

APSEZL/EnvCell/2023-24/048

Date: 11.09.2023

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, 2023 for **Adani Ports and SEZ Limited (Multi Product SEZ)**.

Ref: 1. AWH - 122250 Date of issue 20.10.2022 Valid till 21.08.2027

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 SEZ Limited (Multi Product SEZ), Village & Taluka: Mundra, Dist. Kutch - 370421** for the financial year ending 31st March 2023.

Thanking you,

For **Adani Ports and Special Economic Zone Ltd. (Multi Product SEZ)****Authorized Signatory**

Encl: As above.

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

⑧^{14/09/2023}
Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

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

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Environment Statement for 2022-23 for M/s Adani Ports and SEZ Limited
(Multi Product SEZ)

(PCB ID: 31463)

FORM V
(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2023

PART – A

- (i) Name and address of the Owner/
Occupier of the Industry Operation
or Process : Mr. Sujalkumar Shah
CEO – Mundra & Tuna Port
Adani Ports and SEZ Limited
4th Floor, Adani House,
Mundra, Kutch – 370421.
Ph No. (02838) 255000
- (ii) Industry Category : Red-Large
Primary (STC Code)
Secondary (STC Code) : NA
NA
- (iii) Production Capacity : Multi Product SEZ for 8481.27 Hacters Area:
(Phase-I)
- (iv) Year of Establishment : 2012
- (v) Date of last Environment
Statement submitted : 17/06/2022

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PART - B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	Average
Process	Nil
*Domestic (Total water)	152.57 m ³ /Day

*Domestic included horticulture/gardening used water

Name of Products	Process Water Consumption per unit of Product Output	
	During the current financial year (2021-22)	During the current financial year (2022-23)
Multi Product SEZ	Nil	Nil

** Unit does not go under any manufacturing process, hence there is no any water consumption for industrial purpose. The unit involve for Processing-Non Processing Zones, Ware Housing Zones, Road & Rail Network (trunk as well as internal), Bridges and Culverts, IT Communications, electric network, effluent collection network, utilities and supporting infrastructure, Sewage Treatment Plant (150 KL/Day), Two Nos. of D.G. Sets (750 & 500 KVA) airstrip, etc. within Multi Product SEZ. Individual member industries developed within SEZ area has already been granted their individual Consent to Establish and Consent to Operate from SPCB as applicable.

(ii) Raw Material Consumption

Name of Raw Material*	Name of Products	Consumption of Raw Material per Unit of output	
		During the current financial year (2021-22)	During the current financial year (2022-23)
--	Multi Product SEZ	--	--

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

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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) Domestic Waste Water	pH	--	pH	7.29	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. STP having 150 KLD capacity. 2. 30968 KL treated water discharged during April 2022 – March 2023, was utilized for horticulture / greenbelt purpose within premises. 3. Analysis reports of treated water are enclosed as Annexure – 2 .
	Total Suspended Solids	1.93	Total Suspended Solids (mg/l)	22.69	
	BOD (5 Days @ 20 °C)	1.40	BOD (5 Days @ 20 °C) (mg/l)	16.50	
	Residual Chlorine	--	Residual Chlorine (mg/l)	0.76	
	Fecal Coliform	--	Fecal Coliform MPN (INDEX/100 mL)	52.35	
(b) Air (DG Stack 750 KVA & 500 KVA)	Parameters	Avg. Mass Kg/Day	Parameters	Avg	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. DG sets having capacities 750 & 500 KVA is provided as a standby power source and used during power failure. Analysis reports of stack monitoring are enclosed as Annexure – 2 . 2. The ambient air quality monitoring is being done regularly (twice a week) through NABL and MoEF&CC recognized laboratory namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi. 3. Analysis reports of
	Particulate Matter (PM)	Negligible	Particulate Matter (mg/Nm ³)	18.12	
	Sulphur Dioxide (SO ₂)	Negligible	Sulphur Dioxide (PPM)	7.14	
	Nitrogen Oxide (NO _x)	Negligible	Nitrogen Oxide (NO _x) (PPM)	26.73	

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					ambient air quality monitoring are enclosed as Annexure - 2
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Unit does not go under any manufacturing process.

Details of treated water outlet quantity for the year 2022-23 are enclosed as **Annexure - 1**.

PART - D

Hazardous Wastes

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

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
(a) From Process	Nil	Nil
(b) From Pollution Control facilities	Nil	Nil

***Note: Quantity shown in Annexure - 3 is waste (hazardous as well as non-hazardous) generated as well as disposed from entire Adani Ports and SEZ Limited.**

PART - E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)
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	During the previous financial year (2021-22)	During the current financial year (2022-23)
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities		
(C-1)Quantity recycled or reutilized within the unit		Details is Attached as Annexure-3
(C-2) Sold		
(C-3) Disposed		

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 though his past learnings and employed local women staff mainly to segregate waste.
- Wet Waste is being managed through Organic Waste Composting Facility and Biogas generation.
- Installed 02 no's 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:
 - APSEZ pasted stickers spreading awareness among their zone as single use plastic are prohibited now.
 - Awareness sessions organized among department and contract workers.

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- Made shop keepers and canteen owners to stop providing plastic carry bags to carry the material.
 - Confirms to stop usage of plastic cups to serve tea and water pouches within the premises of APSEZ.
 - Regular supervision by Team Members at Port Canteens and Shops townships for verification of prohibition of plastic.
 - Defined 3 Levels to achieve single use plastic free APSEZ.
-
- APSEZ has awarded with Zero Waste to Landfill Management System (ZWTL MS 2020) from TÜV Rheinland India Pvt. Ltd (attached as **Annexure – 4**).
 - 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.

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PART – G

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

Energy Savings (APSEZ)

- Installed 8.8 MW roof top solar generating plant at various locations in SEZ in Mundra which is generated nearly 9.43 million units in FY 2022-23 and utilized the renewable source of energy for captive use this reduced the emission of CO2 by nearly 7735 tCo2e.
- APSEZ has reduced total energy consumption of 129760 KWH/ Year units which reduce the emission of CO2 by nearly 103.93 tCo2e by various initiatives i.e. replacement of LED lights, high energy rating of AC, installation of new solar system etc.

Water Conservation:

- There are 8740 nos of water reducer have been installed in Residence Area and various offices.
- Waterless urinal have been placed in various offices.
- Modifications of flush tank have been added in water system of toilet area in Port User Buildings.
- ACMTPL: Sensor based automatic On/Off pump as per Water level by installing water level controller at building and RMU location.
- Re-routing of 1-KM water supply line to bypass water leakages inside utility drain.
- Automatic controlled water tap installed at wash basin inside CT4 building.
- Recollection of water provided for hydro testing through water.
- Water level sensor installed at 3rd Floor Building Toilet water tank to eliminate overflow of water and manual intervention.
- Treated Water utilization.
- 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

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PART - H

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

- Treated water from STP 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.
- In SEZ more than 145.88 ha. area is developed as greenbelt with samplings of more than 2.54 Lacs.
- 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 & NABL recognized laboratory (M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi).
- APSEZ Budget for environmental management measures (including horticulture) for the FY 2022-23 was to the tune of INR **1448.06** lakh out of which INR **1366.28** lakh was spent. Environment protection expenditure spent during the year 2022-23 is enclosed as **Annexure - 5**.
- 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: 11-09-2023

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

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ANNEXURE - 1

Water Consumption and Treated Wastewater Details (April'22 to March'23)

Month	Water Consumption (KL)		Treated Water (KL)
	Industrial	Domestic (Included horticulture used water)	Treated Sewage
Apr-22	1726	3260	2608
May-22	1986	3308	2646
Jun-22	2137	2724	2179
Jul-22	1952	3494	2795
Aug-22	2217	3503	2802
Sep-22	2157	2950	2360
Oct-22	1607	3673	2938
Nov-22	1189	3335	2668
Dec-22	457	2885	2308
Jan-23	479	2683	2146
Feb-23	796	3485	2788
Mar-23	276	3413	2730
Total	16979	38710	30968
Per Month	1415	3226	2581
Per Day	46.52	106.05	84.84

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ANNEXURE - 3
Waste Disposal Details, APSEZ, Mundra

Sr. No.	Waste Description	Disposal Method	Unit	Quantity 2021-22	Quantity 2022-23
Non-Hazardous:					
1.	Dry Waste (Recyclable waste-Metal, Wood, paper, plastic etc.)	Recycle (send to reg. recycler)/ Reuse (Used by Org.)	MT	3458.243	3779.70
2.	RDF (Non-Recyclable)	Co-processing at cement plant	MT	376.01	544.17
3.	STP Sludge	Reprocess (Manure)	MT	17	11.8
4.	Organic Waste (included food waste)	Reprocess & Recovery Manure/biogas	MT	851.51	897.82
5.	E-Waste	Recycle (send to reg. recycler)	MT	50	89.86
Hazardous:					
1.	Used Oil	Recycle (send to reg. recycler)	MT	370.58	131.99

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ANNEXURE - 4



Certificate

Standard: **Zero Waste to Landfill Management System
(ZWTL MS 2020)**

Certificate Holder: **Adani Ports and Special Economic Zone Limited
Mundra Port, Kutch - 370421,
Gujarat, India**

Scope: **Providing Port Facilities for Import and Export of
Bulk, Break Bulk, Liquid and Containerized Cargo,
its Storage and RORO Operation for Export of
Vehicles**

Validity: **This certificate is valid from 01-06-2021 until 31-05-2024
Subject to satisfactory annual surveillance audits.**

CERTIFICATE Certificate No. TUV/ZWLMS/2021/Adani Ports/0501

A handwritten signature in black ink, appearing to read "Yash".

New Delhi, 01-06-2021

TÜV Rheinland India Pvt. Ltd.
Office 610, 6th Floor, iThum
Tower, A-40, Sector-62,
Noida- 201301, India

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ANNEXURE – 5
Cost of Environmental Protection Measures of APSEZ, Mundra
F.Y. 2022-23

Sr. No.	Activity	Cost incurred (INR in Lacs)	Budgeted Cost (INR in Lacs)
		2022 - 23	2022 - 23
1.	Environmental Study / Audit and Consultancy	7.32	11.05
2.	Legal & Statutory Expenses	12.32	12
3.	Environmental Monitoring Services	15.32	33
4.	Hazardous / Non-Hazardous Waste Management & Disposal	104.035	127.72
5.	Environment Days Celebration and Advertisement / Business development	2.53	8.00
6.	Treatment and Disposal of Bio-Medical Waste	2.29	2.04
7.	Mangrove Plantation, Monitoring & Conservation	35.0	35.0
8.	Other Horticulture Expenses	956	979
9.	O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant)	141.33	164.46
10.	Expenditure of Environment Dept. (Apart from above head)	90.136	75.79
Total		1366.281	1448.06



"Half Yearly Environmental Monitoring Reports "

For,
adani
Ports and
Logistics

ANNEXURE - 2

M/S. ADANI PORTS & SEZ Limited.

Notified SEZ area, Tal. – Mundra, Dist. – Kutch – 370421.

Monitoring Period: April– 2022 to September - 2022

Submitted By



UniStar Environment & Research Labs Pvt. Ltd.

