

Ref No. APSEZL/EnvCell/2024-25/055

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 (WFDP-West Port)**.

Ref: 1. Consent Order No. AWH – 113458 issue dated 28.06.2021 Valid till 01.02.2027.

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 Special Economic Zone Limited (WFDP-West Port), Village: Tunda, 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**



Authorized Signatory

5/9/24
Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

Encl: As above.

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

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	:	Dry Cargo Handling: 6,00,00,000 MT/Month
(iv)	Year of Establishment	:	2011
(v)	Date of last Environment Statement submitted	:	11/09/2023

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	Average
Process	Nil
Gardening / Horticulture / Sprinkling	2593.82 m ³ /day
Domestic	20.84 m ³ /day

Details of Water Consumption for the year 2023-24 are 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 Dry Cargo*	0.049 KL/MT of Cargo Handled	0.032 KL/MT of Cargo Handled

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

(ii) Raw Material Consumption

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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)
The West Basin is a part of Waterfront Development Project of APSEZL. The West Basin is handling Coal	Dry Cargo Handling	19.69 MMT	29.96 MMT

*** Unit does not go under any manufacturing process. It is service industry for dry cargo handling, storage and distribution.**

PART – C

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

Pollutants	Quantity of pollutants discharged (Mass/day)		Concentrations of pollutants in discharges (mass/volume)		Percentage of variation from prescribed standards with reasons
	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(a) Waste Water (Domestic sewage)	pH	--	pH	7.33	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. From STP, 6103 KL treated water discharged during April 2023 – March 2024. Which is being used for the horticulture/plantation. 2. Analysis reports of treated water are enclosed as Annexure – 2 .
	Total Suspended Solids	0.42	Total Suspended Solids (mg/l)	24.88	
	BOD (5 Days @ 20 oC)	0.28	BOD (5 Days @ 20 °C) (mg/l)	16.94	
	Residual Chlorine	0.01	Residual Chlorine (mg/l)	0.79	
	Fecal Coliform	1.36	Fecal Coliform (MPN/100ml)	81	
(b) Air (DG Stack 1500 + 1500 KVA)	Particulate Matter (PM)	0.0074	Particulate Matter (PM) (mg/Nm ³)	20.32	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. DG sets having capacities 1500 KVA + 1500 KVA are provided as a standby power source and used during power failure. Analysis reports of stack monitoring
	Sulphur Dioxide (SO ₂)	0.0153	Sulphur Dioxide (SO ₂) (ppm)	16.44	

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	Nitrogen Oxide (NOx)	0.0147	Nitrogen Oxide (NOx) (ppm)	22.08	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 .
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*** Unit does not go under any manufacturing process, as it is service industry (Port) engaged in Handling & Storage of general dry cargo. The source of waste water generation is from domestic activity only.**

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited (WFDP-West Port)

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PART – D

Hazardous Wastes

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2022-23)	During the current financial year (2023-24)
(a) From Process	a) Oily Cotton Waste (cat.33.2): 19.070 MT b) Used oil (cat.5.1)- 30.603 MT a) Discarded Containers (33.1) – NIL	c) Oily Cotton Waste (cat.33.2): 11.270 MT d) Used oil (cat.5.1)- 46.652 MT e) Discarded Containers (33.1) – NIL
(a) From Pollution Control facilities	Nil	Nil

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

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

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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:

- The West Basin is handling dry cargo mainly coal with integrated mechanized automation and there is no any manufacturing process involve.
- The spent / used oil and discarded containers collect and store at dedicated Hazardous Waste storage facility available with organization which is disposed by selling to registered reprocessor / recyclers.
- Oily cotton waste generated from maintenance activity is being disposed by Co-processing at cement industries.
- Sludge generated from STP is being utilized as manure in horticulture activity within APSEZ premises.
- Zero Waste" initiative - No waste is being sent to landfill or incineration facility @ Adani Ports & SEZ (also as a 100% subsidiary company of APSEZ, West Port is also intended to contribute the same), all waste are 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 into 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 being managed through Organic Waste Composting Facility and Biogas generation.
- 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:
 - 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.
 - Defined 3 Levels to achieve plastic free APSEZ.

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- 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.

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 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 tCo2e.

