

adani

Ports and
Logistics

o/c
PCB ID: 17739

Ref No. APSEZL/EnvCell/2024-25/052

Date: 02.09.2024

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, 2024 for **M/s Adani Ports and Special Economic Zone Limited.**

Ref: Consent Order No. AWH – 117045, date of issue 14/02/2022, valid up to 20/11/2026.

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 **M/s Adani Ports and Special Economic Zone Limited, Plot No. 169/P & Unsurveyed / Reclaimed Land near Navinal Isand, Taluka: Mundra, Dist. Kutch - 370421** for the financial year ending 31st March 2024.

Thank you,

Yours faithfully,
For **Adani Ports and Special Economic Zone Limited**

Blump

Authorized Signatory

Encl: As above.

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

Adani Ports and Special Economic Zone Ltd
Adani House,
PO Box No. 1
Mundra, Kutch 370 421
Gujarat, India
CIN: L63090GJ1998PLC034182

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Fax +91 2838 25 51110
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Registered Office: Adani Corporate House, Shantigram, Nr. Vaishno Devi Circle, S.G. Highway, Khodiyar, Ahmedabad – 382421, Gujarat, India

519124
Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited

(PCB ID: 17739)

FORM V

(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2024

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 4 th 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	:	<table border="1"><thead><tr><th>Sr. No.</th><th>Product/ Cargo Handled</th><th>Quantity</th></tr></thead><tbody><tr><td>1</td><td>General Cargo</td><td rowspan="2">17.69 MMT</td></tr><tr><td>2</td><td>Dry Cargo</td></tr><tr><td>3</td><td>Liquid Cargo (Chemicals/POC products)</td><td>4.88 MMT</td></tr><tr><td>4</td><td>Import, Storage and Distribution of Edible Oil</td><td>1.87 MMT</td></tr><tr><td>5</td><td>Storage and Distribution of Bitumen</td><td>0.04 MMT</td></tr><tr><td>6</td><td>Container Terminal Handling Operation</td><td>5.69 MTEUs</td></tr><tr><td>7</td><td>Waste Destruction System for decomposition / destruction municipal solid waste</td><td>NIL</td></tr><tr><td>8</td><td>Oil Water Separator (Flame Proof) to remove – Oil portion from slope oil received from Vessels / Ships</td><td>NIL</td></tr></tbody></table>	Sr. No.	Product/ Cargo Handled	Quantity	1	General Cargo	17.69 MMT	2	Dry Cargo	3	Liquid Cargo (Chemicals/POC products)	4.88 MMT	4	Import, Storage and Distribution of Edible Oil	1.87 MMT	5	Storage and Distribution of Bitumen	0.04 MMT	6	Container Terminal Handling Operation	5.69 MTEUs	7	Waste Destruction System for decomposition / destruction municipal solid waste	NIL	8	Oil Water Separator (Flame Proof) to remove – Oil portion from slope oil received from Vessels / Ships	NIL
Sr. No.	Product/ Cargo Handled	Quantity																											
1	General Cargo	17.69 MMT																											
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6	Container Terminal Handling Operation	5.69 MTEUs																											
7	Waste Destruction System for decomposition / destruction municipal solid waste	NIL																											
8	Oil Water Separator (Flame Proof) to remove – Oil portion from slope oil received from Vessels / Ships	NIL																											
(iv)	Year of Establishment	:	1998																										
(v)	Date of last Environment Statement submitted	:	11/09/2023																										

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited**(PCB ID: 17739)**

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PART – B**Water and Raw Material Consumption****(i) Water Consumption**

Water Consumption Cu. Mtr./Day	Average
Process (Gardening / Horticulture / Sprinkling)	1312 m ³ /day
Cooling & others	
Domestic	125 m ³ /day

Details of Water Consumption for the year 2023-24 is enclosed as **Annexure – 1**.

Name of Products	Process Water Consumption per unit of Product Output*	
	During the current financial year (2022-23)	During the current financial year (2023-24)
Handling, Storage and Distribution of General Cargo, Liquid Cargo, Dry Cargo, Bitumen and Container operation*	0.0049 KL/MT of Cargo Handled	0.0049 KL/MT of Cargo Handled

* Unit does not go under any manufacturing process. The water consumed for industrial activity was mainly in firefighting, dust suppression, sprinkling and horticulture activities.

(ii) Raw Material Consumption

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the current financial year (2022-23)	During the current financial year (2023-24)
Total Cargo Handled*	Dry Cargo + General Cargo	1,61,01,104 MT	1,76,85,512 MT
	Liquid Cargo	44,94,698 MT	48,81,538 MT
	Edible Oil	10,97,842 MT	18,73,912 MT
	Bitumen	42,425 MT	41,085 MT
	Container Operation	51,83,920 TEUs	56,88,343 TEUs

* Unit does not undergo any manufacturing or production process as it is service industry engaged in handling & transportation of dry cargo, liquid chemicals, container operations and its storage.

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited

(PCB ID: 17739)

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		Percentage of variation from prescribed standards with reasons
	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(a) Waste Water	pH	--	pH	7.20	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. ETP having capacity of 265 KLD. 2. 36732 KL Treated water discharged during April 2023 – March 2024. was utilized for horticulture / greenbelt purpose within premises. (Attached as Annexure-1) 3. Analysis reports of treated water are enclosed as Annexure – 2.
	Total Suspended Solids	2.98	Total Suspended Solids	29.67	
	COD	8.37	COD	83.43	
	BOD (3 Days @ 27 °C)	2.44	BOD (3 Days @ 27 oC)	24.29	
	Oil & Grease	BDL (MDL:2.0)	Oil & Grease	BDL (MDL:2.0)	
(b) Air (14 Nos DG Stack + 02 nos hot water generator stack +02 Nos Thermic Fluid Heater)					There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. DG sets are 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)	0.75	Particulate Matter (mg/Nm ³)	21.52	
	Sulphur Dioxide (SO ₂)	0.80	Sulphur Dioxide (PPM)	8.59	
	Nitrogen Oxide (NO _x)	1.44	Nitrogen Oxide (NO _x) (PPM)	22.26	

Details of treated water discharge for the year 2023-24 are enclosed as **Annexure – 1.**

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited

(PCB ID: 17739)

PART – D

Hazardous Wastes

(As specified under Hazardous & Other waste Wastes Management 2016)

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2022-23)	During the current financial year (2023-24)
(a) From Process	Annexure – 3*	
(b) From Pollution Control facilities		

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the current financial year (2022-23)	During the current financial year (2023-24)
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities	Refer Annexure – 3*	
(C-1) Quantity recycled or reutilized within the unit		
(C-2) Sold		
(C-3) Disposed		

***Note:** Quantity shown in **Annexure – 3** is waste generated as well as disposed from entire Adani Ports and SEZ Limited, Mundra.

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 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 in to 16 streams at MRF, which is sent to different end users following 5 R principal. To manage all operation of MRF, APSEZ developed local vendor through 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 bio gas plant at Central Kitchen location. This plant is sufficient to manage the food Waste generated from 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:
 - 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 Zapara & Navinal School dated 4th & 5th May, 2023.
 - Celebrated "International Plastic Bag Free Day" on 3rd July 2023 by conducting the Training Awareness to students at Bhujpur Village, and with Cotton Bag distribution in our residential Colonies.
 - Plastic Waste Collection Drive was conducted on 20th March 2024 at our Old Railway Building, aimed at combating plastic pollution, and fostering environmental sustainability. The drive was continued for full working day and collected approx. 450 kgs of plastic waste from our old Railway Building area.
 - 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.
- APSEZ has awarded with Zero Waste to Landfill Management System (ZWTL MS 2020) from TÜV Rheinland India Pvt. Ltd.
- Sludge generated from STP is being utilized as manure for horticulture purpose.
- SEZ industries are managing their waste as per own standard procedure and following regulatory norms.

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 9.06 million units in FY 2023-24 and utilized the renewable source of energy for captive use this reduced the emission of CO₂ by nearly 7427 tCo_{2e}.