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



RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	PUB ADANI HOUSE STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Apr-22		May-22		Jun-22					
			12-04-2022	25-04-2022	10-05-2022	30-05-2022	15-06-2022	28-06-2022				
1.	pH @ 25 ° C	--	7.42	7.36	7.24	7.32	7.11	7.18	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	22	18	18	16	26	24	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	16	16	18	19	14	16	30	APHA 23 rd Ed,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.7	0.7	0.96	0.77	0.69	0.87	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	14	9	26	13	34	22	1000	IS 1622: 1981		

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RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	PUB ADANI HOUSE STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Jul-22		Aug-22		Sep-22					
			15-07-2022	21-07-2022	06-08-2022	26-08-2022	15-09-2022	26-09-2022				
1.	pH @ 25 ° C	--	7.29	7.39	7.23	7.36	7.54	7.39	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	22	26	24	24	26	28	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	17	14	16	19	20	18	30	APHA 23 rd Ed.,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.65	0.58	0.68	0.78	0.82	0.64	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	40	34	50	60	50	70	1000	IS 1622: 1981		



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

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.	07-04-2022	75.67	28.94	10.26	16.75	NOT DETECTED	2.12	NOT DETECTED
2.	08-04-2022	84.56	31.45	14.56	21.35	0.05	NOT DETECTED	NOT DETECTED
3.	11-04-2022	81.23	29.56	12.34	18.25	0.43	1.54	NOT DETECTED
4.	12-04-2022	79.23	34.55	17.20	23.45	0.20	1.00	NOT DETECTED
5.	18-04-2022	86.12	30.90	15.45	20.17	1.00	2.45	NOT DETECTED
6.	21-04-2022	81.45	28.75	13.45	21.23	0.25	NOT DETECTED	NOT DETECTED
7.	25-04-2022	88.34	34.62	16.21	25.67	0.04	1.67	NOT DETECTED
8.	28-04-2022	80.26	31.25	18.34	23.85	0.75	2.10	NOT DETECTED
9.	02-05-2022	84.24	30.25	14.56	21.34	1.00	3.15	NOT DETECTED
10.	05-05-2022	74.88	37.12	12.35	18.75	1.04	1.56	NOT DETECTED
11.	09-05-2022	80.12	32.45	17.34	23.92	1.00	2.85	NOT DETECTED
12.	12-05-2022	83.45	29.15	21.34	26.15	0.50	4.10	NOT DETECTED
13.	16-05-2022	78.15	27.94	18.45	24.55	0.80	3.35	NOT DETECTED
14.	18-05-2022	81.54	32.45	24.32	30.12	1.00	2.15	NOT DETECTED
15.	23-05-2022	86.54	29.15	20.17	27.13	1.10	4.15	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.	26-05-2022	88.73	31.24	23.45	28.21	1.00	2.45	NOT DETECTED
17.	30-05-2022	80.56	34.27	21.15	27.12	1.25	3.25	NOT DETECTED
18.	02-06-2022	76.85	34.56	18.76	25.44	1.00	2.15	NOT DETECTED
19.	06-06-2022	88.95	35.67	23.18	28.74	1.00	1.00	NOT DETECTED
20.	09-06-2022	70.23	24.56	11.24	18.95	1.20	3.12	NOT DETECTED
21.	13-06-2022	85.34	36.76	19.23	26.73	0.50	2.50	NOT DETECTED
22.	15-06-2022	89.12	33.56	21.23	27.45	1.00	3.41	NOT DETECTED
23.	20-06-2022	81.90	36.75	25.21	30.21	0.50	3.75	NOT DETECTED
24.	23-06-2022	76.85	28.75	22.44	28.75	1.00	4.00	NOT DETECTED
25.	27-06-2022	84.10	30.15	17.85	23.45	0.70	2.76	NOT DETECTED
26.	29-06-2022	88.23	34.21	20.24	26.19	0.50	2.00	NOT DETECTED
27.	04-07-2022	56.78	17.89	12.14	15.45	0.05	NOT DETECTED	NOT DETECTED
28.	07-07-2022	30.12	9.23	8.67	11.23	NOT DETECTED	NOT DETECTED	NOT DETECTED
29.	11-07-2022	37.68	12.45	7.23	8.24	NOT DETECTED	NOT DETECTED	NOT DETECTED
30.	14-07-2022	32.14	10.15	9.34	10.26	NOT DETECTED	NOT DETECTED	NOT DETECTED
31.	18-07-2022	35.67	11.23	6.78	8.35	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.	21-07-2022	32.45	9.85	8.24	10.21	NOT DETECTED	NOT DETECTED	NOT DETECTED
33.	25-07-2022	42.14	12.45	7.21	9.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
34.	28-07-2022	34.56	11.29	6.34	8.33	NOT DETECTED	NOT DETECTED	NOT DETECTED
35.	01-08-2022	68.99	28.59	11.28	24.28	1.18	4.39	NOT DETECTED
36.	04-08-2022	87.93	34.35	14.07	20.93	1.15	2.86	NOT DETECTED
37.	08-08-2022	76.37	36.30	21.69	27.64	1.25	3.82	NOT DETECTED
38.	11-08-2022	89.47	27.84	26.46	32.18	1.00	6.2	NOT DETECTED
39.	15-08-2022	84.17	29.49	16.30	22.32	0.94	4.85	NOT DETECTED
40.	18-08-2022	68.23	38.31	19.98	28.58	1.21	1.79	NOT DETECTED
41.	22-08-2022	72.17	26.40	27.38	36.73	1.09	5.83	NOT DETECTED
42.	25-08-2022	80.74	36.47	21.71	27.47	1.15	4.2	NOT DETECTED
43.	29-08-2022	84.19	39.74	23.31	31.38	1.00	2.05	NOT DETECTED
44.	01-09-2022	72.47	25.73	14.28	18.29	1.05	3.84	NOT DETECTED
45.	05-09-2022	85.39	31.37	16.72	24.47	1.00	3.17	NOT DETECTED
46.	08-09-2022	79.18	33.78	19.34	26.82	1.13	4.82	NOT DETECTED
47.	12-09-2022	69.68	26.39	24.73	28.02	1.16	5.38	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.	15-09-2022	74.18	25.47	22.86	28.63	1.06	5.93	NOT DETECTED
49.	19-09-2022	83.69	34.83	21.28	32.19	1.20	3.1	NOT DETECTED
50.	22-09-2022	81.32	24.49	24.75	30.92	1.00	3.69	NOT DETECTED
51.	26-09-2022	78.61	29.35	18.63	24.31	0.95	5.25	NOT DETECTED
52.	29-09-2022	80.74	36.50	27.62	36.58	1.15	3.93	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 Noise Level Monitoring

Location Name		PUB / Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		13-04-2022	02-05-2022	02-06-2022	05-07-2022	02-08-2022	01-09-2022
1	06:00 to 07:00	65.8	61.5	60.2	62.6	63.8	61.8
2	07:00 to 08:00	67.9	66.7	64.5	65.6	64.7	64.5
3	08:00 to 09:00	69.3	60.5	62.7	68.6	63.5	63.7
4	09:00 to 10:00	68.6	63.9	61.9	65.5	66.2	61.9
5	10:00 to 11:00	68.3	64.5	63.5	68.3	61.1	63
6	11:00 to 12:00	67.3	65.2	66.1	68.9	63.3	65.2
7	12:00 to 13:00	66.2	66.1	67.8	65.4	63.9	65.3
8	13:00 to 14:00	68.2	60.6	62.4	66.3	65.6	62.4
9	14:00 to 15:00	67.5	61.8	65.4	68.5	60.8	63.1
10	15:00 to 16:00	62.9	62.5	63.9	64.5	66.5	62.9
11	16:00 to 17:00	66.4	63.2	64.5	68.3	64.2	63.6
12	17:00 to 18:00	62.6	65.4	64.3	65.6	63.7	63.8
13	18:00 to 19:00	65.5	62.1	60.7	67.2	60.1	60.7
14	19:00 to 20:00	68.5	60.2	61.3	63.5	64	62.1
15	20:00 to 21:00	66.7	58.9	59.4	60.5	62.4	62.8
16	21:00 to 22:00	62.8	59.2	58.5	62.8	59.2	60.2
Day Time		<75 dB (A)					

Continue...

Location Name		PUB / Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		13-04-2022	02-05-2022	02-06-2022	05-07-2022	02-08-2022	01-09-2022
1	22:00 to 23:00	62.1	58.5	59.2	61.6	59.3	57.3
2	23:00 to 24:00	64.2	56.5	55.4	60.5	56.5	54.7
3	24:00 to 01:00	64.5	57.2	59.8	59.5	58.2	58.9
4	01:00 to 02:00	64.1	55.5	56.7	60.5	63.9	62.4
5	02:00 to 03:00	55.4	55.2	57.2	58.1	55.2	56.4
6	03:00 to 04:00	59.3	54.1	55.5	60.5	54.1	53.7
7	04:00 to 05:00	64.2	59.5	58.4	62.3	58.3	59.2
8	05:00 to 06:00	63.2	60.2	59.8	61.5	59.1	60.4

Night Time	<70 dB (A)
Test Method	IS: 9989 : 1981



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Monitoring Period: April - 2022 to September - 2022

Sr. No.	Parameter	Unit	Adani Hospital DG Set	GPCB LIMIT	Method of Test
			May-22		
			12-05-2022		
1	Particulate Matter	mg/Nm ³	17.65	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	6.78	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	25.14	50	IS 11255 (Part - 7)

Sr. No.	Parameter	Unit	WTP Nr CETP D.G.Set No. S-1 (380 KVA)	GPCB LIMIT	Method of Test
			Apr-22		
			23-04-2022		
1	Particulate Matter	mg/Nm ³	20.18	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	6.1	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	27.45	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Monitoring Period: April - 2022 to September - 2022

Sr. No.	Parameter	Unit	Adani House D.G.Set No. S-1 (750 KVA)	GPCB LIMIT	Method of Test
			Jun-22		
			22-06-2022		
1	Particulate Matter	mg/Nm ³	18.9	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	10.4	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.68	50	IS 11255 (Part - 7)

Sr. No.	Parameter	Unit	PUB Building D.G.Set No. S-1 (500 KVA)	GPCB LIMIT	Method of Test
			Sep-22		
			30-09-2022		
1	Particulate Matter	mg/Nm ³	16.24	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	6.48	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.36	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SAMUNDRA TOWNSHIP STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Apr-22		May-22		Jun-22					
			12-04-2022	25-04-2022	10-05-2022	30-05-2022	15-06-2022	28-06-2022				
1	pH @ 25 ° C	--	7.48	7.52	7.36	7.29	7.28	7.34	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2	Total Suspended Solids	mg/L	26	22	24	20	22	16	100	APHA 23 rd Ed.,2017,2540-D		
3	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	14	16	18	16	15	17	30	APHA 23 rd Ed,2017,5210-B 5-6		
4	Residual chlorine	mg/L	0.7	0.8	0.96	0.77	0.87	0.69	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5	Fecal Coliform	MPN Index/100ml	90	80	80	50	60	50	1000	IS 1622: 1981		

Continue...

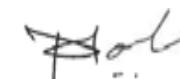
RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	SAMUNDRA TOWNSHIP STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Jul-22		Aug-22		Sep-22					
			15-07-2022	21-07-2022	06-08-2022	26-08-2022	15-09-2022	27-09-2022				
1	pH @ 25 ° C	--	7	7.24	7.18	7.25	7.38	7.41	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2	Total Suspended Solids	mg/L	20	28	24	22	24	26	100	APHA 23 rd Ed.,2017,2540-D		
3	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	15	18	18	19	20	19	30	APHA 23 rd Ed,2017,5210-B 5-6		
4	Residual chlorine	mg/L	0.72	0.65	0.72	0.68	0.72	0.75	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5	Fecal Coliform	MPN Index/100ml	50	80	34	60	50	40	1000	IS 1622: 1981		



Mr. Nilesh Patel

Sr. Chemist

Mr. Nitin Tandel

Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		SAMUDRA TOWNSHIP – STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	07-04-2022	72.6	21.45	9.12	16.78	NOT DETECTED
2.	08-04-2022	82.5	27.33	12.34	20.23	--
3.	11-04-2022	79.45	23.69	12.23	18.31	--
4.	12-04-2022	67.23	18.45	13.56	19.54	--
5.	18-04-2022	75.67	21.36	12.16	16.75	--
6.	21-04-2022	80.32	29.34	15.23	21.44	--
7.	25-04-2022	84.34	33.28	12.34	18.34	--
8.	28-04-2022	78.91	30.25	11.25	17.44	--
9.	02-05-2022	81.34	28.94	11.56	17.89	--
10.	05-05-2022	75.44	21.17	14.51	21.45	--
11.	09-05-2022	83.23	26.54	10.35	14.56	--
12.	12-05-2022	71.78	20.65	12.89	18.23	--
13.	16-05-2022	64.55	17.89	14.53	20.45	--
14.	18-05-2022	70.2	22.56	11.56	16.53	--
15.	23-05-2022	78.25	25	10.21	21.55	--
16.	26-05-2022	83.45	31.57	9.45	20.67	--

Continue...

Name of Location		SAMUDRA TOWNSHIP – STP					
Sr. No.	Date of Monitoring	Parameter with Results					
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	
17.	30-05-2022	75.16	23.54	10.56	15.83	--	
18.	02-06-2022	76.25	21.45	12.34	19.45	--	
19.	06-06-2022	80.2	26.78	11.68	15.68	--	
20.	09-06-2022	68.15	20.44	9.33	15.68	--	
21.	13-06-2022	67.42	22.51	12.37	19.25	--	
22.	15-06-2022	80.21	27.89	10.28	17.84	--	
23.	20-06-2022	72.46	22.34	14.38	21.45	--	
24.	23-06-2022	80.55	28.95	11.25	18.79	--	
25.	27-06-2022	62.39	21.54	8.56	15.44	--	
26.	29-06-2022	72.46	25.68	13.89	19.32	--	
27.	04-07-2022	45.23	13.46	8.12	11.25	NOT DETECTED	
28.	07-07-2022	21.34	8.43	4.56	7.23	--	
29.	11-07-2022	15.23	6.15	4.23	7.89	--	
30.	14-07-2022	22.36	9.45	7.12	9.17	--	
31.	18-07-2022	30.12	11.34	5.23	7.12	--	
32.	21-07-2022	40.23	15.34	8.2	10.23	--	
33.	25-07-2022	44.56	14.21	5.45	8.25	--	

Continue...