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

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

- ✓ Regular sprinkling on road and other open area
- ✓ Regular cleaning of roads
- ✓ Dry fog Dust Suppression System (DSS) in hopper,
- ✓ transfer towers and conveyor belts
- ✓ Use of water mist canon
- ✓ Closed type conveyor belts

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- ✓ Regular sprinkling on coal heaps
- ✓ Covering other types of dry bulk cargo heaps
- ✓ Installation of wind breaking wall
- ✓ Development of greenbelt along the periphery of the storage yards/back up area
- ✓ Mechanized handling system for coal and other dry bulk cargo
- ✓ Wagon loading and truck loading through closed silo
- ✓ D.G. Set having acoustic enclosures

PART – H

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

- Wind screen having 16.0 meter height has been provided around the coal stacks to abate the fugitive dust emission.
- West Basin is handled the coal with mechanized conveyerization system. This eliminates the dumper movements for coal transport and avoids air emission and spillage of coal and therefore prevents wastage of natural resources.
- Automatic (through water pressure) swiveling part circle sprinklers are provided along both side of each stockpile for dust suppression system.
- Coal unloaded through Grab Sampler Unit (GSU) is being transferred through conveyer belt to coal stock pile. Entire coal handling system starting from GSU to coal stock pile & from coal stock pile to wagon/truck loading silos is provided with Dry Fog Dust Suppression System.
- Apart from this, entire port is provided with closed conveying system to control fugitive dust emission. In addition each transfer point of closed conveyer has been provided with dry fogging system also.
- Settling pond provided at each stock pile to arrest silt particle from storm water drain.
- Mechanized & vacuum road sweeping machines have been deployed for regular cleaning of road and paved rack.
- Total mangrove conservation area is 2723 Ha and mangrove afforestation area is 4140 Ha. (250 ha during FY 2023-24).
- In West basin greenbelt area is approx. 104.29 hectare and having 3.15 lac saplings (tree+ palm).
- In entire APSEZ more than 457.99 ha. area is developed as greenbelt with samplings of more than 9.06 Lacs.

PART – I

Any other particulars for improving the quality of environment:

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- 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).
- Awareness program and training on waste management, water conservation, energy conservation for employees & their families, contractors, local community is being conducted on regular basis.
- APSEZ has Environment Cell for environmental management and environmental monitoring.
- 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 **1366.78** lakh is spent during the year FY 2023-24. Detailed breakup of the expenditures for the FY 2023-24 is attached as **Annexure - 4**.



Date: -02-09-2024

(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.**

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Annexure - 1

Details of Water Consumption and Treated Water Discharge

(Apr-23 to Mar-24)

Month	Water Consumption			Treated Water Discharge, KL
	Industrial, KL (Category-1)	Domestic, KL (Category-2)	Total, KL	
Apr-23	65206	386	65592	309
May-23	77796	380	78176	304
Jun-23	94631	619	95250	495
Jul-23	49319	838	50156	670
Aug-23	58913	744	59657	595
Sep-23	64661	788	65448	630
Oct-23	69887	838	70724	670
Nov-23	77196	793	77988	634
Dec-23	90608	625	91233	500
Jan-24	111544	608	112152	486
Feb-24	94882	486	95368	389
Mar-24	94696	526	95222	421
Total	949337	7629	956966	6103
Per Month	79111.43	635.73	79747.16	508.58
Per Day	2593.82	20.84	2614.66	16.67

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**ANNEXURE - 3
Waste Disposal Details, 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.	Oily Cotton Waste:	Co-processing/Incineration	MT	19.070	11.270
2.	Used Oil:	Recycle (send to recycler)	MT	30.603	46.652
3.	Discarded Containers:	Recycle (send to recycler)	MT	NIL	NIL

ANNEXURE - 4

Environment Statement for 2023-24 for M/s Adani Ports & SEZ Limited (WFDP-West Port)

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**Cost of Environmental Protection Measures of APSEZ, Mundra
F.Y. 2023-24**

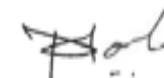
Sr. No.	Activity	Cost incurred (INR in Lacs)	Budgeted Cost (INR in Lacs)
		2023 - 24	2023 - 24
1.	Environmental Study / Audit and Consultancy	22.67	27
2.	Legal & Statutory Expenses	8.60	13
3.	Environmental Monitoring Services	13.37	19.20
4.	Hazardous / Non-Hazardous Waste Management & Disposal	130.11	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	1366.78	1536.48