- **Water Conservation:**
 - Water reducers have been installed in 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

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited

(PCB ID: 17739)

PART – H

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

- Treated water from ETP is used for gardening and horticulture activity within APSEZ premises to conserve the fresh water consumption.
- Unit has formed dedicated Horticulture department & developing green belt within port premises.
- Total mangrove conservation area is 2723 Ha and mangrove afforestation area is 4140 Ha. (250 ha during FY 2023-24).
- In entire APSEZ more than 457.99 ha. area is developed as greenbelt with samplings of more than 9.06 Lacs.
- Following safeguard measures are taken for abatement of dust and noise emissions:
 - ✓ Regular sprinkling on road and other open area
 - ✓ 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 2023-24 is to the tune of INR **1536.48** lakh. Out of which, Approx. INR **1366.281** lakh is spent during the year FY 2023-24. Detailed breakup of the expenditures for the FY 2023-24 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: 28-08-2024

(Signature of a person carrying out an industry, operation or process)

Designation: **Head-Environment Cell**

Address: **Adani House, P.O. Box No. 1, Adani Ports & SEZ Ltd., Village & Taluka: Mundra, Kutch – 370421.**

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited**(PCB ID: 17739)****Annexure - 1****Details of Water Consumption and Treated Water Discharge
(Apr-23 to Mar-24)**

Month	Water Consumption (KL)			Treated water, KL
	Category-1 (Gardening, Sprinkling), KL	Category-2 (Domestic), KL	Total, KL	
Apr-23	39324	3888	43211	3110
May-23	39901	4063	43963	3250
Jun-23	36495	3919	40414	3135
Jul-23	36504	5780	42284	4624
Aug-23	41627	3545	45172	2836
Sep-23	42049	3305	45354	2644
Oct-23	41168	4646	45814	3717
Nov-23	44017	3133	47149	2506
Dec-23	36873	3939	40812	3151
Jan-24	35124	4718	39842	3774
Feb-24	42123	964	43087	771
Mar-24	44864	4018	48881	3214
Total	480068	45915	525983	36732
Averg. Per Month	40006	3826	43832	3061
Averg. Per Day	1312	125	1437	100

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited**(PCB ID: 17739)****ANNEXURE - 3****Details of Waste Management of APSEZ, Mundra**

Sr. No.	Waste Description	Disposal Method	Unit	Quantity 2022-23	Quantity 2023-24
Non-Hazardous:					
1.	Dry Waste (Recyclable waste-Metal, Wood, paper, plastic etc.)	Recycle (send to reg. recycler)/ Reuse (Used by Org.)	MT	3779.70	3312.775
2.	RDF (Non-Recyclable)	Co-processing at cement plant	MT	544.17	451.28
3.	STP Sludge	Reprocess (Manure)	MT	11.8	3
4.	Organic Waste (included food waste)	Reprocess & Recovery Manure/biogas	MT	897.82	959.35
5.	E-Waste	Recycle (send to reg. recycler)	MT	89.86	44.83
6.	Battery Waste	Recycle (send to reg. recycler)	MT	17.83	19.89
Hazardous:					
1.	ETP Sludge:	Co-processing	MT	1.91	5.68
2.	Pig Waste:	Co-processing/Incineration	MT	13.05	12.39
3.	Oily Cotton Waste:	Co-processing/Incineration	MT	98.52	110.04
4.	Used Oil:	Recycle (send to recycler)	MT	101.392	155.781
5.	Discarded Containers:	Recycle (send to recycler)	MT	NIL	5.32
6.	Glass Wool:	Land Fill (send to CHWDF)	MT	24.09	NIL

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited

(PCB ID: 17739)

ANNEXURE-4

Cost of Environmental Protection Measures of APSEZ, Mundra

F.Y. 2023 - 24

Sr. No.	Activity	Cost incurred (INR in Lacs)	Budgeted Cost (INR in Lacs)
		2023 - 24	2023 - 24
1.	Environmental Study / Audit and Consultancy	22.67	27
2.	Legal & Statutory Expenses	8.60	13
3.	Environmental Monitoring Services	13.37	19.20
4.	Hazardous / Non-Hazardous Waste Management & Disposal	130.11	148.68
5.	Environment Days Celebration and Advertisement / Business development	3.42	11.50
6.	Treatment and Disposal of Bio-Medical Waste	2.28	2.28
7.	Mangrove Plantation, Monitoring & Conservation	15	15.0
8.	Other Horticulture Expenses	904	904
9.	O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant)	186.94	212.9
10.	Expenditure of Environment Dept. (Apart from above head)	80.39	182.92
Total		1366.281	1536.48



“Half Yearly Environmental Monitoring Reports “

For,
adani
Ports and
Logistics

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

PLOT NO. 169/P, AT - NAVINAL ISLAND, TAL. - MUNDRA, DIST. - KUTCH - 370421.

Monitoring Period: April - 2023 to September - 2023

Submitted By



UniStar Environment & Research Labs Pvt. Ltd.

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



RESULTS OF ETP OUTLET WATER

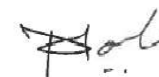
SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23		
			21-04-2023	29-05-2023	29-06-2023	25-07-2023	25-08-2023	14-09-2023		
1.	Colour	Pt. Co. Scale	50	40	50	40	50	50	100	IS 3025(Part 4)
2.	pH @ 27 ° C	--	7.41	6.74	7.26	7.36	7.44	7.52	6.5 to 8.5	APHA 23 rd Ed.,2017,4500-H ⁺ B
3.	Temperature	°C	30	31	30.5	30	30	30	40	IS 3025(Part 9)1984
4.	Total Suspended Solid	mg/L	22	24	26	24	18	32	100	APHA 23 rd Ed.,2017,2540 –D
5.	Total Dissolved Solids	mg/L	1106	732	804	810	822	840	2100	APHA 23 rd Ed.,2017,2540- C
6.	COD	mg/L	72.6	76.2	74.3	89.4	80.9	83.6	100	IS 3025(Part 58)2006
7.	BOD (3 days at 27 °C)	mg/L	20	23	25	27	24	23	30	IS 3025(Part 44)1993Amd.01
8.	Chloride (as Cl) ⁻	mg/L	480.9	332.5	420.1	411.5	391	337.3	600	IS 3025(PART 32) 1988
9.	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(Part39)1991, Amd. 2
10.	Sulphate (as SO ₄)	mg/L	102	43.3	40.2	36.6	42.2	46.4	1000	IS 3025(Part 24)1986
11.	Ammonical Nitrogen	mg/L	22.2	28.4	24.2	22.8	20.6	28.8	50	IS 3025(Part 34)1988,
12.	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)1992, Amd.2
13.	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)1992amd.01,
14.	Lead as Pb	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	0.1	APHA 23 rd Ed.,2017,3111-B

Continue...

SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD	
			Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23			
			21-04-2023	29-05-2023	29-06-2023	25-07-2023	25-08-2023	14-09-2023			
15.	Sulphide as S	mg/L	0.62	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 23 rd Ed.,2017,4500 S ⁻² F
16.	Cadmium as Cd	mg/L	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	2	APHA 23 rd Ed.,2017,3111-B
17.	Fluoride as F	mg/L	1.03	0.82	0.94	0.86	0.74	0.66		2	APHA 23 rd Ed.,2017,4500 F, D
18.	Residual Chlorine	mg/L	0.74	0.88	0.78	0.64	0.94	0.82		0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B
19.	Percent Sodium	%	48.51	48.05	46.74	45.72	46.93	46.94		60	By Calculation
20.	Sodium Absorption ratio	--	3.51	3.09	2.67	2.86	2.64	2.61		26	By Calculation



