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Ports and Logistics

PCB ID: 53331

Ref No. APSEZL/EnvCell/2025-26/062 **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 Mundra LPG Terminal Pvt. Ltd. (MLTPL).**

Ref: Consent Order AWH – 134895 issue dated 12.06.2024 Valid till 27.06.2029 (**PCB ID: - 53331)**

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 Mundra LPG Terminal Pvt. Ltd. (MLTPL), Plot No. 169/P, Navinal Island, Mundra, Tal. Mundra, Dist. Kutch – 370421** for the financial year ending 31st March 2025.

Thank you,

Yours faithfully,
For **Mundra LPG Terminal Pvt. Ltd. (MLTPL)**

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 (East-Kutch), Gandhidham.**

Mundra LPG Terminal Pvt Ltd
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Mundra, Kutch 370 421
Gujarat, India
CIN: U40106GJ2015PTC084303

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www.adani.com

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

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 **Mundra LPG Terminal Pvt. Ltd. (MLTPL),** Plot No. 169/P, Navinal Island, Mundra, Tal. Mundra, Dist. Kutch – 370421 Ph No. (02838) 255000
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	:	Red-Large NA NA
(iii)	Production Capacity	:	Handling, Storage & Distribution of LPG @ 3.56 MMTPA
(iv)	Year of Establishment	:	2017
(v)	Date of last Environment Statement submitted	:	02/09/2024

PART – B

Water and Raw Material Consumption

(i) Water Consumption in m^3/day: -

Process	:	Nil
Cooling (Boiler feed/Cooling/Others)	:	135.22KLD
Domestic	:	10.80 KLD

Name of product	Process water consumption per unit of product output	
	During the current financial year 2023-2024	During the current financial year 2024-2025
Handling, Storage & Distribution of LPG	0.077 KL/MT for LPG Handling, Storage & Distribution	0.0597 KL/MT for LPG Handling, Storage & Distribution

The water is not consumed in handling, storage, distribution and manufacturing process of LPG. The water consumed for industrial purpose mainly in firefighting equipment testing, cooling tower operation the utility operation.

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(ii) Raw Material Consumption

Name of raw Materials	Name of Product	Consumption of Raw Material Per unit of Output	
		During the current financial year 2023-2024	During the current financial year 2024-2025
Propene	Handling, Storage & Distribution of LPG	0.549 MT / MT	0.607 MT / MT
Butane		0.451 MT / MT	0.4145 MT / MT
Merkepton		0.001 MT / MT	0.000013 MT / MT

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. Mass	
(a) Water	pH	-	pH	7.37	The industrial wastewater is neutralized in pH correction tank.
(b) Air	Particulate Matter (PM)	0.0011	Particulate Matter (PM) (mg/Nm^3)	28.12	No variation in prescribed standards. The parameters are well within the prescribed limit. 1. DG sets having capacities 2000 KVA is provided as a standby power source and used during power failure. Analysis reports of stack monitoring are enclosed as **Annexure – 2.**
	Sulphur Dioxide (SO_2)	0.0012	Sulphur Dioxide (SO_2) (PPM)	12.40	
	Nitrogen Oxide (NO_x)	0.0018	Nitrogen Oxide (NO_x) (PPM)	24.80	

PART – D

Hazardous Wastes
(As specified under Hazardous Wastes Management and Handling Rules 1989)

Hazardous Waste	Total Quantity (Kg)	
	During the current financial year 2023-2024	During the current financial year 2024-2025
From Process		
Used/Spent Oil	Nil*	Nil*
Discarded drum / Containers		
Oily cotton rags		
Sludge and filters contaminated with oil		
From Pollution Control facility	Not Applicable	Not Applicable

*Due to very minimum hazardous waste generation quantity considering clean operational activity the waste did not disposed during last years. Whenever sizable quantity of the hazardous waste will be accumulated it will be disposed as per HW rules and regulation.