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	WFDP WEST PORT STP OUTLET						GPCB Permissible Limit	TEST METHOD
			Apr-23		May-23		Jun-23			
			10-04-2023	20-04-2023	13-05-2023	29-05-2023	12-06-2023	22-06-2023		
1.	pH @ 25 ° C	--	7.09	7.18	7.32	7.26	7.19	7.39	6.5 to 9	APHA 23 rd Ed.,2017,4500-H*B
2.	Total Suspended Solids	mg/L	22	24	28	20	24	28	100	APHA 23 rd Ed.,2017,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	18	16	15	17	18	19	30	APHA 23 rd Ed.,2017,5210-B 5-6
4.	Residual chlorine	mg/L	0.82	0.88	0.91	0.86	0.74	0.78	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B
5.	Fecal Coliform	MPN Index/100ml	130	80	130	90	80	60	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist

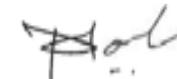
Mr. Nitin Tandel
Technical Manager

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	WFDP WEST PORT STP OUTLET						GPCB Permissible Limit	TEST METHOD
			Jul-23		Aug-23		Sep-23			
			13-07-2023	25-07-2023	11-08-2023	23-08-2023	12-09-2023	21-09-2023		
1.	pH @ 25 ° C	--	7.35	7.42	7.38	7.46	7.39	7.38	6.5 to 9	APHA 23 rd Ed.,2017,4500-H*B
2.	Total Suspended Solids	mg/L	26	32	24	28	22	24	100	APHA 23 rd Ed.,2017,2540 -D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	15	16	18	17	20	19	30	APHA 23 rd Ed,2017,5210-B 5-6
4.	Residual chlorine	mg/L	0.84	0.62	0.74	0.82	0.74	0.68	0.5 Min.	APHA 23 rd Ed.,2017,4500-CI-B
5.	Fecal Coliform	MPN Index/100ml	90	110	70	90	60	70	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

RESULTS OF ETP OUTLET WATER

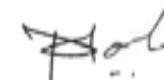
SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23		
			21-04-2023	29-05-2023	29-06-2023	25-07-2023	25-08-2023	14-09-2023		
1.	Colour	Pt. Co. Scale	50	40	50	40	50	50	100	IS 3025(Part 4)
2.	pH @ 27 ° C	--	7.41	6.74	7.26	7.36	7.44	7.52	6.5 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)	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		West Port – West Basin Main Gate						
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	85.89	47.24	34.78	40.47	2.47	--	NOT DETECTED
2.	06-04-2023	86.64	49.73	32.89	43.62	1.74	6.13	NOT DETECTED
3.	10-04-2023	89.75	43.55	37.27	45.92	1.04	4.62	NOT DETECTED
4.	13-04-2023	84.59	46.79	31.83	38.36	1.38	2.98	NOT DETECTED
5.	17-04-2023	89.13	41.32	36.13	42.76	0.93	3.67	NOT DETECTED
6.	20-04-2023	85.19	39.13	31.48	40.17	0.78	5.37	NOT DETECTED
7.	24-04-2023	88.98	41.24	29.68	36.95	0.85	4.14	NOT DETECTED
8.	27-04-2023	87.38	44.47	34.89	41.46	1.16	2.98	NOT DETECTED
9.	01-05-2023	87.82	47.87	39.95	44.62	1.27	4.96	NOT DETECTED
10.	04-05-2023	81.46	44.28	38.52	41.29	1.23	4.16	NOT DETECTED
11.	08-05-2023	85.49	49.84	42.18	48.63	1.36	6.94	NOT DETECTED
12.	11-05-2023	78.13	45.28	39.61	45.15	1.3	5.39	NOT DETECTED
13.	15-05-2023	86.94	41.57	32.78	39.73	1.24	5.16	NOT DETECTED
14.	18-05-2023	89.84	37.05	28.37	35.96	1.2	4.69	NOT DETECTED
15.	22-05-2023	72.41	43.49	36.51	39.72	1.15	5.25	NOT DETECTED

Continue...