Name of Location		SAMUDRA TOWNSHIP – STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
34.	28-07-2022	38.45	11.35	6.23	9.26	--
35.	01-08-2022	87.49	31.58	13.52	19.23	--
36.	04-08-2022	70.29	24.19	11.74	24.68	--
37.	08-08-2022	87.61	27.81	16.29	28.83	--
38.	11-08-2022	74.2	22.14	13.94	21.38	--
39.	15-08-2022	84.18	15.73	12.51	25.05	--
40.	18-08-2022	72.69	28.3	9.59	15.83	--
41.	22-08-2022	86.48	29.72	14.42	24.33	--
42.	25-08-2022	89.49	33.2	12.83	22.15	--
43.	29-08-2022	68.24	26.86	10.98	17.36	--
44.	01-09-2022	82.32	26.61	17.36	21.44	--
45.	05-09-2022	73.72	29.73	13.74	23.18	--
46.	08-09-2022	71.29	27.81	11.24	26.92	--
47.	12-09-2022	86.48	25.59	16.9	24.37	--
48.	15-09-2022	81.21	21.26	13.18	19.63	--
49.	19-09-2022	77.63	24.69	12.47	21.58	--
50.	22-09-2022	89.02	32.46	15.58	31.06	--

Continue...

Name of Location		SAMUDRA TOWNSHIP – STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
51.	26-09-2022	67.48	29.08	16.84	26.21	--
52.	29-09-2022	71.36	34.17	14.15	19.11	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	07-04-2022	79.43	26.75	10.44	18.23	NOT DETECTED
2.	08-04-2022	85.66	32.87	13.45	21.63	--
3.	11-04-2022	75.6	30.44	14.1	22.87	--
4.	12-04-2022	69.34	24.61	16.21	22.62	--
5.	18-04-2022	83.56	25.89	14.56	19.85	--
6.	21-04-2022	88.95	33.45	17.23	23.6	--
7.	25-04-2022	87.5	37.25	14.88	21.56	--
8.	28-04-2022	85.23	33.21	13.45	18.56	--
9.	02-05-2022	68.45	22.56	9.74	14.56	--
10.	05-05-2022	73.45	25.67	12.45	17.21	--
11.	09-05-2022	82.45	28.93	11.56	15.37	--
12.	12-05-2022	70.25	25.46	14.21	19.25	--
13.	16-05-2022	67.84	21.35	17.23	21.31	--
14.	18-05-2022	79.14	27.85	12.65	17.43	--
15.	23-05-2022	86.24	32.45	13.82	14.56	--
16.	26-05-2022	77.25	26.75	15.23	19.37	--

Continue...

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE					
Sr. No.	Date of Monitoring	Parameter with Results					
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	
17.	30-05-2022	71.45	23.18	12.15	15.78	--	
18.	02-06-2022	56.78	19.45	11.34	17.68	--	
19.	06-06-2022	82.34	23.56	10.23	15.32	--	
20.	09-06-2022	74.56	27.82	15.41	22.34	--	
21.	13-06-2022	54.34	18.76	15.23	20.18	--	
22.	15-06-2022	67.23	25.46	11.78	16.75	--	
23.	20-06-2022	76.21	30.15	10.17	17.85	--	
24.	23-06-2022	83.53	32.15	16.25	21.35	--	
25.	27-06-2022	72.34	28.17	14.38	20.18	--	
26.	29-06-2022	61.14	20.21	12.19	17.25	--	
27.	04-07-2022	45.67	14.23	7.56	9.12	NOT DETECTED	
28.	07-07-2022	22.34	7.24	5.12	7.21	--	
29.	11-07-2022	18.94	5.67	4.1	7.15	--	
30.	14-07-2022	20.14	7.15	6.23	8.24	--	
31.	18-07-2022	25.67	9.21	5.34	8.15	--	
32.	21-07-2022	33.45	10.44	7.23	9.12	--	
33.	25-07-2022	40.12	13.21	6.12	7.34	--	

Continue...

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
34.	28-07-2022	32.17	10.22	5.23	8.16	--
35.	01-08-2022	62.5	24.84	11.31	17.73	--
36.	04-08-2022	68.57	27.83	15.72	21.3	--
37.	08-08-2022	79.27	31.52	13.78	17.71	--
38.	11-08-2022	66.67	22.04	16.21	23.38	--
39.	15-08-2022	69.91	24.17	19.69	26.9	--
40.	18-08-2022	83.42	32.56	16.53	19.32	--
41.	22-08-2022	81.52	34.28	12.47	17.52	--
42.	25-08-2022	74.85	29.47	9.97	14.79	--
43.	29-08-2022	71.29	26.52	11.29	19.48	--
44.	01-09-2022	67.36	18.32	16.57	22.31	--
45.	05-09-2022	64.72	22.73	12.36	18.46	--
46.	08-09-2022	71.84	29.01	18.47	26.84	--
47.	12-09-2022	74.42	24.62	16.34	20.26	--
48.	15-09-2022	61.27	32.57	14.63	17.56	--
49.	19-09-2022	86.08	21.43	20.13	27.86	--
50.	22-09-2022	59.97	28.74	23.87	29.04	--

Continue...

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
51.	26-09-2022	69.56	33.94	14.27	17.25	--
52.	29-09-2022	77.13	27.56	17.16	23.14	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		SAMUDRA TOWNSHIP – STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		06-04-2022	18-05-2022	11-06-2022	19-07-2022	12-08-2022	07-09-2022
1	06:00 to 07:00	61.3	62.6	62.5	62.6	61.8	60.5
2	07:00 to 08:00	63.5	65.6	61.5	68.3	62.8	63.8
3	08:00 to 09:00	66.7	68.6	60.5	64.2	68.6	65.5
4	09:00 to 10:00	65.5	65.5	62.3	69.8	65.5	66.3
5	10:00 to 11:00	68.2	68.3	60.5	62.2	68.3	63.4
6	11:00 to 12:00	64.5	68.9	63.4	68.8	68.9	68.2
7	12:00 to 13:00	63.9	65.4	64.2	67.2	65.4	66.5
8	13:00 to 14:00	66.7	66.3	65.5	62.5	66.3	63.0
9	14:00 to 15:00	62.6	68.5	64.9	67.1	68.5	64.5
10	15:00 to 16:00	65.5	64.5	63.6	61.5	64.5	63.7
11	16:00 to 17:00	69.1	68.3	65.3	66.8	68.3	64.4
12	17:00 to 18:00	69.2	65.6	62.8	65.7	65.6	65.1
13	18:00 to 19:00	64.5	67.2	60.4	68.1	67.2	62.9
14	19:00 to 20:00	62.3	63.5	59.4	65.2	63.5	64.2
15	20:00 to 21:00	60.6	60.5	58.5	64.1	60.5	62.8
16	21:00 to 22:00	60.5	62.8	59.3	61.2	61.4	62.9
Day Time		<75 dB (A)					

Continue...

Location Name		SAMUDRA TOWNSHIP – STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		06-04-2022	18-05-2022	11-06-2022	19-07-2022	12-08-2022	07-09-2022
1	22:00 to 23:00	59.34	61.6	57.5	63.2	62.7	61.3
2	23:00 to 24:00	56.43	60.5	55.6	57.8	60.5	59.4
3	24:00 to 01:00	54.32	59.5	57.2	58.9	59.5	59.9
4	01:00 to 02:00	57.89	60.5	55.8	62.1	60.5	61.6
5	02:00 to 03:00	51.23	58.1	54.2	55.4	58.1	57.4
6	03:00 to 04:00	53.87	60.5	54.9	59.4	60.5	60.1
7	04:00 to 05:00	56.34	62.3	55.3	60.2	62.3	63.5
8	05:00 to 06:00	57.23	61.5	56.5	64.2	60.2	63.0
Night Time		<70 dB (A)					

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




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		SAMUDRA TOWNSHIP CUSTOMER CARE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		08-04-2022	23-05-2022	09-06-2022	06-07-2022	20-08-2022	20-09-2022
1	06:00 to 07:00	61.5	61.2	62.3	60.5	64.4	62.5
2	07:00 to 08:00	66.7	65.2	64.2	58.4	65.2	61.5
3	08:00 to 09:00	60.5	62.9	63.1	62.5	64.8	60.5
4	09:00 to 10:00	63.9	65.1	64.5	69.4	64.3	62.3
5	10:00 to 11:00	64.5	63.9	63.3	65.4	63.8	61.1
6	11:00 to 12:00	65.2	59.8	65.5	66.3	59.2	64.8
7	12:00 to 13:00	66.1	61.2	63.2	66.7	61.9	64.2
8	13:00 to 14:00	60.6	61.0	61.9	64.9	60.2	65.5
9	14:00 to 15:00	61.8	61.4	62.5	66.8	61.9	63.8
10	15:00 to 16:00	62.5	61.3	64.2	63.6	62.4	63.6
11	16:00 to 17:00	63.2	61.0	61.5	64.8	64.7	64.9
12	17:00 to 18:00	65.4	65.2	64.6	62.2	66.5	62.8
13	18:00 to 19:00	62.1	59.8	60.2	68.4	60.2	61.2
14	19:00 to 20:00	60.2	60.1	61.5	67.1	65.3	59.4
15	20:00 to 21:00	58.9	56.8	60.5	60.2	58.3	58.5
16	21:00 to 22:00	59.2	59.7	59.8	63.4	62.7	59.9
Day Time		<75 dB (A)					

Continue...

Location Name		SAMUDRA TOWNSHIP CUSTOMER CARE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		08-04-2022	23-05-2022	09-06-2022	06-07-2022	20-08-2022	20-09-2022
1	22:00 to 23:00	56.24	57.1	58.2	59.6	58.2	59.4
2	23:00 to 24:00	58.25	56.9	57.5	60.3	58.8	61.8
3	24:00 to 01:00	57.25	54.1	55.2	60.5	53.8	57.7
4	01:00 to 02:00	55.21	59.9	56.5	61.2	58.6	54.9
5	02:00 to 03:00	54.59	52.5	54.2	57.8	53.6	53.2
6	03:00 to 04:00	58.69	53.0	54.5	53.5	54.7	54.5
7	04:00 to 05:00	59.23	56.4	57.2	58.2	57.2	56.8
8	05:00 to 06:00	57.38	59.9	57.5	59.3	60.5	59.1
Night Time		<70 dB (A)					

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




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Sr. No.	Parameter	Unit	May - 2022	GPCB LIMIT	Method of Test
			Adani Hospital DG Set		
			12-05-2022		
1.	Particulate Matter	mg/Nm ³	18.7	150	IS 11255 (Part - 1)
2.	Sulphur Dioxide	ppm	5.25	100	IS 11255 (Part - 2)
3.	Oxide of Nitrogen	ppm	29.14	50	IS 11255 (Part - 7)
4.	Carbon Monoxide	mg/Nm ³	3.5	--	UERL/AIR/SOP/18
5.	Non Methyl Hydro Carbon	ppm	Not Detected	--	UERL/AIR/SOP/27



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

RESULTS OF CETP INLET WATER

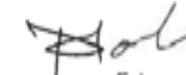
SR.NO.	TEST PARAMETERS	UNIT	CETP INLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22		
			04-04-2022	10-05-2022	01-06-2022	02-07-2022	04-08-2022	28-09-2022		
1.	pH @ 27 ° C	--	7.68	7.84	7.46	7.29	7.56	7.76	6.5 to 8.5	APHA 23 rd Ed.,2017,4500-H+B
2.	Temperature	°C	30.2	30.5	31	30	30	30.5	--	IS 3025(Part 9)1984
3.	Colour	Pt. Co. Scale	55	60	50	60	80	70	100	IS 3025(Part 4)
4.	Total Suspended Solids	mg/L	86	102	114	108	104	84	800	APHA 23 rd Ed.,2017,2540-D
5.	Oil & Grease	mg/L	8	9	12	11	10	10	20	IS 3025(Part 39)1991, Amd. 2
6.	Phenolic Compounds	mg/L	0.54	0.85	1.03	1.12	0.95	0.86	2	IS 3025(Part 43)1992, Amd.2
7.	Fluoride	mg/L	1	0.94	1.14	0.86	1.12	1.05	2	APHA 23 rd Ed.,2017,4500 F, D
8.	Iron as Fe	mg/L	0.86	1.06	1.11	1.24	1.32	1.62	3	IS 3025(Part 53)2003,
9.	Zinc as Zn	mg/L	1.12	1.26	1.21	1.19	1.05	1.28	15	IS 3025(Part 49)1994
10.	Trivalent Chromium	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	3	By Calculation
11.	Sulphide	mg/L	0.86	1.05	0.89	1.24	1.36	1.11	2	APHA 23 rd Ed.,2017,4500-H+B

Continue...