PART – E

Solid Waste

Waste	Total Quantity (MT)	
	During the current financial year 2023-2024	During the current financial year 2024-2025
a. From Process		
Dry Waste**	**Refer Annexure – 3***	
Wet Waste**		
RDF**		
b. From pollution control facilities		
(C-1) Quantity recycled or reutilized within the unit		
(C-2) Sold		
(C-3) Disposed		

** The solid waste details are of entire APSEZ area including MLTPL. The solid waste of MLTPL 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.

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:

Details of Hazardous Waste Management

Hazardous waste	Quantity (MT) disposed During the current financial year 2024-2025	Disposal Practice
Used/Spent Oil	Nil	Collection, Storage, Transportation & Disposal by reuse within premises and / or selling out to registered recycler/ reprocessor.
Discarded drum / Containers	Nil	Collection, Storage, Transportation & Disposal by reuse within premises and / or selling out to registered recycler/ reprocessor
Oily cotton rags	Nil	Collection, Storage, Transportation & Disposal by Co-processing at Cement Industries.
Sludge and filters contaminated with oil	Nil	Collection, Storage, Transportation & Disposal by selling out to registered recycler/ reprocessor.

Details of Solid Waste Management*

Solid Waste	Quantity (MT) disposed during the current financial year 2024-2025	Disposal method
Dry Waste	4274.89	After recovery sent/sold for recycling or reuse within premises
Wet Waste	1101.12	Food waste Converted to Manure for horticultural use and biogas generation for cooking purpose.
RDF	337.3	Sending to cement industry for co processing

* Above mentioned solid waste details are of entire APSEZ area including MLTPL. The solid waste of MLTPL 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.

- 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.

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 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 generated 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.
- Modifications of flush tanks have been added to the water system of toilet area in Port User Buildings.
- Recollection of water provided for hydro testing through water.

The following safeguard measures are taken for the 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.

- 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 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).

Environment Statement for 2024-25 for Mundra LPG Terminal Pvt. Ltd. (MLTPL),

(PCB ID: 53331)

- 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**
Address: **Mundra LPG Terminal Pvt. Ltd. (MLTPL), Mundra, Kutch – 370421.**

ANNEXURE – 1
Details of Water Consumption

Month	Industrial (KL)	Domestic (KL)	Total (KL)	Treated Effluent (Industrial & Domestic) in KL
Apr-24	2722.4	142.6	2865	736
May-24	3032	192	3224	710
Jun-24	4239	295	4534	964
Jul-24	4727	430	5157	3089
Aug-24	4651	580	5231	2709
Sep-24	4424	536	4960	1285
Oct-24	4601	479	5080	1459
Nov-24	3577	402	3979	1192
Dec-24	5320	253	5573	1104
Jan-25	4187	188	4375	902
Feb-25	3743	226	3969	985
Mar-25	4134	220	4354	979
Total	**49357.4**	**3943.6**	**53301**	**57244.6**
Per Month	**4113.12**	**328.63**	**4441.75**	**4770.38**
Per Day	**135.23**	**10.80**	**146.03**	**156.83**

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RESULTS OF LPG Terminal N –PIT WATER

SR.NO.	TEST PARAMETERS	UNIT	Liquid Terminal						TEST METHOD
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	
			27-04-2024	25-05-2024	27-06-2024	22-07-2024	16-08-2024	04-09-2024	
1.	Colour	Pt. Co. Scale	40	40	40	50	40	50	IS 3025(Part 4):2021
2.	pH @ 27 ° C	--	7.22	7.31	7.24	7.21	7.35	8.09	IS 3025(Part 11):2022
3.	Temperature	^{0}C	30.5	31.5	31	30	30	30	IS 3025(Part 9):2023
4.	Total Suspended Solids	mg/L	22	24	20	22	16	BDL(MDL:4.0)	APHA 24th Ed.2023,2540 –D
5.	Total Dissolved Solids	mg/L	1534	1540	1510	1470	1410	760	APHA 24th Ed.2023,2540- C
6.	COD	mg/L	116.4	105.2	96.8	90.3	88.4	56.4	IS 3025(Part 58):2023
7.	BOD (3 days at 27 ^{0}C)	mg/L	35	32	29	25	24	17	IS 3025(Part 44):2023
8.	Chloride (as Cl) $^-$	mg/L	451.2	434.2	410.2	386.8	377.2	417.7	IS 3025(Part 32):1988
9.	Oil & Grease	mg/L	3	3	2.9	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	IS 3025(Part 39):2021
10.	Ammonical Nitrogen	mg/L	16.2	18.4	17.8	12.1	14.8	3.5	IS 3025(Part 34):1988,