Name of Location		West Port – West Basin Main Gate						
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	79.44	35.81	27.59	32.78	1.17	3.72	NOT DETECTED
17.	29-05-2023	86.91	41.2	31.64	37.16	1.3	4.38	NOT DETECTED
18.	01-06-2023	88.69	44.76	36.24	43.58	1	6.37	NOT DETECTED
19.	05-06-2023	84.09	40.36	31.48	39.74	1	5.98	NOT DETECTED
20.	08-06-2023	81.39	48.52	39.91	47.43	0.5	6.75	NOT DETECTED
21.	12-06-2023	86.85	37.62	31.37	36.28	0.7	4.62	NOT DETECTED
22.	15-06-2023	83.56	36.44	22.44	28.15	0.20	4.83	NOT DETECTED
23.	19-06-2023	78.96	27.15	18.15	23.1	0.1	2.58	NOT DETECTED
24.	22-06-2023	70.15	26.14	16.23	21.54	0.08	2.25	NOT DETECTED
25.	26-06-2023	62.15	25.16	14.26	18.53	0.1	4.74	NOT DETECTED
26.	29-06-2023	57.84	23.1	12.34	17.15	0.05	3.14	NOT DETECTED
27.	03-07-2023	70.17	32.48	22.61	28.27	0.08	--	NOT DETECTED
28.	06-07-2023	76.42	35.61	24.89	29.73	0.15	4.15	NOT DETECTED
29.	10-07-2023	67.38	30.88	19.52	22.39	0.05	3.46	NOT DETECTED
30.	13-07-2023	62.39	27.51	17.39	21.62	0.05	3.1	NOT DETECTED
31.	17-07-2023	70.51	31.28	20.63	25.81	0.1	4.63	NOT DETECTED

Continue...

Name of Location		West Port – West Basin Main Gate						
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	83.29	33.62	24.57	29.64	0.21	5.41	NOT DETECTED
33.	24-07-2023	77.31	30.49	21.37	26.93	0.15	3.98	NOT DETECTED
34.	27-07-2023	86.62	36.31	25.54	29.16	0.25	4.38	NOT DETECTED
35.	31-07-2023	80.13	34.68	22.49	25.43	0.2	3.13	NOT DETECTED
36.	03-08-2023	68.85	27.9	25.38	29.54	0.74	3.25	NOT DETECTED
37.	07-08-2023	82.61	35.88	31.65	35.23	0.9	3.76	NOT DETECTED
38.	10-08-2023	74.77	29.78	28.69	32.14	0.86	4.62	NOT DETECTED
39.	14-08-2023	80.63	34.13	33.56	37.01	0.94	3.68	NOT DETECTED
40.	17-08-2023	87.56	36.61	35.12	38.65	1	4.96	NOT DETECTED
41.	21-08-2023	72.94	40.98	37.17	40.31	1.08	5.16	NOT DETECTED
42.	24-08-2023	85.67	41.18	39.52	43.95	1.14	5.79	NOT DETECTED
43.	28-08-2023	88.67	36.59	34.38	37.47	1	4.13	NOT DETECTED
44.	31-08-2023	81.53	39.87	38.51	42.32	1.1	5.92	NOT DETECTED
45.	04-09-2023	74.72	33.38	28.61	31.47	1.03	4.36	NOT DETECTED
46.	07-09-2023	78.51	35.62	31.49	34.26	1	4.79	NOT DETECTED
47.	11-09-2023	81.29	36.42	32.46	37.52	1.05	5.03	NOT DETECTED

Continue...