SR.NO.	TEST PARAMETERS	UNIT	CETP INLET						GPCB Permissible Limit CETP Inlet	TEST METHOD
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22		
			04-04-2022	10-05-2022	01-06-2022	02-07-2022	04-08-2022	28-09-2022		
12.	Ammonical Nitrogen	mg/L	25.2	28.8	22.4	25.8	26.5	28.5	50	IS 3025(Part 9)1984
13.	BOD (3 days at 27 °C)	mg/L	150	178	160	171	202	196	1000	IS 3025(Part 4)
14.	COD	mg/L	624.5	744.2	668.4	708.9	722.4	810.4	2000	APHA 23 rd Ed.,2017,2540 –D
15.	Chloride (as Cl) -	mg/L	846.2	821.2	861.4	844.6	842.2	846.2	1000	IS 3025(Part39)1991, Amd. 2
16.	Sulphate (as SO ₄)	mg/L	286.8	290.4	210.8	188	204	180	1000	IS 3025(Part 43)1992, Amd.2
17.	Total Dissolved Solids	mg/L	1682	1704	1710	1756	1734	1810	2100	APHA 23 rd Ed.,2017,4500 F, D
18.	Total Residual Chlorine	mg/L	0.6	0.77	0.87	0.68	0.72	0.68	2	IS 3025(Part 53)2003,
19.	Copper as Cu	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	3	IS 3025(Part 49)1994



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

RESULTS OF CETP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	CETP OUTLET						GPCB Permissible Limit CETP Outlet	TEST METHOD
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22		
			04-04-2022	10-05-2022	01-06-2022	02-07-2022	04-08-2022	28-09-2022		
1.	pH @ 27 ° C	--	7.51	7.46	7.52	7.84	7.83	7.62	6.0 – 9.0	APHA 23 rd Ed.,2017,4500-H ⁺ B
2.	Temperature	°C	30.1	30.4	30.5	30	30	30.5	Shall not exceed more than 5 °C above received water temperature	IS 3025(Part 9)1984
3.	Colour	Pt. Co. Scale	30	40	30	25	30	50	100	IS 3025(Part 4)
4.	Total Suspended Solids	mg/L	14	28	22	26	24	44	100	APHA 23 rd Ed.,2017,2540 –D
5.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	2	10	IS 3025 (Part 39)1991, Amd. 2
6.	Phenolic Compounds	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
7.	Fluoride	mg/L	0.58	0.49	0.84	1.12	1.1	0.88	2	APHA 23 rd Ed.,2017,4500F, D
8.	Iron as Fe	mg/L	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	3	IS 3025(Part 53)2003,
9.	Zinc as Zn	mg/L	0.88	0.94	1.12	1.32	1.09	1.05	15	IS 3025(Part 49)1994
10.	Trivalent Chromium	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	2	By Calculation

Continue...

SR.NO.	TEST PARAMETERS	UNIT	CETP OUTLET						GPCB Permissible Limit CETP Inlet	TEST METHOD	
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22			
			04-04-2022	10-05-2022	01-06-2022	02-07-2022	04-08-2022	28-09-2022			
11.	Sulphide	mg/L	1.14	0.58	0.64	0.84	1.12	1.24	2	APHA 23 rd Ed.,2017,4500-H+B	
12.	Ammonical Nitrogen	mg/L	6.2	10.2	14.5	18.6	22.5	30.2	50	IS 3025(Part 9)1984	
13.	BOD (3 days at 27 °C)	mg/L	39	45	46	48	52	47	100	IS 3025(Part 4)	
14.	COD	mg/L	164.5	188.4	194.2	204	218.5	196	250	APHA 23 rd Ed.,2017,2540-D	
15.	Chloride (as Cl) -	mg/L	812.2	818.2	823.1	844.4	785.7	854	1000	IS 3025(Part 39)1991, Amd. 2	
16.	Sulphate (as SO ₄)	mg/L	204.4	210	180.6	184	196	210	1000	IS 3025(Part 43)1992, Amd.2	
17.	Total Dissolved Solids	mg/L	1844	1876	1888	1874	1856	1852	2100	APHA 23 rd Ed.,2017,4500F, D	
18.	Total Residual Chlorine	mg/L	0.8	0.96	0.87	0.96	0.68	0.84	1	IS 3025(Part 53)2003,	
19.	Copper as Cu	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	3	IS 3025(Part 49)1994	
20.	Bio Assay test (%)	%	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	90 % survival of fish after 96 hrs. in 100% effluent	IS:6582-1971



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		WTP- Nr. CETP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	07-04-2022	87.43	41.34	25.67	31.44	NOT DETECTED
2.	08-04-2022	84.56	33.56	22.34	29.65	--
3.	11-04-2022	80.21	27.85	26.18	32.48	--
4.	12-04-2022	78.45	39.34	20.15	27.85	--
5.	18-04-2022	85.65	44.23	23.45	29.21	--
6.	21-04-2022	75.89	37.85	27.15	33.52	--
7.	25-04-2022	84.56	31.28	25.12	34.5	--
8.	28-04-2022	89.76	38.56	23.67	28.45	--
9.	02-05-2022	86.43	36.78	21.45	27.85	--
10.	05-05-2022	80.45	31.25	25.23	31.33	--
11.	09-05-2022	87.32	40.54	20.25	25.67	--
12.	12-05-2022	89.25	33.78	17.83	23.45	--
13.	16-05-2022	78.74	26.25	21.56	28.92	--
14.	18-05-2022	81.45	39.25	25.23	27.85	--
15.	23-05-2022	84.21	35.68	27.17	31.54	--

Continue...

Name of Location		WTP- Nr. CETP				
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
16.	26-05-2022	77.34	39.25	22.68	26.79	--
17.	30-05-2022	88.24	42.35	24.85	30.15	--
18.	02-06-2022	83.45	35.23	19.32	25.67	--
19.	06-06-2022	78.98	27.68	22.37	29.21	--
20.	09-06-2022	84.56	31.25	18.24	25.68	--
21.	13-06-2022	75.69	26.12	25.34	30.21	--
22.	15-06-2022	88.93	29.45	28.21	33.25	--
23.	20-06-2022	73.45	22.85	26.45	30.17	--
24.	23-06-2022	85.68	34.56	23.11	29.15	--
25.	27-06-2022	81.33	29.92	25.75	31.22	--
26.	29-06-2022	78.95	26.34	22.27	28.45	--
27.	04-07-2022	62.34	22.1	14.56	20.23	0.05
28.	07-07-2022	35.67	12.34	9.23	13.23	--
29.	11-07-2022	41.23	14.56	8.44	11.21	--
30.	14-07-2022	38.45	13.42	11.23	13.45	--
31.	18-07-2022	42.45	14.21	9.15	12.28	--

Continue...

Name of Location		WTP- Nr. CETP				
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
32.	21-07-2022	40.23	15.1	10.17	12.45	--
33.	25-07-2022	55.34	15.6	9.23	11.23	--
34.	28-07-2022	40.23	12.34	8.35	11.67	--
35.	01-08-2022	89.23	39.35	24.68	29.38	--
36.	04-08-2022	87.6	29.39	26.45	32.61	--
37.	08-08-2022	83.91	43.8	18.27	21.76	--
38.	11-08-2022	86.6	34.26	21.4	28.83	--
39.	15-08-2022	88.85	28.71	24.86	32.07	--
40.	18-08-2022	83.14	41.14	27.96	31.48	--
41.	22-08-2022	85.1	38.63	26.32	29.14	--
42.	25-08-2022	73.64	37.82	21.89	28.39	--
43.	29-08-2022	86.54	40.24	28.69	33.65	--
44.	01-09-2022	81.8	32.15	18.32	23.62	--
45.	05-09-2022	87.38	24.86	21.08	27.43	--
46.	08-09-2022	76.52	34.47	14.53	18.67	--
47.	12-09-2022	84.86	38.71	20.65	31.28	--

Continue...

Name of Location		WTP- Nr. CETP				
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
48.	15-09-2022	79.38	21.34	29.31	36.74	--
49.	19-09-2022	88.62	38.26	17.28	25.9	--
50.	22-09-2022	86.71	42.18	23.12	32.34	--
51.	26-09-2022	84.1	34.93	27.48	34.28	--
52.	29-09-2022	78.36	46.64	26.81	30.42	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		AIR STRIP						
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.	07-04-2022	73.45	26.78	17.23	21.35	0.03	NOT DETECTED	NOT DETECTED
2.	08-04-2022	85.23	30.56	13.45	23.45	0.05	NOT DETECTED	NOT DETECTED
3.	11-04-2022	78.25	24.54	15.2	19.26	NOT DETECTED	NOT DETECTED	NOT DETECTED
4.	12-04-2022	86.23	35.67	17.23	24.21	0.07	NOT DETECTED	NOT DETECTED
5.	18-04-2022	78.21	23.45	11.24	18.98	0.1	NOT DETECTED	NOT DETECTED
6.	21-04-2022	84.56	29.44	14.23	22.56	0.05	NOT DETECTED	NOT DETECTED
7.	25-04-2022	89.15	30.21	18.18	26.78	NOT DETECTED	NOT DETECTED	NOT DETECTED
8.	28-04-2022	83.25	27.56	15.45	21.35	0.04	NOT DETECTED	NOT DETECTED
9.	02-05-2022	70.23	24.21	15.67	22.78	0.05	NOT DETECTED	NOT DETECTED
10.	05-05-2022	86.78	35.23	18.21	24.51	0.02	NOT DETECTED	NOT DETECTED
11.	09-05-2022	72.34	26.78	16.78	21.37	0.1	NOT DETECTED	NOT DETECTED
12.	12-05-2022	79.21	24.12	18.44	25.46	0.04	NOT DETECTED	NOT DETECTED
13.	16-05-2022	67.34	28.15	15.43	20.19	0.05	NOT DETECTED	NOT DETECTED
14.	18-05-2022	78.95	31.69	17.21	23.56	0.04	NOT DETECTED	NOT DETECTED
15.	23-05-2022	84.56	37.25	12.34	21.45	0.08	NOT DETECTED	NOT DETECTED

Continue...

Name of Location		AIR STRIP						
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.	26-05-2022	89.24	32.56	16.79	23.45	0.05	NOT DETECTED	NOT DETECTED
17.	30-05-2022	78.45	29.15	15.24	22.34	0.05	NOT DETECTED	NOT DETECTED
18.	02-06-2022	65.46	23.58	11.78	17.89	0.02	NOT DETECTED	NOT DETECTED
19.	06-06-2022	72.35	27.21	14.53	22.46	0.04	NOT DETECTED	NOT DETECTED
20.	09-06-2022	64.56	22.45	15.17	23.18	0.08	NOT DETECTED	NOT DETECTED
21.	13-06-2022	57.43	20.18	12.94	19.84	0.05	NOT DETECTED	NOT DETECTED
22.	15-06-2022	69.22	25.21	15.43	23.45	0.07	NOT DETECTED	NOT DETECTED
23.	20-06-2022	73.25	28.43	18.32	24.19	0.06	NOT DETECTED	NOT DETECTED
24.	23-06-2022	62.34	25.17	13.19	19.18	0.04	NOT DETECTED	NOT DETECTED
25.	27-06-2022	75.44	28.16	17.36	24.55	0.03	NOT DETECTED	NOT DETECTED
26.	29-06-2022	60.23	21.49	15.33	21.39	0.02	NOT DETECTED	NOT DETECTED
27.	04-07-2022	56.78	18.45	10.23	13.45	0.08	NOT DETECTED	NOT DETECTED
28.	07-07-2022	29.44	10.15	8.34	10.21	NOT DETECTED	NOT DETECTED	NOT DETECTED
29.	11-07-2022	32.35	9.25	7.23	9.25	NOT DETECTED	NOT DETECTED	NOT DETECTED
30.	14-07-2022	27.89	8.45	9.2	11.26	NOT DETECTED	NOT DETECTED	NOT DETECTED
31.	18-07-2022	35.68	11.44	7.23	10.45	NOT DETECTED	NOT DETECTED	NOT DETECTED

Continue...

Name of Location		AIR STRIP						
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.	21-07-2022	39.23	13.28	6.35	9.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
33.	25-07-2022	41.23	13.87	7.21	9.15	NOT DETECTED	NOT DETECTED	NOT DETECTED
34.	28-07-2022	33.23	10.35	5.12	8.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
35.	01-08-2022	79.16	27.11	13.87	24.32	0.03	NOT DETECTED	NOT DETECTED
36.	04-08-2022	86.38	32.76	19.76	27.47	0.05	NOT DETECTED	NOT DETECTED
37.	08-08-2022	68.74	29.54	14.48	23.85	0.09	NOT DETECTED	NOT DETECTED
38.	11-08-2022	85.38	27.35	21.36	28.49	0.02	NOT DETECTED	NOT DETECTED
39.	15-08-2022	63.84	32.43	13.25	19.18	0.03	NOT DETECTED	NOT DETECTED
40.	18-08-2022	73.18	34.92	16.38	26.22	0.06	NOT DETECTED	NOT DETECTED
41.	22-08-2022	88.52	36.64	17.27	23.63	0.05	NOT DETECTED	NOT DETECTED
42.	25-08-2022	75.49	31.28	13.26	26.61	0.08	NOT DETECTED	NOT DETECTED
43.	29-08-2022	82.55	28.63	14.37	28.24	0.03	NOT DETECTED	NOT DETECTED
44.	01-09-2022	71.62	31.51	17.26	28.49	0.07	NOT DETECTED	NOT DETECTED
45.	05-09-2022	68.42	28.62	16.76	22.38	0.04	NOT DETECTED	NOT DETECTED
46.	08-09-2022	78.42	36.89	18.51	21.02	0.03	NOT DETECTED	NOT DETECTED
47.	12-09-2022	81.27	32.34	16.83	23.95	0.06	NOT DETECTED	NOT DETECTED

Continue...