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

Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

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Results of Ambient Air Quality Monitoring

Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
1.	01-04-2024	74.28	34.92	25.36	29.07	1.1	--	NOT DETECTED
2.	04-04-2024	77.62	36.34	28.13	32.47	1.15	4.91	NOT DETECTED
3.	08-04-2024	72.35	34.11	24.87	28.53	1.12	4.84	NOT DETECTED
4.	11-04-2024	76.91	35.49	26.75	29.87	1.10	4.67	NOT DETECTED
5.	15-04-2024	80.24	38.63	28.59	33.12	1.18	4.79	NOT DETECTED
6.	18-04-2024	78.51	36.23	27.46	31.24	1.15	4.6	NOT DETECTED
7.	22-04-2024	75.89	33.96	26.19	29.68	1.12	4.42	NOT DETECTED
8.	25-04-2024	72.31	32.79	24.56	28.43	1.07	4.46	NOT DETECTED
9.	29-04-2024	77.57	35.68	27.46	31.74	1.13	4.58	NOT DETECTED
10.	02-05-2024	74.29	33.61	23.83	27.79	1.12	4.68	NOT DETECTED
11.	06-05-2024	76.82	34.98	26.12	30.27	1.13	4.73	NOT DETECTED
12.	09-05-2024	78.52	37.03	27.32	31.46	1.15	4.82	NOT DETECTED
13.	13-05-2024	75.43	35.72	24.38	28.56	1.13	4.72	NOT DETECTED
14.	16-05-2024	72.84	32.37	23.21	27.63	1.1	4.63	NOT DETECTED
15.	20-05-2024	76.13	36.72	24.39	28.96	1.14	4.57	NOT DETECTED

Continue…

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Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
16.	23-05-2024	78.53	37.12	26.51	30.27	1.15	4.6	NOT DETECTED
17.	27-05-2024	74.37	34.81	23.48	27.33	1.12	4.54	NOT DETECTED
18.	30-05-2024	76.19	35.52	25.27	29.78	1.14	4.7	NOT DETECTED
19.	03-06-2024	76.12	35.41	24.29	29.63	1.14	4.57	NOT DETECTED
20.	06-06-2024	73.49	33.58	22.75	26.85	1.11	4.45	NOT DETECTED
21.	10-06-2024	71.58	32.38	21.84	26.27	1.13	4.32	NOT DETECTED
22.	13-06-2024	74.31	34.67	24.11	29.61	1.14	4.61	NOT DETECTED
23.	17-06-2024	67.48	31.29	21.35	26.42	1.06	4.23	NOT DETECTED
24.	20-06-2024	70.53	32.47	23.36	27.7	1.10	4.41	NOT DETECTED
25.	24-06-2024	44.28	26.39	16.78	20.1	0.64	3.75	NOT DETECTED
26.	27-06-2024	48.74	28.36	19.65	22.37	0.72	3.88	NOT DETECTED
27.	01-07-2024	45.28	24.81	18.64	22.13	0.61	--	NOT DETECTED
28.	04-07-2024	48.69	26.34	16.49	20.73	0.66	3.58	NOT DETECTED
29.	08-07-2024	53.27	29.11	19.25	23.42	0.7	3.63	NOT DETECTED
30.	11-07-2024	51.48	27.35	18.74	22.10	0.67	3.75	NOT DETECTED
31.	15-07-2024	55.49	29.41	20.68	24.36	0.71	3.84	NOT DETECTED