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
1.	03-04-2023	84.38	41.2	38.42	45.72	1.93	--	NOT DETECTED
2.	06-04-2023	81.26	36.18	32.54	36.92	1.47	3.58	NOT DETECTED
3.	10-04-2023	74.72	35.82	26.48	33.24	1.18	5.62	NOT DETECTED
4.	13-04-2023	78.41	39.16	29.64	36.41	1.16	2.48	NOT DETECTED
5.	17-04-2023	82.57	40.86	32.28	38.74	1.38	2.51	NOT DETECTED
6.	20-04-2023	76.38	37.55	27.94	34.19	0.97	4.87	NOT DETECTED
7.	24-04-2023	81.53	34.27	31.62	37.47	1.12	2.78	NOT DETECTED
8.	27-04-2023	75.28	36.91	28.47	34.69	0.95	3.94	NOT DETECTED
9.	01-05-2023	72.59	38.73	36.57	41.38	1.28	6.32	NOT DETECTED
10.	04-05-2023	78.42	34.65	31.48	35.63	1.16	4.76	NOT DETECTED
11.	08-05-2023	84.61	41.13	37.64	44.13	1.39	6.58	NOT DETECTED
12.	11-05-2023	86.74	31.38	30.19	33.53	1.10	4.37	NOT DETECTED
13.	15-05-2023	80.15	26.78	34.15	39.53	1.15	4.16	NOT DETECTED
14.	18-05-2023	77.58	34.71	37.14	41.95	1.17	4.85	NOT DETECTED
15.	22-05-2023	71.31	29.85	26.54	29.36	1.15	3.28	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
16.	25-05-2023	75.47	37.53	34.29	39.74	1.28	4.61	NOT DETECTED
17.	29-05-2023	67.53	31.36	31.11	36.98	1.32	4.74	NOT DETECTED
18.	01-06-2023	86.95	32.73	29.58	32.56	1	4.81	NOT DETECTED
19.	05-06-2023	87.39	29.63	25.19	27.41	0.80	3.12	NOT DETECTED
20.	08-06-2023	82.47	35.38	32.46	35.71	0.5	6.02	NOT DETECTED
21.	12-06-2023	85.25	30.76	28.38	31.25	0.7	5.68	NOT DETECTED
22.	15-06-2023	75.23	28.12	16.15	22.98	0.05	4.38	NOT DETECTED
23.	19-06-2023	62.35	22.12	13.52	17.36	0.05	4.19	NOT DETECTED
24.	22-06-2023	54.23	20.18	10.44	13.48	0.1	3.45	NOT DETECTED
25.	26-06-2023	58.1	23.15	8.26	13.54	0.05	3.22	NOT DETECTED
26.	29-06-2023	52.47	20.12	7.25	12.97	0.03	3.89	NOT DETECTED
27.	03-07-2023	55.63	19.27	13.58	16.41	ND	--	NOT DETECTED
28.	06-07-2023	61.28	23.85	16.43	20.58	ND	ND	NOT DETECTED
29.	10-07-2023	58.39	20.51	13.1	17.32	ND	ND	NOT DETECTED
30.	13-07-2023	67.52	23.46	17.59	21.45	ND	1.57	NOT DETECTED
31.	17-07-2023	55.21	21.99	14.12	18.93	ND	ND	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
32.	20-07-2023	62.48	24.51	16.53	20.71	ND	ND	NOT DETECTED
33.	24-07-2023	70.62	26.86	19.25	23.66	ND	2.31	NOT DETECTED
34.	27-07-2023	64.5	23.45	15.59	18.35	ND	1.86	NOT DETECTED
35.	31-07-2023	74.38	24.16	17.42	21.63	ND	2.74	NOT DETECTED
36.	03-08-2023	78.42	27.17	23.85	28.17	0.51	3.1	NOT DETECTED
37.	07-08-2023	83.74	29.82	24.98	30.52	0.73	3.86	NOT DETECTED
38.	10-08-2023	73.29	33.52	27.43	32.65	0.91	4.38	NOT DETECTED
39.	14-08-2023	89.54	30.79	25.14	29.67	0.84	3.95	NOT DETECTED
40.	17-08-2023	84.82	34.65	28.06	34.29	1	4.63	NOT DETECTED
41.	21-08-2023	87.57	37.25	33.96	38.11	1.1	5.82	NOT DETECTED
42.	24-08-2023	80.41	35.76	31.45	36.74	1.06	5.21	NOT DETECTED
43.	28-08-2023	88.65	31.38	28.91	32.5	0.92	3.4	NOT DETECTED
44.	31-08-2023	82.18	33.82	30.24	34.62	1	4.27	NOT DETECTED
45.	04-09-2023	80.43	30.14	25.38	29.71	0.74	3.89	NOT DETECTED
46.	07-09-2023	85.28	33.87	27.49	32.12	0.87	4.26	NOT DETECTED
47.	11-09-2023	87.36	35.81	31.57	36.79	0.96	5.36	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
48.	14-09-2023	84.1	31.27	29.14	34.62	0.81	4.92	NOT DETECTED
49.	18-09-2023	73.79	26.94	23.41	26.63	0.65	3.24	NOT DETECTED
50.	21-09-2023	78.52	29.63	26.54	30.21	0.8	4.28	NOT DETECTED
51.	25-09-2023	75.18	28.42	25.77	29.83	0.72	3.85	NOT DETECTED
52.	28-09-2023	81.84	32.56	29.91	34.52	0.84	4.1	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		Near Fire Station						
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	HC µg/m ³	Benzene µg/m ³
1.	03-04-2023	76.48	31.73	26.14	32.87	0.86	--	NOT DETECTED
2.	06-04-2023	89.53	38.79	29.47	35.63	0.99	3.12	NOT DETECTED
3.	10-04-2023	85.1	42.18	33.86	39.25	1.1	2.96	NOT DETECTED
4.	13-04-2023	78.46	37.67	26.24	31.63	0.89	3.63	NOT DETECTED
5.	17-04-2023	88.24	45.64	37.11	44.91	1.13	5.1	NOT DETECTED
6.	20-04-2023	81.39	40.71	33.79	36.15	1.12	3.78	NOT DETECTED
7.	24-04-2023	86.73	36.28	24.87	27.61	1	3.16	NOT DETECTED
8.	27-04-2023	89.74	39.56	27.71	31.36	1.10	4.85	NOT DETECTED
9.	01-05-2023	88.16	41.58	34.82	37.16	1.18	4.87	NOT DETECTED
10.	04-05-2023	83.84	38.47	31.98	34.64	1.15	3.68	NOT DETECTED
11.	08-05-2023	86.48	34.21	26.14	31.99	0.97	3.16	NOT DETECTED
12.	11-05-2023	77.59	39.69	36.83	40.71	1.17	4.28	NOT DETECTED
13.	15-05-2023	89.36	36.71	29.56	34.41	1	2.95	NOT DETECTED
14.	18-05-2023	83.17	31.58	24.75	28.78	0.93	3.48	NOT DETECTED
15.	22-05-2023	80.49	39.78	33.05	38.51	1.13	4.17	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
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	HC µg/m ³	Benzene µg/m ³
32.	20-07-2023	64.96	26.13	18.37	22.45	0.02	2.84	NOT DETECTED
33.	24-07-2023	60.65	25.83	17.32	20.84	ND	3	NOT DETECTED
34.	27-07-2023	69.27	27.61	19.03	24.58	ND	3.37	NOT DETECTED
35.	31-07-2023	77.17	29.76	23.53	27.24	0.1	3.89	NOT DETECTED
36.	03-08-2023	64.97	27.61	20.13	24.86	0.91	1.59	NOT DETECTED
37.	07-08-2023	74.65	30.14	22.97	26.49	0.95	2.16	NOT DETECTED
38.	10-08-2023	71.59	28.7	21.38	23.75	0.82	1.91	NOT DETECTED
39.	14-08-2023	87.64	31.85	24.73	28.05	0.97	2.48	NOT DETECTED
40.	17-08-2023	89.62	38.61	31.28	37.82	1.13	4.73	NOT DETECTED
41.	21-08-2023	81.47	32.57	28.82	33.67	1.04	3.84	NOT DETECTED
42.	24-08-2023	76.73	35.88	30.31	36.47	1.1	4.24	NOT DETECTED
43.	28-08-2023	87.46	30.93	26.42	31.28	0.95	2.38	NOT DETECTED
44.	31-08-2023	82.15	33.73	28.28	34.65	1.00	3.55	NOT DETECTED
45.	04-09-2023	75.62	28.36	24.71	27.35	0.73	2.84	NOT DETECTED
46.	07-09-2023	78.57	31.82	25.61	29.13	0.85	3.15	NOT DETECTED
47.	11-09-2023	83.16	34.77	28.45	32.81	0.92	3.78	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
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	HC µg/m ³	Benzene µg/m ³
48.	14-09-2023	80.58	32.19	27.31	31.42	0.71	3.52	NOT DETECTED
49.	18-09-2023	67.33	26.42	21.54	24.77	0.53	1.38	NOT DETECTED
50.	21-09-2023	74.92	29.71	25.64	29.13	0.75	2.04	NOT DETECTED
51.	25-09-2023	70.74	27.25	23.58	26.83	0.63	1.84	NOT DETECTED
52.	28-09-2023	77.28	31.82	26.16	30.32	0.91	3.11	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
1.	03-04-2023	80.47	37.25	29.74	34.28	1.14	--	NOT DETECTED
2.	06-04-2023	77.92	45.27	39.16	42.78	0.94	3.16	NOT DETECTED
3.	10-04-2023	86.74	35.83	31.58	38.64	0.91	2.44	NOT DETECTED
4.	13-04-2023	81.39	46.93	41.11	48.83	1.17	5.12	NOT DETECTED
5.	17-04-2023	88.26	36.34	34.26	37.56	1.12	3.73	NOT DETECTED
6.	20-04-2023	79.39	38.15	30.16	34.92	0.93	1.97	NOT DETECTED
7.	24-04-2023	84.82	44.79	36.81	39.14	1.00	4.16	NOT DETECTED
8.	27-04-2023	87.13	39.36	33.43	36.36	0.98	3.37	NOT DETECTED
9.	01-05-2023	77.48	42.53	33.48	39.64	1.17	4.62	NOT DETECTED
10.	04-05-2023	83.7	38.65	29.29	32.48	1	3.58	NOT DETECTED
11.	08-05-2023	79.46	48.49	36.82	43.76	1.23	5.95	NOT DETECTED
12.	11-05-2023	73.19	44.76	34.03	39.71	1.15	5.13	NOT DETECTED
13.	15-05-2023	86.79	41.37	27.42	33.91	1.1	3.82	NOT DETECTED
14.	18-05-2023	80.48	46.42	37.58	41.36	1.17	4.79	NOT DETECTED
15.	22-05-2023	76.51	40.51	31.49	36.15	1.15	3.67	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