Name of Location		West Port – West Basin Main Gate						
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	83.48	38.63	35.22	40.1	1.1	5.23	NOT DETECTED
49.	18-09-2023	76.29	34.61	27.87	32.42	0.95	3.63	NOT DETECTED
50.	21-09-2023	74.61	31.94	25.17	29.86	0.91	3.37	NOT DETECTED
51.	25-09-2023	79.71	35.66	30.83	35.26	0.97	3.91	NOT DETECTED
52.	28-09-2023	76.38	32.41	28.73	32.55	0.95	3.75	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		West Port – Horti Culture						
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	86.23	44.38	34.27	41.46	1.17		NOT DETECTED
2.	06-04-2023	89.85	38.52	30.67	16.73	1.12	3.65	NOT DETECTED
3.	10-04-2023	83.67	34.41	27.53	31.68	0.95	2.37	NOT DETECTED
4.	13-04-2023	75.89	37.88	31.13	38.52	1.12	3.16	NOT DETECTED
5.	17-04-2023	87.19	46.56	34.73	39.84	1.21	5.24	NOT DETECTED
6.	20-04-2023	85.49	36.19	27.68	32.47	0.92	2.79	NOT DETECTED
7.	24-04-2023	80.39	38.32	29.54	35.11	1.07	4.26	NOT DETECTED
8.	27-04-2023	87.96	34.89	26.14	31.97	0.75	3.15	NOT DETECTED
9.	01-05-2023	80.78	39.34	38.48	42.19	1	5.13	NOT DETECTED
10.	04-05-2023	85.97	44.63	41.12	47.73	1.21	6.72	NOT DETECTED
11.	08-05-2023	74.38	41.29	36.83	42.19	1.1	4.78	NOT DETECTED
12.	11-05-2023	88.79	36.15	32.78	38.63	1.15	3.51	NOT DETECTED
13.	15-05-2023	71.26	31.84	29.58	32.14	0.92	2.98	NOT DETECTED
14.	18-05-2023	80.72	38.79	31.25	37.47	1.19	4.52	NOT DETECTED
15.	22-05-2023	84.99	33.63	26.49	32.16	0.9	3.14	NOT DETECTED

Continue...

Name of Location		West Port – Horti Culture						
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	75.68	39.03	33.19	37.41	1.2	4.58	NOT DETECTED
17.	29-05-2023	82.33	35.17	24.51	29.67	1	2.27	NOT DETECTED
18.	01-06-2023	81.73	42.75	37.29	41.35	1.24	6.26	NOT DETECTED
19.	05-06-2023	85.37	38.59	31.37	35.19	1.15	5.1	NOT DETECTED
20.	08-06-2023	88.52	44.27	34.68	39.74	1.17	6.38	NOT DETECTED
21.	12-06-2023	89.73	36.06	30.82	34.65	1.05	3.72	NOT DETECTED
22.	15-06-2023	86.23	30.24	21.25	27.56	1.00	4.72	NOT DETECTED
23.	19-06-2023	72.35	27.56	17.23	22.14	0.91	4.38	NOT DETECTED
24.	22-06-2023	62.14	25.23	15.2	20.35	0.86	3.62	NOT DETECTED
25.	26-06-2023	58.12	23.1	13.15	16.98	1.00	4.78	NOT DETECTED
26.	29-06-2023	55.23	21.4	11.78	16.56	0.94	3.51	NOT DETECTED
27.	03-07-2023	61.38	29.42	17.14	21.83	0.74	--	NOT DETECTED
28.	06-07-2023	57.34	25.76	14.15	17.42	0.50	1.82	NOT DETECTED
29.	10-07-2023	68.24	28.57	18.49	22.73	0.71	2.36	NOT DETECTED
30.	13-07-2023	72.14	30.47	19.83	23.41	0.43	2.74	NOT DETECTED
31.	17-07-2023	66.49	28.54	17.59	20.75	0.66	2.41	NOT DETECTED

Continue...

Name of Location		West Port – Horti Culture						
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	60.35	26.48	16.35	19.52	0.54	2.33	NOT DETECTED
33.	24-07-2023	71.25	31.31	19.53	24.41	0.70	3.15	NOT DETECTED
34.	27-07-2023	63.92	28.53	17.42	21.38	0.62	3.75	NOT DETECTED
35.	31-07-2023	68.64	29.01	19.52	23.54	0.68	3.53	NOT DETECTED
36.	03-08-2023	76.36	29.75	24.49	29.63	0.87	1.58	NOT DETECTED
37.	07-08-2023	83.27	33.54	26.49	31.58	0.93	1.94	NOT DETECTED
38.	10-08-2023	81.73	30.65	23.69	28.56	0.85	1.64	NOT DETECTED
39.	14-08-2023	88.61	34.87	28.5	33.62	0.95	2.13	NOT DETECTED
40.	17-08-2023	73.93	39.71	33.93	39.27	1.07	2.74	NOT DETECTED
41.	21-08-2023	86.45	42.53	35.23	41.83	1.1	2.95	NOT DETECTED
42.	24-08-2023	81.27	46.67	36.99	43.51	1.15	3.62	NOT DETECTED
43.	28-08-2023	72.46	38.53	32.15	38.76	1	3.15	NOT DETECTED
44.	31-08-2023	79.51	40.11	29.75	34.02	1.12	3.76	NOT DETECTED
45.	04-09-2023	80.31	34.63	27.48	30.32	0.92	2.73	NOT DETECTED
46.	07-09-2023	85.42	37.14	31.37	34.58	1	3.65	NOT DETECTED
47.	11-09-2023	83.59	35.91	30.53	33.96	0.95	3.37	NOT DETECTED

Continue...