Continue…

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Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
32.	18-07-2024	57.37	31.68	23.54	26.49	0.82	3.88	NOT DETECTED
33.	22-07-2024	52.39	29.75	19.68	23.95	0.65	3.72	NOT DETECTED
34.	25-07-2024	47.65	26.31	17.47	21.38	0.57	3.65	NOT DETECTED
35.	29-07-2024	42.39	23.88	14.91	18.77	0.49	3.52	NOT DETECTED
36.	01-08-2024	49.48	25.79	15.81	19.96	0.61	3.55	NOT DETECTED
37.	05-08-2024	51.29	27.18	16.92	20.85	0.63	3.63	NOT DETECTED
38.	08-08-2024	54.38	28.83	17.45	21.62	0.68	3.58	NOT DETECTED
39.	12-08-2024	57.48	29.91	19.20	23.52	0.72	3.69	NOT DETECTED
40.	15-08-2024	53.92	26.54	17.25	21.39	0.65	3.64	NOT DETECTED
41.	19-08-2024	55.73	27.36	18.31	22.78	0.69	3.67	NOT DETECTED
42.	22-08-2024	58.14	28.47	19.1	23.69	0.73	3.71	NOT DETECTED
43.	26-08-2024	56.58	26.29	17.64	21.57	0.68	3.68	NOT DETECTED
44.	29-08-2024	54.37	25.63	16.42	20.73	0.64	3.59	NOT DETECTED
45.	02-09-2024	52.38	26.14	16.82	20.68	0.66	3.6	NOT DETECTED
46.	05-09-2024	55.18	28.61	17.16	21.37	0.69	3.65	NOT DETECTED
47.	09-09-2024	53.48	25.14	16.74	20.61	0.67	3.63	NOT DETECTED

Continue…

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Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
48.	12-09-2024	57.73	27.64	17.83	21.58	0.73	3.66	NOT DETECTED
49.	16-09-2024	55.49	26.14	17.22	20.94	0.69	3.69	NOT DETECTED
50.	19-09-2024	58.84	27.91	18.53	22.37	0.71	3.74	NOT DETECTED
51.	23-09-2024	61.28	28.91	19.18	23.41	0.76	3.77	NOT DETECTED
52.	26-09-2024	55.43	25.74	16.98	20.49	0.67	3.65	NOT DETECTED
53.	30-09-2024	58.18	27.26	17.42	21.64	0.7	3.68	NOT DETECTED
Permissible Value as per NAAQMS		**100.0**	**60.0**	**80.0**	**80.0**	**2.0**	**---**	**5.0**
Test Method		**IS - 5182, Part- 23**	**UERL/AIR/ SOP/11**	**IS - 5182, Part - 2**	**IS - 5182, Part - 6**	**IS - 5182, Part - 10**	**Gas analyzer**	**IS – 5182, Part – 11**

Nikunj D. Patel
(Chemist)

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Jaivik S. Tandel
(Manager - Operations)

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Results of Noise Level Monitoring

Location Name		LPG Terminal Substation					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		15-04-2024	16-05-2024	17-06-2024	15-07-2024	15-08-2024	16-09-2024
1	06:00 to 07:00	60.1	61.4	63.5	64.1	63.8	63.4
2	07:00 to 08:00	61.8	63.2	61.8	65.7	64.7	64.1
3	08:00 to 09:00	63.5	65.1	63.4	64.3	64.3	64.8
4	09:00 to 10:00	63.6	66.4	65.4	66.8	67.7	65.4
5	10:00 to 11:00	64.8	65.8	64.8	67.3	66.4	67.2
6	11:00 to 12:00	66.6	67.2	66.3	65.2	66.8	67.1
7	12:00 to 13:00	65.4	66.3	64.2	67.4	65.5	65.2
8	13:00 to 14:00	64.1	64.1	65.8	65.8	64.8	65.8
9	14:00 to 15:00	64.9	64.8	68.2	67.1	65.7	64.3
10	15:00 to 16:00	66.3	65.3	67.3	64.3	65.2	64.7
11	16:00 to 17:00	65.8	65.7	64.3	65.8	64.8	65.2
12	17:00 to 18:00	66.3	64.2	66.1	65.2	65.7	64.5
13	18:00 to 19:00	64.8	63.9	65.4	64.1	65.2	64.1
14	19:00 to 20:00	64.5	62.7	63.9	66.4	64.7	62.9
15	20:00 to 21:00	63.3	63.6	63.5	65.2	64.2	63.6
16	21:00 to 22:00	61.7	62.4	61.7	63.8	63.7	63.1
Day Time		<75 dB (A)					