16.	25-05-2023	81.49	38.13	28.67	33.26	1.12	4.18	NOT DETECTED
17.	29-05-2023	78.41	35.48	25.15	29.69	1	3.64	NOT DETECTED
18.	01-06-2023	87.48	44.85	31.36	38.57	1	5.23	NOT DETECTED
19.	05-06-2023	83.96	46.41	36.74	43.55	0.8	5.78	NOT DETECTED
20.	08-06-2023	87.52	40.78	29.65	36.28	0.75	4.58	NOT DETECTED
21.	12-06-2023	76.89	36.13	26.25	32.19	0.5	4.02	NOT DETECTED
22.	15-06-2023	88.56	30.15	14.56	20.98	0.05	3.67	NOT DETECTED
23.	19-06-2023	60.52	24.14	12.51	17.54	0.02	3.1	NOT DETECTED
24.	22-06-2023	62.35	21.15	11.28	15.23	0.10	2.59	NOT DETECTED
25.	26-06-2023	55.14	18.53	9.25	12.89	0.1	2.96	NOT DETECTED
26.	29-06-2023	56.23	17.55	10.25	14.56	0.5	3.14	NOT DETECTED
27.	03-07-2023	61.28	23.57	18.76	22.35	0.03	--	NOT DETECTED
28.	06-07-2023	67.42	26.78	19.32	21.57	0.06	2.97	NOT DETECTED
29.	10-07-2023	58.37	21.72	15.48	18.43	ND	1.25	NOT DETECTED
30.	13-07-2023	64.19	25.91	18.43	21.88	ND	2.36	NOT DETECTED
31.	17-07-2023	55.1	19.58	14.46	17.85	ND	1.13	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
32.	20-07-2023	69.52	22.47	19.93	22.41	0.02	2.7	NOT DETECTED
33.	24-07-2023	73.38	25.79	21.31	25.05	0.1	3.16	NOT DETECTED
34.	27-07-2023	78.53	28.31	20.68	23.36	0.05	3.76	NOT DETECTED
35.	31-07-2023	65.27	24.65	17.21	21.1	0.03	2.57	NOT DETECTED
36.	03-08-2023	71.36	30.18	21.57	24.16	0.93	2.96	NOT DETECTED
37.	07-08-2023	78.65	32.38	22.96	26.02	0.97	3.36	NOT DETECTED
38.	10-08-2023	86.93	36.61	25.74	27.97	1	3.85	NOT DETECTED
39.	14-08-2023	81.27	34.06	23.58	26.19	0.95	3.04	NOT DETECTED
40.	17-08-2023	70.43	37.59	28.83	31.65	1.04	4.25	NOT DETECTED
41.	21-08-2023	76.53	38.83	31.25	35.61	1.1	4.63	NOT DETECTED
42.	24-08-2023	88.61	41.41	34.64	38.45	1.12	5.12	NOT DETECTED
43.	28-08-2023	82.37	37.49	30.91	33.78	1	4.73	NOT DETECTED
44.	31-08-2023	89.52	34.31	27.88	31.94	0.97	3.62	NOT DETECTED
45.	04-09-2023	78.35	31.56	23.73	26.38	1.00	4.37	NOT DETECTED
46.	07-09-2023	81.75	33.38	26.36	30.54	1.04	5.16	NOT DETECTED
47.	11-09-2023	76.38	30.61	22.95	25.17	1	4.58	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
48.	14-09-2023	83.16	34.65	26.79	30.98	1.05	5.05	NOT DETECTED
49.	18-09-2023	72.48	27.89	21.56	24.35	0.92	3.13	NOT DETECTED
50.	21-09-2023	76.51	30.35	24.66	27.42	1	3.37	NOT DETECTED
51.	25-09-2023	81.49	32.78	27.9	31.67	1.05	4.26	NOT DETECTED
52.	28-09-2023	85.65	36.27	31.52	34.66	1.1	4.75	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
1.	03-04-2023	81.59	32.37	12.74	18.52	0.47	--	NOT DETECTED
2.	06-04-2023	72.67	26.17	16.53	24.87	1.00	3.19	NOT DETECTED
3.	10-04-2023	79.71	28.64	11.77	15.14	0.69	3.47	NOT DETECTED
4.	13-04-2023	85.43	31.38	15.94	19.26	0.56	1.63	NOT DETECTED
5.	17-04-2023	74.71	24.15	10.68	14.83	0.45	1.29	NOT DETECTED
6.	20-04-2023	89.12	34.78	18.34	23.18	0.74	4.02	NOT DETECTED
7.	24-04-2023	70.88	25.12	13.28	17.85	0.38	3.27	NOT DETECTED
8.	27-04-2023	76.59	23.37	11.25	15.92	0.49	1.76	NOT DETECTED
9.	01-05-2023	89.16	32.08	14.56	18.34	1.12	2.85	NOT DETECTED
10.	04-05-2023	73.45	36.51	21.13	26.12	0.85	4.16	NOT DETECTED
11.	08-05-2023	86.54	28.12	15.76	19.58	1.00	3.31	NOT DETECTED
12.	11-05-2023	82.61	31.28	20.12	25.74	0.92	5.03	NOT DETECTED
13.	15-05-2023	85.47	38.64	23.12	27.89	1.00	4.58	NOT DETECTED
14.	18-05-2023	82.73	29.24	15.48	21.95	0.95	2.84	NOT DETECTED
15.	22-05-2023	74.91	25.10	12.46	16.32	1.07	2.36	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
16.	25-05-2023	69.55	22.47	14.36	17.85	0.90	2.14	NOT DETECTED
17.	29-05-2023	76.82	28.53	11.34	15.62	1.10	3.64	NOT DETECTED
18.	01-06-2023	83.49	34.61	17.32	22.92	1.00	3.70	NOT DETECTED
19.	05-06-2023	86.37	31.79	14.37	17.42	0.95	3.42	NOT DETECTED
20.	08-06-2023	81.94	27.37	12.47	16.33	0.07	3.10	NOT DETECTED
21.	12-06-2023	85.65	29.48	15.89	18.62	0.05	2.68	NOT DETECTED
22.	15-06-2023	72.56	25.14	13.21	17.25	0.02	2.55	NOT DETECTED
23.	19-06-2023	52.12	20.15	10.25	15.23	0.04	3.14	NOT DETECTED
24.	22-06-2023	54.12	17.25	9.25	14.30	0.05	2.36	NOT DETECTED
25.	26-06-2023	48.53	15.23	8.25	12.78	0.02	2.05	NOT DETECTED
26.	29-06-2023	45.25	14.28	7.60	11.21	0.05	2.54	NOT DETECTED
27.	03-07-2023	49.42	18.68	11.42	14.37	NOT DETECTED	--	NOT DETECTED
28.	06-07-2023	54.31	21.63	7.48	10.31	NOT DETECTED	NOT DETECTED	NOT DETECTED
29.	10-07-2023	46.78	17.42	6.30	8.54	NOT DETECTED	NOT DETECTED	NOT DETECTED
30.	13-07-2023	40.32	14.69	5.87	8.13	NOT DETECTED	NOT DETECTED	NOT DETECTED
31.	17-07-2023	43.25	15.74	7.53	12.74	NOT DETECTED	NOT DETECTED	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
32.	20-07-2023	51.99	17.53	10.18	13.89	NOT DETECTED	NOT DETECTED	NOT DETECTED
33.	24-07-2023	57.47	21.71	13.52	17.85	NOT DETECTED	NOT DETECTED	NOT DETECTED
34.	27-07-2023	49.74	18.63	11.57	14.38	NOT DETECTED	NOT DETECTED	NOT DETECTED
35.	31-07-2023	55.39	20.95	14.42	18.61	NOT DETECTED	NOT DETECTED	NOT DETECTED
36.	03-08-2023	57.93	22.48	14.23	19.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
37.	07-08-2023	63.67	23.95	16.83	22.49	0.57	1.37	NOT DETECTED
38.	10-08-2023	69.72	25.65	19.70	25.18	0.84	1.95	NOT DETECTED
39.	14-08-2023	76.82	28.10	21.16	27.54	0.96	2.84	NOT DETECTED
40.	17-08-2023	88.54	31.79	18.28	23.93	0.73	3.16	NOT DETECTED
41.	21-08-2023	71.91	34.92	22.57	28.88	1.00	4.73	NOT DETECTED
42.	24-08-2023	76.48	37.63	25.91	31.45	1.13	5.28	NOT DETECTED
43.	28-08-2023	86.54	29.35	20.77	24.14	0.93	3.54	NOT DETECTED
44.	31-08-2023	81.38	26.59	17.24	23.45	0.81	3.12	NOT DETECTED
45.	04-09-2023	67.38	24.75	16.26	20.81	0.63	2.18	NOT DETECTED
46.	07-09-2023	73.26	27.42	18.91	23.74	0.74	2.65	NOT DETECTED
47.	11-09-2023	69.87	25.94	17.43	21.65	0.57	2.38	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
48.	14-09-2023	75.13	29.41	20.87	25.36	0.83	3.18	NOT DETECTED
49.	18-09-2023	63.69	21.83	14.27	18.50	0.41	1.86	NOT DETECTED
50.	21-09-2023	68.26	23.71	16.32	20.81	0.59	2.11	NOT DETECTED
51.	25-09-2023	72.47	24.60	17.91	22.53	0.80	2.87	NOT DETECTED
52.	28-09-2023	76.19	26.74	20.45	25.18	0.87	3.41	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
Apr-23								
1	Particulate Matter	mg/Nm ³	22.86	19.76	21.38	19.06	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	6.10	6.53	8.69	8.17	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	19.34	21.84	20.17	21.35	50	IS 11255 (Part - 7)
May-23								
1	Particulate Matter	mg/Nm ³	20.15	19.14	22.85	21.35	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	6.38	6.23	7.46	8.68	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.64	20.37	18.87	22.31	50	IS 11255 (Part - 7)
Jun-23								
1	Particulate Matter	mg/Nm ³	21.35	16.39	21.13	21.87	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	8.68	6.57	7.28	8.90	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	22.31	19.36	19.45	21.18	50	IS 11255 (Part - 7)
Jul-23								
1	Particulate Matter	mg/Nm ³	21.87	17.68	19.52	20.75	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	8.90	5.95	5.79	7.59	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.18	16.26	16.41	19.63	50	IS 11255 (Part - 7)