Name of Location		AIR STRIP						
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.	15-09-2022	66.14	26.23	9.76	13.28	0.04	NOT DETECTED	NOT DETECTED
49.	19-09-2022	79.52	30.86	21.42	31.68	0.09	NOT DETECTED	NOT DETECTED
50.	22-09-2022	83.21	32.56	23.06	29.53	0.04	NOT DETECTED	NOT DETECTED
51.	26-09-2022	86.73	37.42	15.17	23.24	0.08	NOT DETECTED	NOT DETECTED
52.	29-09-2022	74.62	34.22	19.36	32.24	0.02	NOT DETECTED	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 Noise Level Monitoring

Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		02-04-2022	17-05-2022	29-06-2022	22-07-2022	04-08-2022	03-09-2022
1	06:00 to 07:00	60.4	61.8	63.9	62.6	64.4	62.8
2	07:00 to 08:00	63.5	63.8	66.3	68.3	63.8	66.3
3	08:00 to 09:00	58.9	66.7	66.8	64.2	66.7	65.5
4	09:00 to 10:00	63.5	65.3	68.5	69.8	65.3	67.8
5	10:00 to 11:00	67.8	66.7	66.2	62.2	66.7	66.2
6	11:00 to 12:00	69.5	62.9	65.2	68.8	62.9	65.2
7	12:00 to 13:00	64.5	64.2	66.5	67.2	64.2	66.5
8	13:00 to 14:00	66.2	62.5	66.1	62.5	62.5	66.1
9	14:00 to 15:00	60.2	63.6	67.3	67.1	63.6	67.3
10	15:00 to 16:00	65.5	60.6	63.4	61.5	60.6	64.2
11	16:00 to 17:00	68.9	63.5	65.5	66.8	63.5	65.5
12	17:00 to 18:00	60.5	60.5	62.8	67.5	60.5	62.8
13	18:00 to 19:00	64.5	58.5	60.5	68.1	58.5	60.5
14	19:00 to 20:00	60.2	58.3	61.3	65.2	58.3	62.1
15	20:00 to 21:00	58.7	59.5	60.2	64.1	59.5	60.2
16	21:00 to 22:00	56.5	58.5	59.6	61.2	60.8	60.1
Day Time		<75 dB (A)					

Continue...

Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		02-04-2022	17-05-2022	29-06-2022	22-07-2022	04-08-2022	03-09-2022
1	22:00 to 23:00	57.2	56.4	59.5	63.2	60.2	58.4
2	23:00 to 24:00	60.2	58.2	58.5	60.5	57.5	56.8
3	24:00 to 01:00	57.6	57.5	58.3	60.4	58.3	59.4
4	01:00 to 02:00	55.3	57.5	57.5	62.1	56.8	58.1
5	02:00 to 03:00	55.5	56.8	57.8	57.8	56.9	56.9
6	03:00 to 04:00	57.8	56.9	55.9	59.4	57.7	58.5
7	04:00 to 05:00	56.2	55.4	55.5	60.2	57.8	59.4
8	05:00 to 06:00	58.9	57.8	58.2	64.2	61.9	62.6
Night Time		<70 dB (A)					

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




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		11-04-2022	24-05-2022	11-06-2022	19-07-2022	23-08-2022	20-09-2022
1	06:00 to 07:00	62.5	63.7	62.5	62.6	60.9	62.5
2	07:00 to 08:00	68.5	65.2	61.5	68.3	66.3	61.5
3	08:00 to 09:00	65.5	62.9	60.5	64.2	62.7	60.5
4	09:00 to 10:00	64.2	65.8	62.3	69.8	66.7	62.3
5	10:00 to 11:00	66.8	63.2	60.5	62.2	64.8	61.1
6	11:00 to 12:00	62.8	62	63.4	68.8	63.8	64.8
7	12:00 to 13:00	66.9	63.2	64.2	67.2	62.9	64.2
8	13:00 to 14:00	65.6	62.9	65.5	62.5	63.7	65.5
9	14:00 to 15:00	65.2	63.2	64.9	67.1	61.4	63.8
10	15:00 to 16:00	68.2	62	63.6	61.5	65.4	63.6
11	16:00 to 17:00	64.2	62.3	65.3	66.8	63.8	64.9
12	17:00 to 18:00	67.2	65.1	62.8	65.7	66.1	62.8
13	18:00 to 19:00	66.5	60	60.4	68.1	60.3	61.2
14	19:00 to 20:00	68.5	62.3	59.4	65.2	64.6	59.4
15	20:00 to 21:00	63.2	57	58.5	64.1	59.7	58.5
16	21:00 to 22:00	59.7	59.2	59.3	61.2	62.1	59.9
Day Time		<75 dB (A)					

Continue...

Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		11-04-2022	24-05-2022	11-06-2022	19-07-2022	23-08-2022	20-09-2022
1	22:00 to 23:00	59.6	57.2	57.5	63.2	58.9	59.4
2	23:00 to 24:00	58.76	58.2	55.6	57.8	60.8	61.8
3	24:00 to 01:00	63.5	58.4	57.2	58.9	56.7	57.7
4	01:00 to 02:00	60.21	56.5	55.8	62.1	53.9	54.9
5	02:00 to 03:00	60.2	52.3	54.2	55.4	54.2	53.2
6	03:00 to 04:00	64.2	55.7	54.9	59.4	53.1	54.5
7	04:00 to 05:00	58.2	56.9	55.3	60.2	55.5	56.8
8	05:00 to 06:00	62.1	58.2	56.5	64.2	58.8	59.1
Day Time		<70 dB (A)					

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




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Sr. No.	Parameter	Unit	April-2022	GPCB LIMIT	Method of Test
			D.G.Set No. S-1 (380 KVA)		
			23-04-2022		
1	Particulate Matter	mg/Nm ³	20.18	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	6.1	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	27.45	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.8	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	--	UERL/AIR/SOP/27



Nikunj D. Patel
(Chemist)



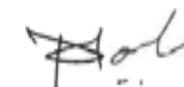

Jaivik S. Tandel
(Manager - Operations)

RESULTS OF BOREHOLE WATER SAMPLE

Sr. No	Parameters	Method	Unit	05-07-2022
				Nr. CETP
1	pH @ 25 ° C	IS 3025(Part 11)1983	--	7.42
2	Salinity	APHA 23rd Ed.,2017,2520 B	ppt	1.89
3	Oil & Grease	IS 3025(Part39)1991, Amd. 2	mg/L	BDL(MDL:2.0)
4	Hydrocarbon	GC/GCMS	mg/L	Not Detected
5	Lead as Pb	IS 3025 (PART 47) 1994	mg/L	0.08
6	Arsenic as As	APHA 23rd Ed.,2017,3114-C	mg/L	BDL(MDL:0.01)
7	Nickel as Ni	IS 3025 (PART 54) 2003	mg/L	0.068
8	Total Chromium as Cr	IS 3025 (PART 52) 2003	mg/L	BDL(MDL:0.05)
9	Cadmium as Cd	IS 3025(PART 41) 1992	mg/L	BDL(MDL:0.003)
10	Mercury as Hg	APHA 23rd Ed.,2017, 3112-B	mg/L	BDL(MDL:0.001)
11	Zinc as Zn	IS 3025(PART 49) 1994	mg/L	0.286
12	Copper as Cu	IS 3025 (PART 42) 1992	mg/L	BDL(MDL:0.05)
13	Iron as Fe	IS 3025(PART 53) 2003	mg/L	BDL(MDL:0.1)
14	Insecticides/Pesticides	USEPA 8081 B	µg/L	Absent
15	Depth of Water Level from Ground Level	--	meter	2.3



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

RESULTS OF SOIL SAMPLE

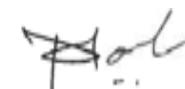
SR. NO.	TEST PARAMETERS	UNIT	05-07-2022
			Near CETP
1	pH	--	8.75
2	Nitrogen as N	%	0.34
3	Phosphorus as P	mg/kg	362
4	Potassium as K	mg/kg	124
5	Boron as B	mg/kg	3.36
6	Calcium as Ca	mg/kg	452
7	Magnesium as Mg	mg/kg	598
8	Iron as Fe	%	0.45
9	Moisture	%	8.18
10	Organic Matter	%	0.21
11	Cation exchange capacity (CEC)	meq/100gm	9.52
12	TVC	CFU/gm	1.8 x 106
13	Cadmium as Cd	mg/kg	BDL(MDL:1.0)
14	Thorium as Th	mg/kg	BDL(MDL:1.0)
15	Antimony as Sb	mg/kg	BDL(MDL:1.0)
16	Arsenic as As	mg/kg	BDL(MDL:1.0)

Continue...

17	Lead as Pb	mg/kg	BDL(MDL:1.0)
18	Chromium as Cr	mg/kg	BDL(MDL:1.0)
19	Cobalt as Co	mg/kg	23.5
20	Copper as Cu	mg/kg	40.2
21	Nickel as Ni	mg/kg	12.9
22	Manganese and Mn	mg/kg	325
23	Vanadium as V	mg/kg	8.15



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

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	1 µg/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	SuspeNOT DETECTED particulate matter	mg/Nm3	2 mg/Nm3
2	Sulphur Dioxide SOX	mg/Nm3	4 mg/Nm3
3	Oxides of Nitrogen NOX	mg/Nm3	5 mg/Nm3

CETP water

Sr. No.	Test Parameter	Unit	MDL
1	pH @ 27 ° C	--	2
2	Temperature	0C	5
3	Colour	Pt. Co. Scale	5
4	Total Suspended Solids	mg/L	4
5	Oil & Grease	mg/L	2
6	Phenolic Compounds	NOT DETECTED	0.1
7	Fluoride	mg/L	0.2
8	Iron as Fe	mg/L	0.1
9	Zinc as Zn	mg/L	0.05
10	Trivalent Chromium	mg/L	0.05
11	Sulphide	mg/L	0.05
12	Ammonical Nitrogen	mg/L	2
13	BOD (3 days at 27 0C)	mg/L	1
14	COD	mg/L	2
15	Chloride (as Cl) -	mg/L	1
16	Sulphate (as SO ₄)	mg/L	1
17	Total Dissolved Solids	mg/L	4
18	Total Residual Chlorine	mg/L	0.1
19	Copper as Cu	mg/L	0.05
20	Bio Assay test (%)	%	--

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	PUB ADANI HOUSE STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Oct-22		Nov-22		Dec-22					
			10-10-2022	21-10-2022	7-11-2022	17-11-2022	12-12-2022	30-12-2022				
1.	pH @ 25 ° C	--	7.4	7.42	7.25	7.2	7.14	7.28	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	22	24	28	22	24	22	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	15	17	18	19	16	14	30	APHA 23 rd Ed.,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.68	0.72	0.82	0.88	0.76	0.74	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	40	50	80	60	110	60	1000	IS 1622: 1981		

Continue...

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	PUB ADANI HOUSE STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Jan-23		Feb-23		Mar-23					
			09-01-2023	31-01-2023	10-02-2023	27-02-2023	13-03-2023	28-03-2023				
1.	pH @ 25 ° C	--	7.31	7.24	7.28	7.24	7.32	7.36	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	24	28	26	24	20	18	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	16	18	17	16	16	16	30	APHA 23 rd Ed.,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.82	0.78	0.82	0.82	0.88	0.94	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	60	80	70	110	60	110	1000	IS 1622: 1981		



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	North Gate STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Oct-22		Nov-22		Dec-22					
			10-10-2022	21-10-2022	7-11-2022	17-11-2022	12-12-2022	29-12-2022				
1.	pH @ 25 ° C	--	7.29	7.46	7.42	7.38	7.29	7.42	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	26	24	26	24	22	18	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	16	17	18	16	15	14	30	APHA 23 rd Ed,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.74	0.82	0.84	0.94	0.82	0.84	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	80	70	50	80	70	60	1000	IS 1622: 1981		

Continue...