Continue...

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Location Name		LPG Terminal Substation					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		15-04-2024	16-05-2024	17-06-2024	15-07-2024	15-08-2024	16-09-2024
1	22:00 to 23:00	60.5	59.8	59.2	58.5	59.3	58.8
2	23:00 to 24:00	62.3	60.8	59.5	58.8	59.6	60.4
3	24:00 to 01:00	61.7	62.4	60.4	61.2	60.5	60.8
4	01:00 to 02:00	61.9	64.1	62.7	61.6	63.1	63.4
5	02:00 to 03:00	63.4	63.4	63.2	62.5	61.7	62.3
6	03:00 to 04:00	62.7	63.9	61.8	60.4	59.8	60.7
7	04:00 to 05:00	62.9	61.7	61.1	59.6	60.3	58.4
8	05:00 to 06:00	61.8	60.4	59.7	58.7	58.3	57.8
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981

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(Chemist)

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Results of Stack Monitoring

Sr. No.	Parameter	Unit	Sep - 2024 D.G. Set-1 (2000 KVA) 26-09-2024	GPCB LIMIT	Method of Test
1	Particulate Matter	mg/Nm3	28.19	**150**	**IS 11255 (Part - 1)**
2	Sulphur Dioxide	ppm	11.82	**100**	**IS 11255 (Part - 2)**
3	Oxide of Nitrogen	ppm	24.1	**50**	**IS 11255 (Part - 7)**
4	Carbon Monoxide	mg/Nm3	4.6	--	**UERL/AIR/SOP/ 18**
5	Non Methyl Hydro Carbon	ppm	Not Detected	--	**UERL/AIR/SOP/ 27**

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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 (PM10)	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
14	Hydro Carbon	µg/m3	1 µg/m3
Stack Emission Monitoring			
Sr. No.	**Test Parameter**	**Unit**	**MDL**
1	Suspended 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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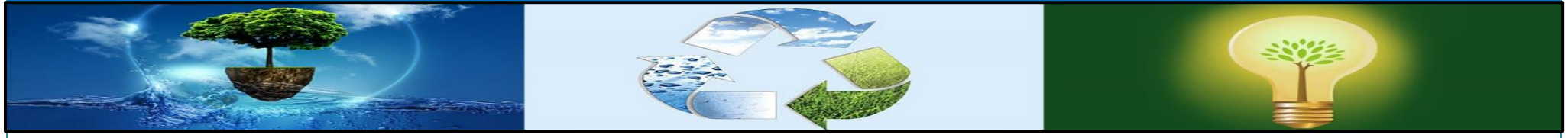
LPG Terminal N –PIT			
Sr. No.	**Test Parameter**	**Unit**	**MDL**
1	Colour	Pt. Co. Scale	5
2	pH @ 27 ° C	--	2
3	Temperature	0C	5
4	Total Suspended Solids	mg/L	4
5	Total Dissolved Solids	mg/L	4
6	COD	mg/L	2
7	BOD (3 days at 27 0C)	mg/L	1
8	Chloride (as Cl) -	mg/L	1
9	Oil & Grease	mg/L	2



“Half Yearly Environmental Monitoring Reports “

For,

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Ports and Logistics

M/S. Mundra LPG Terminal Pvt. Ltd.