Continue...

Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
Aug-23								
1	Particulate Matter	mg/Nm ³	19.18	20.15	22.37	23.61	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	8.10	6.08	8.13	9.82	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	22.85	18.57	20.42	22.45	50	IS 11255 (Part - 7)
Sep-23								
1	Particulate Matter	mg/Nm ³	17.84	18.93	20.47	21.11	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.65	6	7.28	9.20	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.10	17.26	18.57	19.89	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Sr. No.	Parameter	Unit	D.G. Set-6, 7 & 8 (1250 KVA - CT2) Common Stack	D.G. Set-9 (1500 KVA - CT3)	D.G. Set-10 (1500 KVA - CT3)	D.G. Set-11 (1500 KVA - CT3)	GPCB LIMIT	Method of Test	
			Sep-23	Aug-23					
			22-09-2023	04-08-2023	04-08-2023	04-08-2023			
1	Particulate Matter	mg/Nm ³	25.48	18.42	20.81	19.32	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO ₂	ppm	9.96	15.27	17.65	15.75	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO _x	ppm	19.32	27.58	29.14	22.49	50	IS 11255 (Part - 7)	
4	Carbon Monoxide	mg/Nm ³	4.19	4.1	3.8	3.6	--	UERL/AIR/SOP/18	
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27	
Sr. No.	Parameter	Unit	D.G. Set-12 (1500 KVA) - CT4	D.G. Set-13 (1500 KVA) - CT4	D.G. Set-14 (1500 KVA) - CT4	D.G. Set-1 (500 KVA) - DG House - MPT	GPCB LIMIT	Method of Test	
			Aug-23						Dec-22
			05-08-2023	05-08-2023	05-08-2023	06-08-2023			
1	Particulate Matter	mg/Nm ³	24.39	27.83	21.95	22.74	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO ₂	ppm	9.65	9.96	9.34	8.58	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO _x	ppm	21.26	23.54	19.11	28.63	50	IS 11255 (Part - 7)	
4	Carbon Monoxide	mg/Nm ³	3.8	5.12	4.1	3.16	--	UERL/AIR/SOP/18	
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27	

Continue...

Sr. No.	Parameter	Unit	D.G. Set-2 (500 KVA) - DG House - MPT	D.G. Set-3 (500 KVA) - DG House - MPT	D.G. Set-4 (500 KVA) - DG House - MPT	D.G. Set-5 (500 KVA) - DG House - MPT	GPCB LIMIT	Method of Test
			Aug-23					
			06-08-2023	06-08-2023	06-08-2023	06-08-2023		
1	Particulate Matter	mg/Nm ³	26.35	23.74	28.53	22.61	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.26	9.89	9.48	8.48	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	30.41	29.38	29.61	26.54	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm ³	3.93	5.12	5.84	3.91	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

RESULTS OF ETP OUTLET WATER

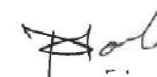
SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24		
			21-04-2023	29-05-2023	29-06-2023	25-07-2023	25-08-2023	14-09-2023		
1.	Colour	Pt. Co. Scale	50	40	50	40	50	50	100	IS 3025(Part 4)
2.	pH @ 27 ° C	--	7.41	6.74	7.26	7.36	7.44	7.52	6.5 to 8.5	APHA 23 rd Ed.,2017,4500-H ⁺ B
3.	Temperature	°C	30	31	30.5	30	30	30	40	IS 3025(Part 9)1984
4.	Total Suspended Solid	mg/L	22	24	26	24	18	32	100	APHA 23 rd Ed.,2017,2540 –D
5.	Total Dissolved Solids	mg/L	1106	732	804	810	822	840	2100	APHA 23 rd Ed.,2017,2540- C
6.	COD	mg/L	72.6	76.2	74.3	89.4	80.9	83.6	100	IS 3025(Part 58)2006
7.	BOD (3 days at 27 °C)	mg/L	20	23	25	27	24	23	30	IS 3025(Part 44)1993Amd.01
8.	Chloride (as Cl) ⁻	mg/L	480.9	332.5	420.1	411.5	391	337.3	600	IS 3025(PART 32) 1988
9.	Oil & Grease	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	10	IS 3025(Part39)1991, Amd. 2
10.	Sulphate (as SO ₄)	mg/L	102	43.3	40.2	36.6	42.2	46.4	1000	IS 3025(Part 24)1986
11.	Ammonical Nitrogen	mg/L	22.2	28.4	24.2	22.8	20.6	28.8	50	IS 3025(Part 34)1988,
12.	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)1992, Amd.2
13.	Copper as Cu	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	3	IS 3025(Part 42)1992amd.01,
14.	Lead as Pb	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	0.1	APHA 23 rd Ed.,2017,3111-B

Continue...

SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24		
			21-04-2023	29-05-2023	29-06-2023	25-07-2023	25-08-2023	14-09-2023		
15.	Sulphide as S	mg/L	0.62	BDL	BDL	BDL	BDL	BDL	2	APHA 23 rd Ed.,2017,4500 S ⁻² F
16.	Cadmium as Cd	mg/L	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	2	APHA 23 rd Ed.,2017,3111-B
17.	Fluoride as F	mg/L	1.03	0.82	0.94	0.86	0.74	0.66	2	APHA 23 rd Ed.,2017,4500 F, D
18.	Residual Chlorine	mg/L	0.74	0.88	0.78	0.64	0.94	0.82	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B
19.	Percent Sodium	%	48.51	48.05	46.74	45.72	46.93	46.94	60	By Calculation
20.	Sodium Absorption ratio	--	3.51	3.09	2.67	2.86	2.64	2.61	26	By Calculation