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	North Gate STP OUTLET						GPCB Permissible Limit	TEST METHOD		
			Jan-23		Feb-23		Mar-23					
			09-01-2023	30-01-2023	11-02-2023	28-02-2023	14-03-2023	28-03-2023				
1.	pH @ 25 ° C	--	7.41	7.35	7.28	7.41	7.44	7.48	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	20	22	24	26	20	24	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	18	19	16	17	18	17	30	APHA 23 rd Ed.,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.94	0.85	0.88	0.82	0.74	0.82	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	60	80	130	90	80	90	1000	IS 1622: 1981		



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

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.	03-10-2022	79.37	28.34	17.38	26.86	0.92	NOT DETECTED	NOT DETECTED
2.	06-10-2022	83.47	36.86	19.63	23.26	1.15	NOT DETECTED	NOT DETECTED
3.	10-10-2022	82.38	32.12	17.88	29.10	1.00	NOT DETECTED	NOT DETECTED
4.	13-10-2022	73.48	29.73	18.39	26.24	1.12	NOT DETECTED	NOT DETECTED
5.	17-10-2022	84.32	26.46	24.96	31.82	1.00	NOT DETECTED	NOT DETECTED
6.	20-10-2022	88.74	37.94	23.58	29.39	1.10	NOT DETECTED	NOT DETECTED
7.	27-10-2022	75.93	23.63	29.34	37.43	0.96	NOT DETECTED	NOT DETECTED
8.	28-10-2022	81.29	32.45	22.25	31.98	1.13	NOT DETECTED	NOT DETECTED
9.	31-10-2022	78.64	39.41	31.48	38.71	1.00	NOT DETECTED	NOT DETECTED
10.	03-11-2022	83.21	27.43	11.24	16.78	1.00	4.72	NOT DETECTED
11.	07-11-2022	78.23	21.25	14.78	20.15	1.15	3.29	NOT DETECTED
12.	10-11-2022	65.78	31.16	17.89	24.56	0.94	5.63	NOT DETECTED
13.	14-11-2022	77.58	22.47	23.45	31.36	1.00	5.09	NOT DETECTED
14.	17-11-2022	81.24	26.28	26.78	30.15	1.00	4.37	NOT DETECTED
15.	21-11-2022	83.45	34.56	23.10	28.15	1.15	4.86	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.	24-11-2022	73.45	28.51	22.45	27.14	0.95	2.98	NOT DETECTED
17.	28-11-2022	80.12	23.83	19.25	22.53	1.00	4.12	NOT DETECTED
18.	01-12-2022	84.42	23.57	16.38	26.47	1.16	3.72	NOT DETECTED
19.	05-12-2022	68.54	21.75	19.43	25.79	1.00	4.76	NOT DETECTED
20.	08-12-2022	82.71	24.17	26.19	34.27	1.10	4.88	NOT DETECTED
21.	12-12-2022	76.83	29.96	28.77	37.36	1.13	4.26	NOT DETECTED
22.	15-12-2022	86.53	32.78	21.91	27.52	1.00	3.57	NOT DETECTED
23.	19-12-2022	83.36	31.26	27.62	33.13	1.16	3.72	NOT DETECTED
24.	22-12-2022	79.16	34.04	25.12	31.98	1.00	3.14	NOT DETECTED
25.	26-12-2022	73.58	29.36	22.65	29.07	1.00	3.64	NOT DETECTED
26.	29-12-2022	85.63	36.42	26.83	36.17	1.15	4.12	NOT DETECTED
27.	02-01-2023	72.36	29.62	13.28	31.34	1.00	2.96	NOT DETECTED
28.	05-01-2023	84.27	24.38	26.73	34.86	1.12	3.59	NOT DETECTED
29.	09-01-2023	81.63	27.47	17.38	26.47	1.00	3.26	NOT DETECTED
30.	12-01-2023	75.38	37.24	26.77	32.14	1.00	4.83	NOT DETECTED
31.	16-01-2023	87.31	26.48	16.64	27.92	1.15	4.89	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.	19-01-2023	64.38	39.63	21.94	31.23	1.13	3.26	NOT DETECTED
33.	23-01-2023	73.29	32.47	29.58	38.96	1.17	2.13	NOT DETECTED
34.	26-01-2023	69.04	36.72	26.16	37.53	1.13	2.79	NOT DETECTED
35.	30-01-2023	84.27	27.84	18.24	26.48	1.12	3.74	NOT DETECTED
36.	02-02-2023	89.28	34.79	23.85	27.13	1.17	4.83	NOT DETECTED
37.	06-02-2023	73.59	29.82	21.29	29.75	1.00	2.37	NOT DETECTED
38.	09-02-2023	86.27	39.84	32.06	43.27	1.17	4.72	NOT DETECTED
39.	13-02-2023	77.33	32.61	31.29	37.55	0.95	2.79	NOT DETECTED
40.	16-02-2023	76.52	31.28	24.66	31.74	1.00	3.16	NOT DETECTED
41.	20-02-2023	63.38	34.39	28.17	37.93	1.00	4.33	NOT DETECTED
42.	23-02-2023	88.56	41.39	23.72	33.84	1.15	3.69	NOT DETECTED
43.	27-02-2023	73.41	38.69	31.43	36.16	1.00	3.48	NOT DETECTED
44.	02-03-2023	75.41	40.62	27.17	34.29	0.95	4.03	NOT DETECTED
45.	06-03-2023	86.36	36.17	25.74	31.58	0.98	3.12	NOT DETECTED
46.	09-03-2023	78.72	32.96	24.68	28.49	1.14	4.18	NOT DETECTED
47.	13-03-2023	74.17	41.22	28.54	35.25	1.12	2.96	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.	16-03-2023	84.23	36.71	28.16	34.86	1.00	3.55	NOT DETECTED
49.	20-03-2023	88.98	42.58	31.32	39.13	1.12	3.75	NOT DETECTED
50.	23-03-2023	76.63	35.93	29.65	36.29	1.00	4.25	NOT DETECTED
51.	27-03-2023	86.24	31.47	26.96	31.83	1.14	3.38	NOT DETECTED
52.	30-03-2023	89.58	38.25	19.63	25.58	1.11	3.15	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		WTP- Nr. CETP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	03-10-2022	86.52	34.56	15.67	21.44	NOT DETECTED
2.	06-10-2022	82.35	27.86	13.45	18.78	--
3.	10-10-2022	89.34	30.23	18.78	24.56	--
4.	13-10-2022	78.44	24.21	21.34	27.67	--
5.	17-10-2022	85.67	26.57	20.45	24.56	--
6.	20-10-2022	81.07	37.68	22.45	28.79	--
7.	27-10-2022	87.42	26.75	22.46	27.65	--
8.	28-10-2022	74.56	23.28	19.89	25.61	--
9.	31-10-2022	81.52	27.9	23.48	29.35	--
10.	03-11-2022	72.34	26.12	15.21	21.45	--
11.	07-11-2022	82.34	29.34	15.67	22.34	--
12.	10-11-2022	89.15	37.12	14.23	19.38	--
13.	14-11-2022	88.12	32.69	17.23	24.56	--
14.	17-11-2022	73.45	28.72	22.34	29.35	--
15.	21-11-2022	81.23	36.29	20.15	27.68	--

Continue...

Name of Location		WTP- Nr. CETP				
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
16.	24-11-2022	65.78	23.42	23.18	28.55	--
17.	28-11-2022	77.23	29.56	24.17	31.25	--
18.	01-12-2022	62.58	34.26	20.38	26.23	--
19.	05-12-2022	67.36	36.49	18.74	24.18	--
20.	08-12-2022	74.24	26.75	17.27	23.68	--
21.	12-12-2022	69.26	39.17	23.59	29.52	--
22.	15-12-2022	87.57	34.98	16.63	21.39	--
23.	19-12-2022	72.5	29.47	13.93	18.48	--
24.	22-12-2022	84.27	31.41	16.38	25.67	--
25.	26-12-2022	81.38	37.19	21.64	28.41	--
26.	29-12-2022	76.62	24.82	18.39	27.46	--
27.	02-01-2023	67.18	39.72	24.47	31.92	0.07
28.	05-01-2023	83.72	43.47	26.25	32.53	--
29.	09-01-2023	88.62	34.79	21.38	27.44	--
30.	12-01-2023	76.24	28.61	20.88	25.73	--
31.	16-01-2023	68.62	27.36	19.73	28.48	--

Continue...

Name of Location		WTP- Nr. CETP				
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
32.	19-01-2023	88.23	38.57	24.42	33.62	--
33.	23-01-2023	68.24	37.18	22.87	27.16	--
34.	26-01-2023	62.4	45.66	27.34	34.63	--
35.	30-01-2023	82.27	34.32	24.28	31.27	--
36.	02-02-2023	89.17	43.76	30.69	37.28	--
37.	06-02-2023	83.68	32.48	21.35	28.93	--
38.	09-02-2023	76.06	37.53	18.16	26.55	--
39.	13-02-2023	87.29	35.42	27.53	36.19	--
40.	16-02-2023	71.53	33.73	29.93	38.61	--
41.	20-02-2023	85.16	31.96	32.39	39.46	--
42.	23-02-2023	87.52	42.09	28.31	34.83	--
43.	27-02-2023	79.26	32.58	22.79	31.18	--
44.	02-03-2023	86.38	35.82	24.18	31.64	--
45.	06-03-2023	83.54	27.19	27.63	36.81	--
46.	09-03-2023	71.49	31.47	23.38	29.42	--
47.	13-03-2023	86.51	42.87	31.48	39.53	--

Continue...

Name of Location		WTP- Nr. CETP				
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
48.	16-03-2023	81.28	40.16	25.96	32.47	--
49.	20-03-2023	78.51	37.55	28.17	34.28	--
50.	23-03-2023	86.42	33.75	23.18	27.06	--
51.	27-03-2023	71.32	38.19	29.73	35.62	--
52.	30-03-2023	82.74	41.78	32.57	41.48	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		SAMUDRA TOWNSHIP – STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	03-10-2022	73.9	21.4	13.45	17.68	NOT DETECTED
2.	06-10-2022	66.5	17.6	15.65	22.34	--
3.	10-10-2022	89.53	25.68	14.34	20.13	--
4.	13-10-2022	76.28	21.23	12.56	17.43	--
5.	17-10-2022	81.4	28.76	11.21	15.56	--
6.	20-10-2022	65.92	19.55	10.15	16.78	--
7.	27-10-2022	77.67	22.34	12.65	18.94	--
8.	28-10-2022	75.51	26.78	10.45	15.67	--
9.	31-10-2022	63.75	18.94	12.45	18.93	--
10.	03-11-2022	54.23	23.45	11.25	16.78	--
11.	07-11-2022	79.14	28.23	12.68	17.23	--
12.	10-11-2022	62.34	20.17	14.56	20.17	--
13.	14-11-2022	69.22	25.34	17.98	23.45	--
14.	17-11-2022	59.63	19.55	12.34	16.78	--
15.	21-11-2022	72.34	33.67	11.25	15.21	--

Continue...

Name of Location		SAMUDRA TOWNSHIP – STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
16.	24-11-2022	77.45	29.16	16.35	19.25	--
17.	28-11-2022	68.35	26.12	13.35	15.84	--
18.	01-12-2022	67.29	19.57	18.39	26.63	--
19.	05-12-2022	63.61	23.73	16.42	23.58	--
20.	08-12-2022	84.57	16.35	11.74	16.37	--
21.	12-12-2022	60.54	29.51	15.63	19.88	--
22.	15-12-2022	74.58	27.93	19.24	27.63	--
23.	19-12-2022	59.5	26.48	16.73	24.12	--
24.	22-12-2022	68.13	21.26	20.58	29.65	--
25.	26-12-2022	71.69	32.37	17.41	22.28	--
26.	29-12-2022	69.24	27.04	21.82	28.37	--
27.	02-01-2023	88.37	24.53	22.14	31.83	NOT DETECTED
28.	05-01-2023	71.62	27.66	19.97	21.35	--
29.	09-01-2023	89.41	23.49	17.27	20.69	--
30.	12-01-2023	75.39	21.84	23.69	29.74	--
31.	16-01-2023	61.33	33.59	24.17	34.28	--

Continue...

Name of Location		SAMUDRA TOWNSHIP – STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
32.	19-01-2023	82.17	29.62	20.89	28.31	--
33.	23-01-2023	52.74	27.57	26.36	36.02	--
34.	26-01-2023	63.29	22.78	22.41	28.76	--
35.	30-01-2023	73.64	31.26	26.48	33.14	--
36.	02-02-2023	79.63	17.35	20.68	27.55	--
37.	06-02-2023	86.38	23.69	26.52	36.17	--
38.	09-02-2023	72.83	29.13	24.77	31.46	--
39.	13-02-2023	81.62	27.34	18.89	25.6	--
40.	16-02-2023	75.26	24.81	29.63	39.15	--
41.	20-02-2023	89.37	19.68	24.35	33.89	--
42.	23-02-2023	69.74	32.28	21.26	29.63	--
43.	27-02-2023	73.59	26.47	28.92	34.29	--
44.	02-03-2023	81.62	21.85	23.27	32.71	--
45.	06-03-2023	75.27	19.79	21.86	27.47	--
46.	09-03-2023	87.3	25.62	28.27	35.21	--
47.	13-03-2023	73.16	31.16	25.84	33.59	--

Continue...