PLOT NO. 169/P, AT - NAVINAL ISLAND, Village - MUNDRA, Tal. – Mundra, DIST. - KUTCH - 370421.

Monitoring Period: October – 2024 to March - 2025

Submitted By

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RESULTS OF LPG Terminal N –PIT WATER

SR.NO.	TEST PARAMETERS	UNIT	Liquid Terminal						TEST METHOD
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	
			24-10-2024	25-11-2024	25-12-2024	24-01-2025	14-02-2025	14-03-2025	
1.	Colour	Pt. Co. Scale	50	40	40	40	40	50	IS 3025(Part 4):2021
2.	pH @ 27 ° C	--	7.66	7.56	7.35	7.23	7.03	7.14	IS 3025(Part 11):2022
3.	Temperature	^{0}C	30	29.5	29	29	30	30.5	IS 3025(Part 9):2023
4.	Total Suspended Solids	mg/L	12	18	14	20	12	16	APHA 24th Ed.2023,2540 –D
5.	Total Dissolved Solids	mg/L	810	844	910	1002	900	934	APHA 24th Ed.2023,2540- C
6.	COD	mg/L	67.4	76.2	84.3	68.6	48.2	62.4	IS 3025(Part 58):2023
7.	BOD (3 days at 27 ^{0}C)	mg/L	20	23	25	21	14	18	IS 3025(Part 44):2023
8.	Chloride (as Cl) $^-$	mg/L	430.4	448.5	502	514.2	335.1	346.4	IS 3025(Part 32):1988
9.	Oil & Grease	mg/L	BDL(MDL:2.0)	2	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	IS 3025(Part 39):2021
10.	Ammonical Nitrogen	mg/L	3.4	3.8	5.2	9.8	5.2	5.8	IS 3025(Part 34):1988,

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Results of Ambient Air Quality Monitoring

Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
1.	03-10-2024	64.38	28.71	20.74	23.58	0.72	--	NOT DETECTED
2.	07-10-2024	67.63	29.78	21.32	25.2	0.76	3.73	NOT DETECTED
3.	10-10-2024	63.93	28.56	20.54	23.57	0.74	3.68	NOT DETECTED
4.	14-10-2024	66.48	30.46	21.26	24.47	0.75	3.7	NOT DETECTED
5.	17-10-2024	71.59	32.47	23.52	26.81	0.8	3.76	NOT DETECTED
6.	21-10-2024	74.36	33.64	24.43	27.56	0.83	3.81	NOT DETECTED
7.	24-10-2024	72.17	32.24	23.61	26.18	0.77	3.78	NOT DETECTED
8.	28-10-2024	76.59	34.68	24.88	27.36	0.81	3.86	NOT DETECTED
9.	31-10-2024	75.16	33.42	24.15	27.63	0.78	3.82	NOT DETECTED
10.	04-11-2024	72.46	30.78	22.37	26.15	0.80	3.79	NOT DETECTED
11.	07-11-2024	75.62	31.46	23.15	27.63	0.86	3.88	NOT DETECTED
12.	11-11-2024	78.82	33.46	25.83	29.37	0.82	3.91	NOT DETECTED
13.	14-11-2024	81.54	36.11	26.77	31.16	0.91	3.98	NOT DETECTED
14.	18-11-2024	76.49	34.51	25.63	29.38	0.88	3.82	NOT DETECTED
15.	21-11-2024	74.38	33.26	24.37	28.63	0.83	3.76	NOT DETECTED