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
1.	02-10-2023	84.39	36.85	28.57	32.39	0.92	--	NOT DETECTED
2.	05-10-2023	80.25	35.79	31.12	34.85	1.06	4.74	NOT DETECTED
3.	09-10-2023	85.20	37.85	32.02	35.76	0.97	4.29	NOT DETECTED
4.	12-10-2023	79.36	35.13	29.41	33.64	1.00	4.57	NOT DETECTED
5.	16-10-2023	83.56	38.10	31.54	36.83	1.05	4.87	NOT DETECTED
6.	19-10-2023	84.84	34.37	28.59	32.16	0.95	4.74	NOT DETECTED
7.	23-10-2023	80.93	36.73	30.16	35.74	1.00	4.98	NOT DETECTED
8.	26-10-2023	83.79	33.91	26.84	31.83	0.94	4.52	NOT DETECTED
9.	30-10-2023	85.47	36.94	27.89	31.25	1.00	4.23	NOT DETECTED
10.	02-11-2023	80.12	34.23	26.96	31.28	1.00	5.13	NOT DETECTED
11.	06-11-2023	83.51	36.58	28.42	33.88	1.05	5.25	NOT DETECTED
12.	09-11-2023	81.33	35.05	26.13	30.97	1.02	4.86	NOT DETECTED
13.	13-11-2023	78.49	33.64	24.85	29.60	0.97	4.53	NOT DETECTED
14.	16-11-2023	80.94	35.26	26.62	31.78	1.00	4.76	NOT DETECTED
15.	20-11-2023	84.63	37.89	28.76	33.52	1.04	5.29	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
16.	23-11-2023	81.76	35.25	27.10	31.49	1.00	4.88	NOT DETECTED
17.	27-11-2023	74.68	32.09	24.95	29.18	0.95	4.49	NOT DETECTED
18.	30-11-2023	76.29	34.41	26.37	32.51	0.98	4.64	NOT DETECTED
19.	02-12-2023	78.36	32.19	25.75	30.21	1.11	5.10	NOT DETECTED
20.	06-12-2023	80.96	34.52	27.13	31.98	1.14	5.26	NOT DETECTED
21.	09-12-2023	83.56	36.91	30.6	34.69	1.16	5.59	NOT DETECTED
22.	13-12-2023	81.10	34.31	28.74	32.58	1.13	5.42	NOT DETECTED
23.	16-12-2023	83.92	36.42	29.59	32.05	1.15	5.79	NOT DETECTED
24.	20-12-2023	80.46	33.87	26.43	30.91	1.12	5.62	NOT DETECTED
25.	23-12-2023	82.63	35.29	27.55	32.4	1.14	5.92	NOT DETECTED
26.	27-12-2023	84.10	37.33	29.15	34.62	1.16	6.12	NOT DETECTED
27.	01-01-2024	80.74	37.29	30.74	35.62	1.17	--	NOT DETECTED
28.	04-01-2024	83.15	35.61	27.42	31.81	1.14	5.35	NOT DETECTED
29.	08-01-2024	81.49	32.27	26.12	30.11	1.12	5.2	NOT DETECTED
30.	11-01-2024	84.56	34.2	28.62	32.54	1.15	5.26	NOT DETECTED
31.	15-01-2024	80.77	31.63	25.91	30.73	1.12	4.97	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
32.	18-01-2024	84.26	35.27	30.46	35.67	1.18	5.42	NOT DETECTED
33.	22-01-2024	82.52	32.84	28.71	33.41	1.16	5.36	NOT DETECTED
34.	25-01-2024	83.79	36.41	31.11	36.07	1.20	5.74	NOT DETECTED
35.	29-01-2024	84.57	34.62	29.88	34.28	1.17	5.52	NOT DETECTED
36.	01-02-2024	83.55	35.07	32.23	36.14	1.20	5.94	NOT DETECTED
37.	05-02-2024	80.49	33.84	29.87	34.52	1.16	5.62	NOT DETECTED
38.	08-02-2024	82.62	31.29	31.41	35.86	1.15	5.77	NOT DETECTED
39.	12-02-2024	77.21	29.74	28.95	32.72	1.12	5.41	NOT DETECTED
40.	15-02-2024	80.73	31.82	29.38	33.64	1.16	5.59	NOT DETECTED
41.	19-02-2024	84.65	34.83	31.26	36.10	1.22	5.88	NOT DETECTED
42.	22-02-2024	79.19	32.5	27.89	32.76	1.19	5.34	NOT DETECTED
43.	26-02-2024	76.53	30.48	27.15	32.91	1.13	5.13	NOT DETECTED
44.	29-02-2024	81.92	33.46	29.21	33.89	1.17	5.47	NOT DETECTED
45.	04-03-2024	83.38	33.56	29.13	34.82	1.16	5.27	NOT DETECTED
46.	07-03-2024	80.63	29.86	27.67	31.90	1.15	4.96	NOT DETECTED
47.	11-03-2024	73.85	28.76	24.91	29.74	1.12	4.83	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
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	HC µg/m ³	Benzene µg/m ³
48.	14-03-2024	83.47	32.25	28.83	32.38	1.17	5.31	NOT DETECTED
49.	18-03-2024	76.58	30.13	26.48	30.65	1.14	5.10	NOT DETECTED
50.	21-03-2024	79.62	33.78	28.85	33.27	1.11	5.25	NOT DETECTED
51.	25-03-2024	74.38	29.42	25.56	30.17	1.10	4.89	NOT DETECTED
52.	28-03-2024	77.81	32.39	28.12	31.84	1.15	5.13	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		Near Fire Station						
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	HC µg/m ³	Benzene µg/m ³
1.	02-10-2023	79.31	32.15	27.81	30.99	0.91	--	NOT DETECTED
2.	05-10-2023	83.28	33.51	26.94	32.54	0.87	3.46	NOT DETECTED
3.	09-10-2023	85.10	32.56	30.12	35.47	0.95	3.25	NOT DETECTED
4.	12-10-2023	78.14	35.73	28.15	33.37	1.00	3.34	NOT DETECTED
5.	16-10-2023	75.84	37.47	30.23	34.92	1.00	3.16	NOT DETECTED
6.	19-10-2023	79.62	34.59	28.53	32.57	1.04	3.47	NOT DETECTED
7.	23-10-2023	74.22	36.64	26.99	35.98	1.05	3.48	NOT DETECTED
8.	26-10-2023	81.26	33.38	28.85	33.47	0.93	3.26	NOT DETECTED
9.	30-10-2023	84.79	31.72	26.43	31.85	0.90	3.10	NOT DETECTED
10.	02-11-2023	80.53	34.36	26.58	33.63	0.95	3.58	NOT DETECTED
11.	06-11-2023	84.92	37.26	28.92	35.26	1.00	3.70	NOT DETECTED
12.	09-11-2023	83.46	36.52	27.86	34.10	0.97	3.64	NOT DETECTED
13.	13-11-2023	81.82	34.40	26.31	32.55	0.95	3.42	NOT DETECTED
14.	16-11-2023	78.63	33.16	25.47	30.41	0.90	3.30	NOT DETECTED
15.	20-11-2023	75.41	31.73	24.75	29.99	0.86	3.26	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
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	HC µg/m ³	Benzene µg/m ³
16.	23-11-2023	77.35	34.62	27.32	32.76	0.92	3.49	NOT DETECTED
17.	27-11-2023	72.86	30.91	24.59	29.74	0.85	3.15	NOT DETECTED
18.	30-11-2023	75.63	32.5	26.35	30.52	0.91	3.37	NOT DETECTED
19.	02-12-2023	75.36	30.59	25.12	30.94	0.84	3.51	NOT DETECTED
20.	06-12-2023	73.69	29.46	24.62	28.65	0.80	3.28	NOT DETECTED
21.	09-12-2023	78.25	31.62	26.35	31.26	0.88	3.60	NOT DETECTED
22.	13-12-2023	80.42	33.56	28.64	32.49	0.91	3.64	NOT DETECTED
23.	16-12-2023	84.30	34.89	29.44	34.71	0.94	3.70	NOT DETECTED
24.	20-12-2023	83.02	34.81	29.02	33.86	0.89	3.66	NOT DETECTED
25.	23-12-2023	80.15	32.41	27.52	32.48	0.80	3.47	NOT DETECTED
26.	27-12-2023	78.63	30.96	25.48	30.26	0.78	3.30	NOT DETECTED
27.	01-01-2024	76.51	29.18	25.69	29.37	0.81	--	NOT DETECTED
28.	04-01-2024	79.62	31.43	27.50	31.86	0.86	3.76	NOT DETECTED
29.	08-01-2024	81.59	33.52	28.97	32.06	0.89	3.89	NOT DETECTED
30.	11-01-2024	75.92	28.45	25.26	28.42	0.76	3.52	NOT DETECTED
31.	15-01-2024	77.57	30.91	26.48	30.29	0.78	3.67	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
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	HC µg/m ³	Benzene µg/m ³
32.	18-01-2024	79.65	32.46	28.54	32.11	0.85	3.76	NOT DETECTED
33.	22-01-2024	82.73	33.47	29.26	33.56	0.90	3.85	NOT DETECTED
34.	25-01-2024	78.26	30.55	26.42	30.64	0.82	3.71	NOT DETECTED
35.	29-01-2024	75.37	29.93	24.35	28.63	0.77	3.39	NOT DETECTED
36.	01-02-2024	78.32	28.61	26.35	28.94	0.75	3.53	NOT DETECTED
37.	05-02-2024	81.56	32.11	29.54	32.29	0.83	3.86	NOT DETECTED
38.	08-02-2024	79.48	30.26	28.09	31.74	0.78	3.47	NOT DETECTED
39.	12-02-2024	75.73	28.91	26.62	30.11	0.74	3.38	NOT DETECTED
40.	15-02-2024	72.58	27.73	25.42	29.59	0.7	3.24	NOT DETECTED
41.	19-02-2024	75.16	29.1	26.85	29.13	0.76	3.40	NOT DETECTED
42.	22-02-2024	80.29	32.46	30.13	33.40	0.81	3.81	NOT DETECTED
43.	26-02-2024	73.84	28.38	26.91	31.42	0.72	3.42	NOT DETECTED
44.	29-02-2024	76.52	30.21	28.79	32.47	0.79	3.68	NOT DETECTED
45.	04-03-2024	71.94	27.79	25.37	29.52	0.69	3.07	NOT DETECTED
46.	07-03-2024	74.35	29.84	28.12	32.57	0.73	3.15	NOT DETECTED
47.	11-03-2024	70.54	27.27	25.94	28.77	0.67	3.24	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
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	HC µg/m ³	Benzene µg/m ³
48.	14-03-2024	72.95	30.71	27.47	32.81	0.70	3.42	NOT DETECTED
49.	18-03-2024	79.13	32.47	24.81	28.67	0.75	3.68	NOT DETECTED
50.	21-03-2024	75.46	30.68	28.45	33.13	0.78	3.52	NOT DETECTED
51.	25-03-2024	77.93	32.57	25.89	29.93	0.72	3.40	NOT DETECTED
52.	28-03-2024	81.24	27.83	27.64	32.28	0.79	3.57	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
1.	02-10-2023	84.63	34.59	26.58	30.15	1.00	--	NOT DETECTED
2.	05-10-2023	82.39	32.65	25.97	29.76	0.97	3.86	NOT DETECTED
3.	09-10-2023	80.98	36.74	28.47	31.83	1.00	4.37	NOT DETECTED
4.	12-10-2023	76.84	34.10	30.26	33.94	1.05	4.50	NOT DETECTED
5.	16-10-2023	78.63	34.90	28.57	32.69	1.09	4.56	NOT DETECTED
6.	19-10-2023	85.70	36.85	29.98	32.46	1.10	4.10	NOT DETECTED