Name of Location		SAMUDRA TOWNSHIP – STP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
48.	16-03-2023	78.48	27.32	21.49	27.38	--
49.	20-03-2023	75.26	24.91	29.64	36.17	--
50.	23-03-2023	88.51	28.85	28.75	34.29	--
51.	27-03-2023	74.27	35.74	31.25	38.63	--
52.	30-03-2023	79.58	26.36	24.78	30.25	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
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Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	03-10-2022	71.23	22.34	11.24	17.89	NOT DETECTED
2.	06-10-2022	60.56	17.89	15.34	21.34	--
3.	10-10-2022	68.78	22.34	13.24	18.78	--
4.	13-10-2022	59.8	19.86	10.26	15.67	--
5.	17-10-2022	82.34	26.78	17.67	24.51	--
6.	20-10-2022	75.56	28.78	21.34	27.89	--
7.	27-10-2022	63.45	24.34	17.89	24.55	--
8.	28-10-2022	71.54	25.67	15.45	22.16	--
9.	31-10-2022	78.35	27.92	19.85	23.45	--
10.	03-11-2022	68.95	21.34	14.12	21.35	--
11.	07-11-2022	59.94	16.47	11.29	16.34	--
12.	10-11-2022	66.12	23.19	18.24	23.21	--
13.	14-11-2022	69.95	21.38	19.24	24.73	--
14.	17-11-2022	82.34	30.15	21.24	26.74	--
15.	21-11-2022	73.62	24.56	17.34	26.11	--

Continue...

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE				
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
16.	24-11-2022	80.12	26.78	13.28	21.4	--
17.	28-11-2022	65.38	23.45	17.45	26.16	--
18.	01-12-2022	79.27	16.38	17.63	28.46	--
19.	05-12-2022	66.43	19.46	18.54	25.38	--
20.	08-12-2022	78.56	17.32	13.49	31.73	--
21.	12-12-2022	62.36	27.49	24.55	29.68	--
22.	15-12-2022	69.58	21.72	27.59	34.43	--
23.	19-12-2022	83.16	18.53	24.41	28.18	--
24.	22-12-2022	65.39	22.86	19.63	27.42	--
25.	26-12-2022	74.06	27.62	26.57	32.44	--
26.	29-12-2022	64.38	23.49	21.24	28.93	--
27.	02-01-2023	79.24	26.46	26.23	31.48	NOT DETECTED
28.	05-01-2023	63.86	24.84	23.69	29.75	--
29.	09-01-2023	69.83	14.19	19.73	26.42	--
30.	12-01-2023	88.63	21.49	29.8	37.91	--
31.	16-01-2023	79.76	29.64	21.82	28.68	--

Continue...

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE				
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
32.	19-01-2023	81.49	26.39	17.13	24.33	--
33.	23-01-2023	75.13	31.38	14.48	22.89	--
34.	26-01-2023	87.36	26.14	22.47	27.36	--
35.	30-01-2023	72.14	32.48	26.36	31.24	--
36.	02-02-2023	87.39	26.46	26.23	31.48	--
37.	06-02-2023	79.62	24.84	23.69	29.75	--
38.	09-02-2023	83.74	14.19	19.73	26.42	--
39.	13-02-2023	76.53	21.49	29.8	37.91	--
40.	16-02-2023	82.19	29.64	21.82	28.68	--
41.	20-02-2023	87.66	26.39	17.13	24.33	--
42.	23-02-2023	89.38	31.38	14.48	22.89	--
43.	27-02-2023	73.19	26.14	22.47	27.36	--
44.	02-03-2023	73.52	37.61	29.17	36.74	--
45.	06-03-2023	86.18	29.49	27.64	31.59	--
46.	09-03-2023	83.73	34.18	33.62	39.47	--
47.	13-03-2023	81.35	27.93	25.79	31.57	--

Continue...

Name of Location		SAMUDRA TOWNSHIP CUSTOMER CARE				
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
48.	16-03-2023	79.73	25.13	28.19	33.81	--
49.	20-03-2023	75.38	28.19	23.85	28.47	--
50.	23-03-2023	88.63	38.88	31.47	38.55	--
51.	27-03-2023	88.41	29.16	28.52	35.27	--
52.	30-03-2023	82.85	32.18	31.94	38.63	--
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
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Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		AIR STRIP				
Sr. No.	Date of Monitoring	Parameter with Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1.	03-10-2022	86.28	29.74	18.93	31.41	0.06
2.	06-10-2022	83.84	32.28	21.74	26.73	0.04
3.	10-10-2022	79.52	27.59	19.14	18.37	0.03
4.	13-10-2022	73.92	24.26	14.61	23.53	0.05
5.	17-10-2022	78.72	26.85	14.38	20.78	0.03
6.	20-10-2022	69.61	30.83	19.22	25.24	0.08
7.	27-10-2022	88.24	32.88	20.16	32.23	0.04
8.	28-10-2022	82.96	27.19	13.72	22.73	0.06
9.	31-10-2022	78.48	30.39	17.53	27.74	0.06
10.	03-11-2022	72.34	27.69	12.35	18.95	0.06
11.	07-11-2022	68.15	25.68	17.36	26.13	0.02
12.	10-11-2022	80.14	31.24	14.55	22.34	0.06
13.	14-11-2022	62.34	35.23	17.23	21.59	0.05
14.	17-11-2022	68.59	27.49	15.12	23.63	0.03
15.	21-11-2022	79.23	28.15	21.34	30.25	0.04

Continue...

Name of Location		AIR STRIP				
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
16.	24-11-2022	82.34	32.51	19.26	24.55	0.02
17.	28-11-2022	71.27	34.74	22.15	28.12	0.05
18.	01-12-2022	87.26	36.31	19.22	27.73	0.04
19.	05-12-2022	76.4	32.69	24.64	34.58	0.05
20.	08-12-2022	63.53	27.84	21.46	29.71	0.06
21.	12-12-2022	69.17	28.49	23.58	32.93	0.04
22.	15-12-2022	84.38	35.96	17.61	27.31	0.06
23.	19-12-2022	88.53	33.84	27.02	36.86	0.06
24.	22-12-2022	71.64	39.57	26.62	31.79	0.03
25.	26-12-2022	86.19	29.12	27.58	32.16	0.05
26.	29-12-2022	75.38	32.79	22.73	28.14	0.05
27.	02-01-2023	69.38	39.26	14.39	26.84	0.08
28.	05-01-2023	85.42	37.48	29.74	38.46	0.06
29.	09-01-2023	79.5	36.21	27.39	36.82	0.04
30.	12-01-2023	72.37	33.64	26.29	28.48	0.13
31.	16-01-2023	67.52	39.72	24.53	36.64	0.06

Continue...

Name of Location		AIR STRIP				
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
32.	19-01-2023	73.49	43.18	21.39	32.96	0.09
33.	23-01-2023	81.96	29.46	28.73	34.27	0.05
34.	26-01-2023	78.36	27.93	23.72	31.28	0.07
35.	30-01-2023	84.27	38.43	28.27	36.38	0.05
36.	02-02-2023	83.48	32.67	18.37	29.71	0.09
37.	06-02-2023	87.24	43.5	21.37	34.88	0.13
38.	09-02-2023	76.59	39.13	16.84	27.93	0.1
39.	13-02-2023	89.61	37.82	19.37	31.84	0.05
40.	16-02-2023	75.05	31.49	21.93	32.27	0.08
41.	20-02-2023	85.74	36.57	27.28	38.46	0.16
42.	23-02-2023	72.18	41.28	31.47	39.82	0.07
43.	27-02-2023	86.39	38.31	29.64	37.16	0.08
44.	02-03-2023	89.36	41.38	23.19	31.58	0.11
45.	06-03-2023	83.65	37.18	26.63	29.84	0.16
46.	09-03-2023	84.68	34.79	21.1	28.62	0.13
47.	13-03-2023	76.25	39.76	26.49	34.36	0.08

Continue...

Name of Location		AIR STRIP				
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
48.	16-03-2023	82.16	35.53	17.47	26.85	0.11
49.	20-03-2023	86.19	31.28	21.55	29.26	0.14
50.	23-03-2023	73.96	38.36	27.94	34.81	0.1
51.	27-03-2023	81.39	34.91	24.73	28.46	0.13
52.	30-03-2023	88.37	32.48	28.13	36.81	0.09
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		PUB / Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		03-10-2022	03-11-2022	01-12-2022	02-01-2023	02-02-2023	02-03-2023
1	06:00 to 07:00	62.5	63.8	62.7	61.8	60.6	62.4
2	07:00 to 08:00	66.1	61.4	64.2	63.5	62.5	61.8
3	08:00 to 09:00	68.2	58.7	63.1	62.8	60.9	63.7
4	09:00 to 10:00	62.4	62.6	65.6	62.4	63.2	63.2
5	10:00 to 11:00	67.8	68.7	64.2	63.4	67.4	64.2
6	11:00 to 12:00	64	63.4	67.9	69.6	65.2	61.8
7	12:00 to 13:00	61.3	69.7	64.3	65.7	68.9	65.9
8	13:00 to 14:00	65.9	62.1	63.2	64.2	64.8	63.1
9	14:00 to 15:00	64.2	62.5	66.5	67.5	63.6	66.3
10	15:00 to 16:00	63.7	61.8	65.2	67.1	61.8	62.9
11	16:00 to 17:00	67	65.5	64.5	63.8	66.4	64.7
12	17:00 to 18:00	65.3	64.1	65.1	64.9	67.9	64.3
13	18:00 to 19:00	69.1	59.2	62.7	63.8	58.2	60.1
14	19:00 to 20:00	66.7	68.3	61.3	65.4	67	63.4
15	20:00 to 21:00	61.8	63.3	60.2	63.9	61.9	62.7
16	21:00 to 22:00	60.4	66.3	60.8	62.5	65.3	61.2
Day Time		<75 dB (A)					

Continue...

Location Name		PUB / Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		03-10-2022	03-11-2022	01-12-2022	02-01-2023	02-02-2023	02-03-2023
1	22:00 to 23:00	63.6	56.3	58.7	60.3	57.3	58.4
2	23:00 to 24:00	64.2	57.8	61.6	62.3	56.2	54.2
3	24:00 to 01:00	63.4	54.3	60.7	59.8	54.3	55.7
4	01:00 to 02:00	64.1	58.6	60.6	60.6	57.4	58.3
5	02:00 to 03:00	58.6	59.3	59.3	58.1	60.1	59.2
6	03:00 to 04:00	58.2	55.8	60.5	59.2	56.3	57.9
7	04:00 to 05:00	64.2	59.2	61.3	60.5	59.2	55.4
8	05:00 to 06:00	61.3	57.4	62.7	61.3	58.3	57.8

Night Time	<70 dB (A)
Test Method	IS: 9989 : 1981



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		04/10/2022	09/11/2022	03/12/2022	04/01/2023	08/02/2023	04/03/2023
1	06:00 to 07:00	63.6	58.3	62.4	62.1	59.4	59.4
2	07:00 to 08:00	63.5	63.2	65.4	64.8	62.7	61.7
3	08:00 to 09:00	58.9	66.8	65.1	64.3	65.4	63.8
4	09:00 to 10:00	62.4	64.5	65.9	66.9	63.9	67.4
5	10:00 to 11:00	67.8	68.6	68.4	67.5	67	64.3
6	11:00 to 12:00	69.5	65.2	67.3	67.3	67.8	65.8
7	12:00 to 13:00	68.1	67.1	63.9	63.9	63.8	65.2
8	13:00 to 14:00	66.2	66.1	66.1	67.4	63.2	69.4
9	14:00 to 15:00	62.3	69	61.8	61.8	62.4	63.2
10	15:00 to 16:00	65.5	68.2	63.4	64.2	62.5	63.1
11	16:00 to 17:00	67.4	66.9	64.6	67.5	67.1	68.4
12	17:00 to 18:00	60.5	62.8	62.8	69	63.9	65
13	18:00 to 19:00	61.8	65.8	62.5	64.8	67.4	68.4
14	19:00 to 20:00	60.2	61.3	61.3	62.8	63.2	61.2
15	20:00 to 21:00	59.3	68.9	63.5	63.5	67.6	64.9
16	21:00 to 22:00	58.8	65.7	62.7	63.7	68.7	63.6
Day Time		<75 dB (A)					

Continue...