Continue…

Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
16.	25-11-2024	70.42	31.79	22.97	26.48	0.79	3.72	NOT DETECTED
17.	28-11-2024	73.28	33.91	24.12	29.38	0.84	3.81	NOT DETECTED
18.	02-12-2024	75.17	34.83	23.47	27.15	0.83	3.8	NOT DETECTED
19.	05-12-2024	78.45	36.11	24.13	28.38	0.89	3.93	NOT DETECTED
20.	09-12-2024	82.36	38.1	26.59	30.42	0.86	3.99	NOT DETECTED
21.	12-12-2024	77.82	35.71	23.94	27.54	0.80	3.86	NOT DETECTED
22.	16-12-2024	80.24	36.58	25.73	30.55	0.84	3.91	NOT DETECTED
23.	19-12-2024	83.91	38.25	27.19	31.27	0.91	3.96	NOT DETECTED
24.	23-12-2024	79.65	35.27	24.35	29.11	0.87	3.86	NOT DETECTED
25.	26-12-2024	75.17	33.48	23.92	27.31	0.77	3.78	NOT DETECTED
26.	30-12-2024	77.31	34.23	25.88	30.36	0.82	3.85	NOT DETECTED
27.	02-01-2025	81.52	35.13	28.36	31.84	1.00	--	NOT DETECTED
28.	06-01-2025	78.65	34.21	26.14	30.11	0.95	3.73	NOT DETECTED
29.	09-01-2025	75.49	31.48	25.73	28.57	0.89	3.67	NOT DETECTED
30.	13-01-2025	71.28	29.84	23.58	27.12	0.83	3.58	NOT DETECTED
31.	16-01-2025	74.84	31.56	24.79	27.8	0.88	3.64	NOT DETECTED

Continue…

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Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
32.	20-01-2025	79.48	33.58	27.69	30.52	0.93	3.75	NOT DETECTED
33.	23-01-2025	76.17	31.79	25.37	28.46	0.85	3.69	NOT DETECTED
34.	27-01-2025	80.83	34.71	28.52	31.64	0.97	3.79	NOT DETECTED
35.	30-01-2025	74.38	32.1	25.32	28.56	0.90	3.72	NOT DETECTED
36.	03-02-2025	79.54	31.83	26.39	29.15	0.87	3.76	NOT DETECTED
37.	06-02-2025	75.37	30.13	24.68	27.27	0.81	3.8	NOT DETECTED
38.	10-02-2025	78.64	33.11	25.53	28.76	0.85	3.71	NOT DETECTED
39.	13-02-2025	71.26	28.63	23.91	26.48	0.79	3.67	NOT DETECTED
40.	17-02-2025	74.37	29.63	24.79	27.51	0.83	3.72	NOT DETECTED
41.	20-02-2025	68.54	28.42	23.57	27.11	0.78	3.68	NOT DETECTED
42.	24-02-2025	72.54	29.75	24.46	28.07	0.85	3.74	NOT DETECTED
43.	27-02-2025	75.82	30.54	26.91	29.64	0.89	3.81	NOT DETECTED
44.	03-03-2024	76.83	30.61	25.74	30.02	0.84	3.78	NOT DETECTED
45.	06-03-2024	80.42	34.37	28.64	32.45	0.9	3.84	NOT DETECTED
46.	10-03-2024	78.64	31.58	27.41	30.95	0.77	3.73	NOT DETECTED
47.	13-03-2024	75.15	29.94	26.57	30.16	0.75	3.67	NOT DETECTED

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Name of Location		LPG Terminal Substation						
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	HC µg/m³	Benzene µg/m³
48.	17-03-2024	81.37	33.52	28.85	32.36	0.86	3.79	NOT DETECTED
49.	20-03-2024	78.12	31.91	27.25	31.57	0.81	3.75	NOT DETECTED
50.	24-03-2024	69.84	29.35	24.98	29.32	0.75	3.7	NOT DETECTED
51.	27-03-2024	72.53	30.32	25.37	29.82	0.84	3.73	NOT DETECTED
52.	31-03-2024	76.42	32.56	27.21	31.75	0.89	3.8	NOT DETECTED
Permissible Value as per NAAQMS		**100.0**	**60.0**	**80.0**	**80.0**	**2.0**	**---**	**5.0**
Test Method		**IS - 5182, Part- 23**	**UERL/AIR/ SOP/11**	**IS - 5182, Part - 2**	**IS - 5182, Part - 6**	**IS - 5182, Part - 10**	**Gas analyzer**	**IS – 5182, Part – 11**