7.	23-10-2023	80.25	34.75	27.68	30.05	1.07	4.63	NOT DETECTED
8.	26-10-2023	84.64	32.39	26.14	29.65	1.03	4.21	NOT DETECTED
9.	30-10-2023	85.36	34.52	25.45	27.86	1.00	3.86	NOT DETECTED
10.	02-11-2023	82.26	35.65	28.27	32.18	0.99	4.13	NOT DETECTED
11.	06-11-2023	79.65	33.42	26.19	30.48	0.95	3.89	NOT DETECTED
12.	09-11-2023	83.16	36.48	29.62	33.55	1.02	4.35	NOT DETECTED
13.	13-11-2023	80.75	32.10	25.47	29.73	1.00	3.76	NOT DETECTED
14.	16-11-2023	82.92	36.83	28.24	31.92	1.05	4.50	NOT DETECTED
15.	20-11-2023	78.85	31.93	26.82	30.13	0.98	4.19	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
16.	23-11-2023	80.20	33.52	28.76	33.38	1.00	4.36	NOT DETECTED
17.	27-11-2023	73.86	31.49	24.84	28.40	0.92	3.76	NOT DETECTED
18.	30-11-2023	78.58	32.73	26.13	29.62	0.95	3.97	NOT DETECTED
19.	02-12-2023	76.35	31.84	25.13	30.58	0.95	3.95	NOT DETECTED
20.	06-12-2023	81.63	33.29	27.86	31.96	1.00	4.32	NOT DETECTED
21.	09-12-2023	78.91	32.10	25.32	31.42	0.98	4.12	NOT DETECTED
22.	13-12-2023	80.53	33.75	27.43	31.77	1.00	4.36	NOT DETECTED
23.	16-12-2023	83.62	35.46	29.31	33.72	1.03	4.59	NOT DETECTED
24.	20-12-2023	81.96	32.79	28.16	32.63	1.00	4.37	NOT DETECTED
25.	23-12-2023	83.67	34.99	29.92	34.59	1.06	4.46	NOT DETECTED
26.	27-12-2023	80.49	31.26	27.51	31.25	1.00	4.25	NOT DETECTED
27.	01-01-2024	82.22	34.59	29.14	34.49	1.08	--	NOT DETECTED
28.	04-01-2024	79.62	32.18	26.54	31.52	1.05	3.87	NOT DETECTED
29.	08-01-2024	84.61	35.62	30.43	34.72	1.10	4.06	NOT DETECTED
30.	11-01-2024	80.74	32.14	28.69	32.87	1.06	3.91	NOT DETECTED
31.	15-01-2024	82.90	34.82	29.31	34.09	1.09	3.98	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
32.	18-01-2024	77.29	31.71	26.84	31.27	1.00	3.74	NOT DETECTED
33.	22-01-2024	80.25	33.06	28.42	33.72	1.05	3.87	NOT DETECTED
34.	25-01-2024	84.36	35.13	30.21	34.43	1.11	4.26	NOT DETECTED
35.	29-01-2024	81.73	33.59	28.94	34.67	1.08	4.12	NOT DETECTED
36.	01-02-2024	80.96	33.31	28.42	33.21	1.12	4.25	NOT DETECTED
37.	05-02-2024	77.64	30.72	26.84	31.43	1.07	3.86	NOT DETECTED
38.	08-02-2024	81.29	32.88	29.13	34.57	1.15	4.12	NOT DETECTED
39.	12-02-2024	84.38	35.62	31.46	36.91	1.18	4.39	NOT DETECTED
40.	15-02-2024	82.05	33.73	29.85	34.56	1.12	4.30	NOT DETECTED
41.	19-02-2024	79.63	32.47	28.38	33.17	1.10	3.87	NOT DETECTED
42.	22-02-2024	75.15	30.26	26.92	31.60	1.06	3.75	NOT DETECTED
43.	26-02-2024	80.31	33.59	30.64	35.73	1.11	4.18	NOT DETECTED
44.	29-02-2024	77.39	31.47	28.73	33.42	1.08	3.91	NOT DETECTED
45.	04-03-2024	80.63	31.36	30.11	35.47	1.10	4.46	NOT DETECTED
46.	07-03-2024	76.27	29.84	28.35	32.73	1.04	4.15	NOT DETECTED
47.	11-03-2024	81.73	33.11	29.74	34.12	1.07	4.63	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
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	HC µg/m ³	Benzene µg/m ³
48.	14-03-2024	84.12	35.62	32.17	37.65	1.14	4.76	NOT DETECTED
49.	18-03-2024	80.93	32.19	30.42	35.34	1.10	4.32	NOT DETECTED
50.	21-03-2024	84.31	33.65	33.47	38.54	1.13	4.19	NOT DETECTED
51.	25-03-2024	82.17	31.74	30.85	38.42	1.08	4.35	NOT DETECTED
52.	28-03-2024	86.42	34.17	32.75	36.13	1.12	4.64	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
1.	02-10-2023	71.26	28.95	21.30	24.58	0.75	--	NOT DETECTED
2.	05-10-2023	68.79	26.35	20.57	23.97	0.70	2.56	NOT DETECTED
3.	09-10-2023	73.24	26.36	20.75	25.62	0.68	2.87	NOT DETECTED
4.	12-10-2023	76.48	29.60	22.42	27.25	0.70	2.74	NOT DETECTED
5.	16-10-2023	81.63	30.12	21.87	25.64	0.80	2.97	NOT DETECTED
6.	19-10-2023	78.42	28.79	23.55	28.10	0.77	2.87	NOT DETECTED
7.	23-10-2023	75.11	25.38	20.32	25.86	0.71	2.58	NOT DETECTED
8.	26-10-2023	80.65	29.81	22.58	26.84	0.78	3.10	NOT DETECTED
9.	30-10-2023	77.26	27.44	22.93	26.76	0.75	2.89	NOT DETECTED
10.	02-11-2023	74.17	29.55	23.31	28.29	0.78	2.60	NOT DETECTED
11.	06-11-2023	72.35	27.42	22.50	26.95	0.72	2.45	NOT DETECTED
12.	09-11-2023	75.67	29.93	24.82	28.43	0.80	2.76	NOT DETECTED
13.	13-11-2023	78.15	31.48	25.63	30.15	0.85	2.85	NOT DETECTED
14.	16-11-2023	74.51	29.20	23.26	28.73	0.81	2.65	NOT DETECTED
15.	20-11-2023	72.88	27.41	21.85	26.38	0.76	2.46	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
16.	23-11-2023	75.63	30.19	24.48	29.83	0.80	2.71	NOT DETECTED
17.	27-11-2023	70.11	26.54	21.10	26.55	0.72	2.40	NOT DETECTED
18.	30-11-2023	73.26	28.79	23.92	28.37	0.76	2.53	NOT DETECTED
19.	04-12-2023	72.47	27.91	21.82	25.73	0.70	2.39	NOT DETECTED
20.	07-12-2023	76.29	30.31	23.58	28.19	0.75	2.45	NOT DETECTED
21.	11-12-2023	80.53	30.95	24.04	28.97	0.81	2.61	NOT DETECTED
22.	14-12-2023	82.65	31.10	25.31	30.26	0.82	2.78	NOT DETECTED
23.	18-12-2023	78.71	28.27	23.98	28.21	0.79	2.65	NOT DETECTED
24.	21-12-2023	75.20	27.52	21.93	25.67	0.72	2.58	NOT DETECTED
25.	25-12-2023	68.93	26.69	20.86	24.79	0.69	2.36	NOT DETECTED
26.	28-12-2023	71.38	28.61	23.13	28.45	0.73	2.51	NOT DETECTED
27.	01-01-2024	74.54	30.13	22.46	26.21	0.79	--	NOT DETECTED
28.	04-01-2024	77.37	32.59	25.03	29.17	0.84	3.12	NOT DETECTED
29.	08-01-2024	75.19	31.63	23.84	26.96	0.80	2.94	NOT DETECTED
30.	11-01-2024	72.84	28.16	21.69	25.32	0.74	2.8	NOT DETECTED
31.	15-01-2024	76.25	30.54	24.98	28.73	0.83	2.89	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
32.	18-01-2024	69.98	28.63	21.00	25.37	0.73	2.76	NOT DETECTED
33.	22-01-2024	67.37	27.57	20.69	24.15	0.70	2.62	NOT DETECTED
34.	25-01-2024	71.83	30.49	21.76	26.33	0.74	2.78	NOT DETECTED
35.	29-01-2024	73.24	32.73	23.54	28.16	0.77	2.82	NOT DETECTED
36.	01-02-2024	76.57	32.81	23.12	27.37	0.79	2.98	NOT DETECTED
37.	05-02-2024	73.16	30.26	21.68	25.42	0.74	2.86	NOT DETECTED
38.	08-02-2024	70.62	28.96	20.21	24.38	0.69	2.71	NOT DETECTED
39.	12-02-2024	75.84	30.42	22.38	26.71	0.77	2.88	NOT DETECTED
40.	15-02-2024	72.68	29.82	21.45	24.60	0.69	2.64	NOT DETECTED
41.	19-02-2024	66.43	27.19	19.87	22.59	0.68	2.51	NOT DETECTED
42.	22-02-2024	69.15	28.79	20.62	23.10	0.70	2.69	NOT DETECTED
43.	26-02-2024	73.54	31.56	22.84	26.62	0.79	2.82	NOT DETECTED
44.	29-02-2024	70.69	30.11	20.03	24.27	0.72	2.73	NOT DETECTED
45.	04-03-2024	67.50	28.42	20.84	24.15	0.60	2.69	NOT DETECTED
46.	07-03-2024	65.84	25.73	19.87	22.58	0.68	2.45	NOT DETECTED
47.	11-03-2024	63.95	26.45	22.27	26.42	0.60	2.41	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
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	HC µg/m ³	Benzene µg/m ³
48.	14-03-2024	67.35	29.13	20.57	24.48	0.65	2.68	NOT DETECTED
49.	18-03-2024	69.54	30.26	22.85	25.92	0.59	2.74	NOT DETECTED
50.	21-03-2024	74.13	27.41	23.36	26.10	0.70	2.85	NOT DETECTED
51.	25-03-2024	70.54	25.95	22.48	24.65	0.67	2.53	NOT DETECTED
52.	28-03-2024	65.48	27.30	19.84	23.39	0.61	2.49	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)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		CT-4 RMU-1						
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	HC µg/m ³	Benzene µg/m ³
1.	02-11-2023	76.42	28.27	23.65	28.37	0.90	4.26	NOT DETECTED
2.	06-11-2023	72.59	26.92	21.37	26.55	0.84	4.05	NOT DETECTED
3.	09-11-2023	67.73	30.76	24.68	29.81	1.00	4.38	NOT DETECTED
4.	13-11-2023	74.25	33.13	26.72	31.64	1.05	4.76	NOT DETECTED
5.	16-11-2023	87.13	28.64	23.13	28.72	0.95	4.52	NOT DETECTED
6.	20-11-2023	84.25	26.49	22.51	26.94	0.88	4.36	NOT DETECTED
7.	23-11-2023	82.64	25.20	21.35	25.46	0.85	4.14	NOT DETECTED
8.	27-11-2023	76.37	23.58	18.96	23.89	0.76	3.96	NOT DETECTED
9.	04-12-2023	82.75	30.41	25.13	29.85	0.94	4.62	NOT DETECTED
10.	07-12-2023	78.38	27.53	22.96	25.27	0.82	4.41	NOT DETECTED
11.	11-12-2023	80.16	29.37	25.12	28.76	0.86	4.73	NOT DETECTED
12.	14-12-2023	84.48	33.81	27.64	32.49	0.98	4.89	NOT DETECTED
13.	18-12-2023	82.31	31.26	24.94	28.51	0.90	4.75	NOT DETECTED
14.	21-12-2023	76.47	27.83	23.46	27.25	0.81	4.52	NOT DETECTED