Location Name		WTP- Nr. CETP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		04/10/2022	09/11/2022	03/12/2022	04/01/2023	08/02/2023	04/03/2023
1	22:00 to 23:00	57.2	59.5	61.2	58.6	56.4	55.7
2	23:00 to 24:00	60.2	56.8	60.5	61.3	57.3	57.3
3	24:00 to 01:00	57.6	56.2	61.3	61.4	57.8	57.8
4	01:00 to 02:00	55.3	60.7	63.9	63.9	59.2	59.1
5	02:00 to 03:00	55.5	56.2	58.5	59.7	57.6	56.8
6	03:00 to 04:00	57.8	59.3	59.4	60.2	59.3	57.3
7	04:00 to 05:00	56.2	55.7	60.2	63.5	56.8	58.2
8	05:00 to 06:00	58.9	57.1	63.6	62.7	58.3	59.3

Night Time	<70 dB (A)
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Test Method	IS: 9989 : 1981
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Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		SAMUDRA TOWNSHIP – STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		12/10/2022	15/11/2022	10/12/2022	11/01/2023	14/02/2023	11/03/2023
1	06:00 to 07:00	60.9	63.9	62.3	61.8	62.8	62.1
2	07:00 to 08:00	61.4	61.2	64.8	65.2	62.3	63.4
3	08:00 to 09:00	66.7	67.8	66.4	65.7	68.9	63.8
4	09:00 to 10:00	63.3	66.3	67.8	67.8	67.1	61.3
5	10:00 to 11:00	68.2	63.2	64.9	64.9	64.8	67.8
6	11:00 to 12:00	65.4	67.3	68.4	67.1	65.5	63.2
7	12:00 to 13:00	63.9	64.2	62.5	63.6	63.8	68.4
8	13:00 to 14:00	67.1	62.9	63.6	67.4	63.2	62.1
9	14:00 to 15:00	62.6	65.4	65.4	65.4	67.9	66.8
10	15:00 to 16:00	65.5	69.1	63.7	66.6	65.1	64.3
11	16:00 to 17:00	62.7	65.5	67.5	67.5	68.4	67.5
12	17:00 to 18:00	69.2	68.9	66.1	62.5	68.9	65.8
13	18:00 to 19:00	62	61.3	64.1	64.1	61.3	64.3
14	19:00 to 20:00	62.3	64.2	64.2	63	63.5	64.9
15	20:00 to 21:00	60.6	67.5	63.2	63.2	67.5	65.4
16	21:00 to 22:00	62.3	61.3	62.4	61.4	62.8	60.1
Day Time		<75 dB (A)					

Continue...

Location Name		SAMUDRA TOWNSHIP – STP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		12/10/2022	15/11/2022	10/12/2022	11/01/2023	14/02/2023	11/03/2023
1	22:00 to 23:00	58.7	59.4	57.4	57.9	60.7	59.3
2	23:00 to 24:00	54.3	56.7	58.3	58.3	57.3	59.1
3	24:00 to 01:00	55.6	56.8	55.9	57.3	56.8	61.6
4	01:00 to 02:00	57.3	58.9	60.3	61.2	58.9	56.4
5	02:00 to 03:00	52.6	54.2	56.8	58.9	54.9	57.4
6	03:00 to 04:00	56.8	57.6	58.4	58.4	58.2	56.9
7	04:00 to 05:00	55.1	58.4	59.1	60.3	58.4	58.4
8	05:00 to 06:00	59.3	61.5	58.2	59.3	59.7	57.5

Night Time	<70 dB (A)
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Test Method	IS: 9989 : 1981
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Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		SAMUDRA TOWNSHIP CUSTOMER CARE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		18/10/2022	23/11/2022	17/12/2022	20/01/2023	21/02/2023	18/03/2023
1	06:00 to 07:00	58.4	60.2	60.6	58.3	60.9	60.3
2	07:00 to 08:00	64.3	64.7	59.6	60.2	63.1	62.7
3	08:00 to 09:00	60.5	65.4	62.3	62.3	65.4	66.4
4	09:00 to 10:00	68.4	64.5	68.4	65.7	63.7	68.4
5	10:00 to 11:00	64.5	65.4	63.9	65.9	65.4	64.3
6	11:00 to 12:00	63.3	65.5	64.2	62.7	66.8	62.8
7	12:00 to 13:00	66.1	67.9	63.2	64.8	67.9	66.5
8	13:00 to 14:00	61.4	61.9	63.7	67.5	62.4	64.2
9	14:00 to 15:00	61.8	65.8	62.5	63.4	67.5	68.5
10	15:00 to 16:00	63.2	64.2	65.8	69.1	64.2	65.3
11	16:00 to 17:00	63.2	63.8	61.5	63.6	62.4	64.3
12	17:00 to 18:00	66.6	61.6	63.4	63.4	61.6	63.6
13	18:00 to 19:00	62.1	60.2	60.2	60.2	65.9	62.7
14	19:00 to 20:00	60.2	61.5	62.2	64.8	61.5	64.8
15	20:00 to 21:00	59.7	63	60.5	60.5	64.7	61.3
16	21:00 to 22:00	59.8	62.7	60.8	64.8	61.1	59.6
Day Time		<75 dB (A)					

Continue...

Location Name		SAMUDRA TOWNSHIP CUSTOMER CARE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		18/10/2022	23/11/2022	17/12/2022	20/01/2023	21/02/2023	18/03/2023
1	22:00 to 23:00	57.6	56.9	59.6	60.3	58.5	56
2	23:00 to 24:00	56.4	57.5	59.9	60.7	56.8	58.4
3	24:00 to 01:00	54.3	57.2	62.6	62.6	59.3	56.8
4	01:00 to 02:00	56.9	57.1	61.8	62.8	59	57.5
5	02:00 to 03:00	55.4	56.6	60.3	57.3	57.8	61.2
6	03:00 to 04:00	58.2	54.5	58.5	58.5	55.2	58.5
7	04:00 to 05:00	60.3	59.4	59.4	59.4	58.4	58.5
8	05:00 to 06:00	57.6	56.3	60.8	59.8	56.3	56.9

Night Time	<70 dB (A)
Test Method	IS: 9989 : 1981



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		21/10/2022	26/11/2022	24/12/2022	24/01/2023	25/02/2023	25/03/2023
1	06:00 to 07:00	61.1	62.9	61.1	60.5	59.8	63.7
2	07:00 to 08:00	68.5	61.5	63.5	62.7	62.7	64.2
3	08:00 to 09:00	65.5	63.3	64.3	63.9	67.8	63.8
4	09:00 to 10:00	63.3	62.3	64.8	65.1	64.5	65.8
5	10:00 to 11:00	65.7	61.2	62.4	67.3	61.2	64.9
6	11:00 to 12:00	62.8	63.4	63.4	66.9	68.4	67
7	12:00 to 13:00	68.2	67.4	65.8	63.2	64.2	63.8
8	13:00 to 14:00	65.6	68	62.9	62.9	69.1	67.5
9	14:00 to 15:00	64.2	63.7	64.9	64.9	65.8	66.3
10	15:00 to 16:00	68.2	63.6	64.7	63.3	64.3	62.5
11	16:00 to 17:00	63.6	65.1	65.3	67.5	67.2	68.4
12	17:00 to 18:00	67.2	63.2	63.2	64.7	63.2	65.4
13	18:00 to 19:00	68.7	60.4	60.4	62.4	60.4	64.1
14	19:00 to 20:00	68.5	60.6	60.1	62.5	60.9	63
15	20:00 to 21:00	61.1	59.6	58.5	58.5	62.6	62.7
16	21:00 to 22:00	60.9	61.8	63.6	62.8	63.6	62.4
Day Time		<75 dB (A)					

Continue...

Location Name		AIR STRIP					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		21/10/2022	26/11/2022	24/12/2022	24/01/2023	25/02/2023	25/03/2023
1	22:00 to 23:00	59.6	55.8	60.7	58.4	57.3	58.5
2	23:00 to 24:00	57.4	56.8	57.8	57.8	58.1	57.4
3	24:00 to 01:00	63.5	59.3	59.1	58.3	60.4	57.9
4	01:00 to 02:00	60.7	56.2	62.1	61.2	57.8	59.3
5	02:00 to 03:00	60.2	56.4	58.4	59	57.6	57.2
6	03:00 to 04:00	63.8	61.3	58.7	58.7	60.3	61.7
7	04:00 to 05:00	58.2	57.3	60.8	61.1	57.8	56.4
8	05:00 to 06:00	62.1	58.7	62.2	62.1	58.7	58.1

Night Time	<70 dB (A)
Test Method	IS: 9989 : 1981



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring

Monitoring Period: October - 2022 to March - 2023

Sr. No.	Parameter	Unit	Adani Hospital DG Set	GPCB LIMIT	Method of Test
			Feb-23		
			01-02-2023		
1	Particulate Matter	mg/Nm ³	15.26	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	6.18	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	23.42	50	IS 11255 (Part - 7)

Sr. No.	Parameter	Unit	WTP Nr CETP D.G.Set No. S-1 (380 KVA)	GPCB LIMIT	Method of Test
			Dec-22		
			15-12-2022		
1	Particulate Matter	mg/Nm ³	18.4	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	6.8	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	24.7	50	IS 11255 (Part - 7)



Nikunj D. Patel
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Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring					
Monitoring Period: October - 2022 to March - 2023					
Sr. No.	Parameter	Unit	Adani House D.G.Set No. S-1 (750 KVA)	GPCB LIMIT	Method of Test
			Mar-23		
			28-03-2023		
1	Particulate Matter	mg/Nm ³	19.29	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	7.87	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	22.46	50	IS 11255 (Part - 7)

Sr. No.	Parameter	Unit	D.G.Set No. S-2 (500 KVA –PUB)	GPCB LIMIT	Method of Test
			Mar-23		
			28-03-2023		
1	Particulate Matter	mg/Nm ³	18.8	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	6.9	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	27.2	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

RESULTS OF BOREHOLE WATER SAMPLE

Sr. No	Parameters	Method	Unit	23-02-2023	23-02-2023	23-02-2023	23-02-2023
				Nr. PUB Building.	Nr. CETP	Nr.flyover bridge	Dhrub
1	pH @ 25 ° C	IS 3025(Part 11)1983	--	7.06	8.01	7.5	7.52
2	Salinity	APHA 23rd Ed.,2017,2520 B	ppt	21.38	2.2	10.48	3.3
3	Oil & Grease	IS 3025(Part39)1991, Amd. 2	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)
4	Hydrocarbon	GC/GCMS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
5	Lead as Pb	IS 3025 (PART 47) 1994	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	0.038
6	Arsenic as As	APHA 23rd Ed.,2017,3114-C	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)
7	Nickel as Ni	IS 3025 (PART 54) 2003	mg/L	0.374	0.046	0.201	0.042
8	Total Chromium as Cr	IS 3025 (PART 52) 2003	mg/L	0.064	BDL(MDL:0.05)	0.009	BDL(MDL:0.05)
9	Cadmium as Cd	IS 3025(PART 41) 1992	mg/L	0.194	BDL(MDL:0.003)	0.086	0.053
10	Mercury as Hg	APHA 23rd Ed.,2017, 3112-B	mg/L	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)
11	Zinc as Zn	IS 3025(PART 49) 1994	mg/L	0.265	BDL(MDL:0.05)	0.137	BDL(MDL:0.05)
12	Copper as Cu	IS 3025 (PART 42) 1992	mg/L	0.073	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)
13	Iron as Fe	IS 3025(PART 53) 2003	mg/L	0.459	BDL(MDL:0.1)	0.226	BDL(MDL:0.1)
14	Insecticides/Pesticides	USEPA 8081 B	µg/L	Absent	Absent	Absent	Absent
15	Depth of Water Level from Ground Level	--	meter	2.2	2.3	2.2	2.2



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

RESULTS OF SOIL SAMPLE

SR.NO.	TEST PARAMETERS	UNIT	13-02-2023	13-02-2023	13-02-2023	13-02-2023
			PUB Building	Dhrub	Near Flyover Bridge	Near CETP
1	pH	--	9.16	8.43	8.54	8.77
2	Nitrogen as N	%	0.12	0.28	0.22	0.26
3	Phosphorus as P	mg/kg	1393.6	599.7	798.7	398.6
4	Potassium as K	mg/kg	48.59	1223.9	219.6	151.1
5	Boron as B	mg/kg	1.94	1.98	2.14	3.12
6	Calcium as Ca	mg/kg	321.1	3154.7	969.6	322.4
7	Magnesium as Mg	mg/kg	146	4904.3	440.9	48.9
8	Iron as Fe	%	0.50	0.97	0.88	0.75
9	Moisture	%	0.43	3.03	0.29	1.44
10	Organic Matter	%	0.52	1.67	1.57	1.38
11	Cation exchange capacity (CEC)	meq/100gm	9.46	14.58	10.12	9.74
12	TVC	CFU/gm	2.8x10 ⁶	2.8 x 10 ⁶	2.2 x 10 ⁶	1.9 x 10 ⁶
13	Cadmium as Cd	mg/kg	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)
14	Thorium as Th	mg/kg	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)
15	Antimony as Sb	mg/kg	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)
16	Arsenic as As	mg/kg	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)	BDL(MDL:1.0)

Continue...

17	Lead as Pb	mg/kg	8.09	8.68	17.81	7
18	Chromium as Cr	mg/kg	3.84	8.74	4.33	4.32
19	Cobalt as Co	mg/kg	10.4	10.42	8.89	9.69
20	Copper as Cu	mg/kg	7.51	11.27	29.8	15.41
21	Nickel as Ni	mg/kg	11	13.74	13.02	13.28
22	Manganese and Mn	mg/kg	330.3	208.2	218.81	116.58
23	Vanadium as V	mg/kg	8.96	8.02	8.62	8.11



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

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	1-30 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	1 µg/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

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

STP OUTLET

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