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Results of Noise Level Monitoring

Location Name		LPG Terminal Substation					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		17-10-2024	18-11-2024	16-12-2024	16-01-2025	17-02-2025	17-03-2025
1	06:00 to 07:00	64.2	63.5	63.4	62.8	63.1	63.4
2	07:00 to 08:00	63.8	62.8	65.1	66.3	62.5	63.2
3	08:00 to 09:00	66.7	64.5	63.7	65.3	63.8	64.5
4	09:00 to 10:00	65.2	67.1	65.5	65.8	66.6	65.2
5	10:00 to 11:00	67.1	68.4	67.1	65.3	64.5	65.8
6	11:00 to 12:00	65.8	66.5	65.4	66.2	66.3	65.4
7	12:00 to 13:00	64.5	67.8	66.7	65.4	65.7	64.5
8	13:00 to 14:00	67.3	66.3	65.7	67.4	65.3	66.8
9	14:00 to 15:00	66.8	65.7	64.5	64.7	65.8	64.5
10	15:00 to 16:00	63.1	65.1	63.2	64.3	67.2	67.1
11	16:00 to 17:00	65.8	62.8	64.5	65.7	66.4	65.6
12	17:00 to 18:00	68.1	64.9	66.7	66.2	64.7	64.3
13	18:00 to 19:00	64.8	65.8	67.2	65.7	63.9	64.2
14	19:00 to 20:00	65.3	66.1	65.4	65.3	66.4	65.7
15	20:00 to 21:00	63.9	65.2	63.2	62.8	63.2	62.3
16	21:00 to 22:00	62.3	62.7	61.9	61.2	63.3	61.8
Day Time		<75 dB (A)					

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Location Name		LPG Terminal Substation					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		17-10-2024	18-11-2024	16-12-2024	16-01-2025	17-02-2025	17-03-2025
1	22:00 to 23:00	59.8	60.5	63.3	62.5	63.1	61.8
2	23:00 to 24:00	61.9	59.5	61.3	63.7	62.5	61.3
3	24:00 to 01:00	60.8	60.4	62.8	61.8	63.2	63.4
4	01:00 to 02:00	62.4	61.3	64.5	63.5	64.5	64.5
5	02:00 to 03:00	63.7	62.6	63.8	64.5	63.1	62.8
6	03:00 to 04:00	61.3	61.5	61.3	64.3	61.8	60.5
7	04:00 to 05:00	60.3	61.8	62.4	63.2	63.7	61.3
8	05:00 to 06:00	58.3	59.4	60.7	61.7	61.3	60.8
Night 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-1 (2000 KVA) 27-03-2025	GPCB LIMIT	Method of Test
1	Particulate Matter	mg/Nm3	32.11	**150**	**IS 11255 (Part - 1)**
2	Sulphur Dioxide	ppm	14.32	**100**	**IS 11255 (Part - 2)**
3	Oxide of Nitrogen	ppm	27.5	**50**	**IS 11255 (Part - 7)**
4	Carbon Monoxide	mg/Nm3	4.8	--	**UERL/AIR/SOP/ 18**
5	Non Methyl Hydro Carbon	ppm	Not Detected	--	**UERL/AIR/SOP/ 27**

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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 (PM10)	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
14	Hydro Carbon	µg/m3	1 µg/m3

Stack Emission Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Suspended 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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LPG Terminal N –PIT			
Sr. No.	**Test Parameter**	**Unit**	**MDL**
1	Colour	Pt. Co. Scale	5
2	pH @ 27 ° C	--	2
3	Temperature	0C	5
4	Total Suspended Solids	mg/L	4
5	Total Dissolved Solids	mg/L	4
6	COD	mg/L	2
7	BOD (3 days at 27 ^{0}C)	mg/L	1
8	Chloride (as Cl) -	mg/L	1
9	Oil & Grease	mg/L	4

ANNEXURE – 3
Details of Waste Management of 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

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**