Continue...

Name of Location		CT-4 RMU-1						
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	HC µg/m ³	Benzene µg/m ³
15.	25-12-2023	73.59	24.57	20.13	24.81	0.74	4.36	NOT DETECTED
16.	28-12-2023	79.11	29.32	22.53	26.76	0.79	4.48	NOT DETECTED
17.	01-01-2024	81.42	31.86	24.28	28.17	0.97	--	NOT DETECTED
18.	04-01-2024	84.26	34.48	26.84	31.46	1.00	4.82	NOT DETECTED
19.	08-01-2024	79.82	28.91	22.86	27.52	0.92	4.53	NOT DETECTED
20.	11-01-2024	82.57	31.49	25.22	29.35	1.00	4.68	NOT DETECTED
21.	15-01-2024	78.84	27.59	22.12	26.89	0.87	4.41	NOT DETECTED
22.	18-01-2024	80.64	29.17	23.79	27.42	0.91	4.65	NOT DETECTED
23.	22-01-2024	83.49	32.72	26.31	30.58	1.05	4.73	NOT DETECTED
24.	25-01-2024	85.27	35.49	29.32	33.24	1.10	4.82	NOT DETECTED
25.	29-01-2024	80.65	30.16	24.05	29.13	0.95	4.70	NOT DETECTED
26.	01-02-2024	78.62	28.96	22.10	26.93	0.82	4.45	NOT DETECTED
27.	05-02-2024	82.36	30.19	24.56	29.31	0.93	4.62	NOT DETECTED
28.	08-02-2024	84.16	32.46	27.84	33.46	0.97	4.87	NOT DETECTED
29.	12-02-2024	80.43	31.46	25.63	29.70	0.89	4.70	NOT DETECTED
30.	15-02-2024	77.29	29.66	22.38	27.62	0.76	4.62	NOT DETECTED

Continue...

Name of Location		CT-4 RMU-1						
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	HC µg/m ³	Benzene µg/m ³
31.	19-02-2024	75.73	27.43	20.96	25.17	0.70	4.39	NOT DETECTED
32.	22-02-2024	79.37	30.11	22.16	26.93	0.78	4.53	NOT DETECTED
33.	26-02-2024	82.64	32.83	25.31	29.62	0.86	4.81	NOT DETECTED
34.	29-02-2024	79.55	29.89	23.72	27.53	0.77	4.68	NOT DETECTED
35.	04-03-2024	85.13	34.25	25.81	28.47	0.79	4.85	NOT DETECTED
36.	07-03-2024	80.74	31.48	22.57	26.35	0.64	4.71	NOT DETECTED
37.	11-03-2024	78.93	28.52	21.76	26.11	0.57	4.52	NOT DETECTED
38.	14-03-2024	75.38	30.86	23.29	27.46	0.52	4.68	NOT DETECTED
39.	18-03-2024	81.52	33.47	24.92	29.53	0.76	4.82	NOT DETECTED
40.	21-03-2024	86.14	37.35	27.11	32.42	0.82	4.97	NOT DETECTED
41.	25-03-2024	83.74	34.68	25.24	30.48	0.73	4.72	NOT DETECTED
42.	28-03-2024	86.85	31.57	26.86	29.62	0.87	4.82	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

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QCI-NABET Accredited EIA & GW
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001 : 2015
Certified Company

ISO 45001 : 2018
Certified Company



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 (PM2.5)	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

ETP Water

Sr. No.	Test Parameter	Unit	MDL
1	Colour	Pt. Co. Scale	5
2	pH @ 27 ° C	--	2
3	Temperature	OC	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 OC)	mg/L	1
8	Chloride (as Cl) -	mg/L	1
9	Oil & Grease	mg/L	2
10	Sulphate (as SO4)	mg/L	1
11	Ammonical Nitrogen	mg/L	2
12	Phenolic Compound	mg/L	0.1
13	Copper as Cu	mg/L	0.05
14	Lead as Pb	mg/L	0.01
15	Sulphide as S	mg/L	0.05
16	Cadmium as Cd	mg/L	0.003
17	Fluoride as F	mg/L	0.2
18	Residual Chlorine	mg/L	0.1
19	Percent Sodium	%	--
20	Sodium Absorption ratio	--	--