--
38.	10-02-2025	74.38	27.43	16.92	20.11	--
39.	13-02-2025	71.25	25.96	15.73	19.34	--
40.	17-02-2025	68.75	24.49	14.13	18.74	--
41.	20-02-2025	73.25	27.14	16.55	20.32	--
42.	24-02-2025	71.42	26.31	15.29	19.75	--
43.	27-02-2025	75.25	28.32	16.74	21.15	--
44.	03-03-2024	71.35	25.19	15.21	20.14	--
45.	06-03-2024	74.38	26.84	16.93	21.02	--
46.	10-03-2024	72.38	25.72	15.46	19.98	--
47.	13-03-2024	77.48	28.91	17.11	22.61	--
48.	17-03-2024	70.79	24.86	14.87	19.37	--
49.	20-03-2024	75.64	27.15	16.42	21.82	--
50.	24-03-2024	72.39	26.81	15.10	20.63	--

Continue...

Name of Location		Shantivan Colony Nr. STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
51.	27-03-2024	68.46	25.31	14.93	19.11	--
52.	31-03-2024	71.53	25.96	15.81	20.48	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

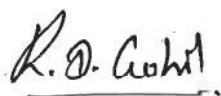
Results of Noise Level Monitoring

Location Name		Shantivan Colony Nr. STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		31-10-2024	5-11-2024	30-12-2024	30-1-2025	1-2-2025	31-3-2025
1	06:00 to 07:00	61.3	61.1	63.2	62.6	62.2	62.5
2	07:00 to 08:00	62.8	63.3	62.7	64.1	62.8	63.6
3	08:00 to 09:00	61.5	62.8	64.6	63.8	65.7	63.7
4	09:00 to 10:00	64.7	63.7	66.3	64.6	64.5	66.5
5	10:00 to 11:00	63.4	65.4	64.8	66.2	66.3	64.1
6	11:00 to 12:00	67.8	66.5	65.9	66.5	64.2	64.6
7	12:00 to 13:00	63.3	67.1	66.3	64.2	66.5	65.9
8	13:00 to 14:00	60.7	62.3	65.6	67.2	64.8	63.2
9	14:00 to 15:00	64.3	64.8	67.3	65.4	63.4	63.8
10	15:00 to 16:00	63.1	65.4	66.4	66.7	67	66.1
11	16:00 to 17:00	66.2	65.8	63.8	65.8	64.7	67.3
12	17:00 to 18:00	60.9	63.4	65.2	61.3	65.4	66.8
13	18:00 to 19:00	64.3	62.3	63.8	62.9	63.6	65.1
14	19:00 to 20:00	61.2	62.9	64.1	63.5	64.8	63.4
15	20:00 to 21:00	66.4	65.2	63.4	62.4	61.3	63.2
16	21:00 to 22:00	63.6	62.8	61.7	62.7	62.3	61.4
Day Time		<75 dB (A)					

Continue...

Location Name		Shantivan Colony Nr. STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		31-10-2024	5-11-2024	30-12-2024	30-1-2025	1-2-2025	31-3-2025
1	22:00 to 23:00	60.1	58.8	60.1	58.7	58.9	58.5
2	23:00 to 24:00	63.2	59.3	60.4	58.9	61.2	59.4
3	24:00 to 01:00	64.5	60.4	63.2	60.3	60.5	62.3
4	01:00 to 02:00	63.8	60.8	62.8	64.1	63.4	61.5
5	02:00 to 03:00	65.3	61.2	63.6	62.7	61.8	63.5
6	03:00 to 04:00	63.5	60.8	63.2	61.4	62.5	61.8
7	04:00 to 05:00	63.3	62.4	61.7	60.3	61.3	62.3
8	05:00 to 06:00	60.4	59.8	59.4	59.2	60.8	58.5
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981
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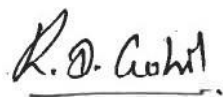
Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Sr. No.	Parameter	Unit	Mar - 2025		GPCB LIMIT	Method of Test
			D.G. Set-1 (750 KVA)	D.G. Set-2 (250 KVA)		
			12-03-2025	12-03-2025		
1	Particulate Matter	mg/Nm ³	19.96	19.50	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	10.70	9.40	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	23.46	21.47	50	IS 11255 (Part - 7)



Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Minimum Detection Limit			
Ambient Air Quality Monitoring			
Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
2	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
3	Sulphur Dioxide (SO ₂)	µg/m ³	4 µg/m ³
4	Nitrogen Dioxide (NO ₂)	µg/m ³	5 µg/m ³
5	Carbon Monoxide (CO)	mg/m ³	0.01 mg/m ³
6	Ammonia (NH ₃)	µg/m ³	5 µg/m ³
7	Ozone (O ₃)	µg/m ³	5 µg/m ³
8	Lead (Pb)	µg/m ³	0.5 µg/m ³
9	Nickle (Ni)	ng/m ³	1 ng/m ³
10	Arsenic (As)	ng/m ³	1 ng/m ³
11	Benzene	µg/m ³	1µg/m ³
12	Benzo(o)Pyrene	ng/m ³	0.1 ng/m ³
14	Hydro Carbon	µg/m ³	1 µg/m ³
Stack Emission Monitoring			
Sr. No.	Test Parameter	Unit	MDL
1	Suspended particulate matter	mg/Nm ³	2 mg/Nm ³
2	Sulphur Dioxide SOX	mg/Nm ³	4 mg/Nm ³
3	Oxides of Nitrogen NOX	mg/Nm ³	5 mg/Nm ³

STP OUTLET			
Sr. No.	Test Parameter	Unit	MDL
1	pH @ 25 ° C	--	2
2	Total Suspended Solids	mg/L	4
3	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	1
4	Residual chlorine	mg/L	0.1
5	Fecal Coliform	MPN Index/100ml	

BORE HOLE WATER			
Sr. No.	Test Parameter	Unit	MDL
1	pH @ 25 ° C	--	5
2	Salinity	ppt	--
3	Oil & Grease	mg/L	2
4	Hydrocarbon	mg/L	0.1
5	Lead as Pb	mg/L	0.01
6	Arsenic as As	mg/L	0.01
7	Nickel as Ni	mg/L	0.02
8	Total Chromium as Cr	mg/L	0.05
9	Cadmium as Cd	mg/L	0.003
10	Mercury as Hg	mg/L	0.001

BORE HOLE WATER			
Sr. No.	Test Parameter	Unit	MDL
11	Zinc as Zn	mg/L	0.05
12	Copper as Cu	mg/L	0.05
13	Iron as Fe	mg/L	0.1
14	Insecticides/Pesticides	µg/L	0.1
15	Depth of Water Level from Ground Level	meter	--

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited

(PCB ID: 17738)

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	3312.775	4274.89
2.	RDF (Non- Recyclable)	Co-processing at cement plant	MT	451.28	337.3
3.	STP Sludge	Reprocess (Manure)	MT	3.0	0
4.	Organic Waste (included food waste)	Reprocess & Recovery Manure/biogas	MT	959.35	1101.12
5.	E-Waste	Recycle (send to reg. recycler)	MT	44.83	28.08

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ANNEXURE – 4

**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