Name of Location		West Port – Horti Culture						
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	86.35	40.11	32.49	36.67	1.03	3.92	NOT DETECTED
49.	18-09-2023	70.17	31.47	25.73	29.91	1.1	2.85	NOT DETECTED
50.	21-09-2023	73.28	33.65	27.84	32.47	1.14	3.18	NOT DETECTED
51.	25-09-2023	77.52	34.89	28.54	34.17	1.17	3.26	NOT DETECTED
52.	28-09-2023	80.69	36.75	30.51	35.83	1.21	3.51	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		WEST PORT - PMC OFFICE						
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	85.83	38.85	29.51	33.82	0.97	--	NOT DETECTED
2.	06-04-2023	82.59	45.83	35.66	39.35	1.38	3.52	NOT DETECTED
3.	10-04-2023	87.68	41.96	32.05	36.12	1.25	2.96	NOT DETECTED
4.	13-04-2023	81.26	43.75	33.14	40.53	1.21	3.75	NOT DETECTED
5.	17-04-2023	85.49	34.29	27.56	32.83	0.92	1.58	NOT DETECTED
6.	20-04-2023	84.38	39.74	30.18	36.51	1.13	4.13	NOT DETECTED
7.	24-04-2023	79.64	46.88	37.73	45.19	1.52	5.38	NOT DETECTED
8.	27-04-2023	81.29	35.16	29.15	33.27	1.12	3.48	NOT DETECTED
9.	01-05-2023	86.55	41.74	32.67	43.25	1.14	5.26	NOT DETECTED
10.	04-05-2023	89.64	39.65	31.89	38.63	1.18	3.87	NOT DETECTED
11.	08-05-2023	82.15	41.29	26.52	36.81	1.26	4.17	NOT DETECTED
12.	11-05-2023	74.84	47.88	36.73	45.78	1.18	6.27	NOT DETECTED
13.	15-05-2023	79.62	44.93	35.61	42.37	1.13	6.01	NOT DETECTED
14.	18-05-2023	83.76	39.16	29.77	36.98	1	5.48	NOT DETECTED
15.	22-05-2023	86.49	35.83	27.42	35.99	0.93	3.15	NOT DETECTED

Continue...

Name of Location		WEST PORT - PMC OFFICE						
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	81.09	43.29	36.53	43.56	1.14	4.27	NOT DETECTED
17.	29-05-2023	78.98	37.15	32.69	39.16	1.12	4.16	NOT DETECTED
18.	01-06-2023	86.29	43.28	35.71	41.38	1	6.48	NOT DETECTED
19.	05-06-2023	81.85	46.51	38.48	45.73	0.80	5.18	NOT DETECTED
20.	08-06-2023	89.53	39.32	33.73	39.26	0.75	3.96	NOT DETECTED
21.	12-06-2023	73.57	37.91	30.27	36.18	0.5	3.28	NOT DETECTED
22.	15-06-2023	84.13	31.25	24.5	30.23	0.1	5.12	NOT DETECTED
23.	19-06-2023	78.25	30.25	18.25	23.14	0.05	3.17	NOT DETECTED
24.	22-06-2023	65.14	27.58	17.55	22.18	0.08	2.53	NOT DETECTED
25.	26-06-2023	70.23	25.21	15.23	19.26	0.03	4.58	NOT DETECTED
26.	29-06-2023	61.21	22.15	14.25	18.35	0.04	3.66	NOT DETECTED
27.	03-07-2023	68.53	30.14	22.62	25.17	0.03	--	NOT DETECTED
28.	06-07-2023	62.69	28.53	19.86	23.49	0.02	2.53	NOT DETECTED
29.	10-07-2023	75.37	32.55	23.62	28.24	0.05	3.96	NOT DETECTED
30.	13-07-2023	79.51	33.73	25.1	30.61	0.06	4.13	NOT DETECTED
31.	17-07-2023	70.38	29.41	21.52	24.36	0.05	3.24	NOT DETECTED

Continue...

Name of Location		WEST PORT - PMC OFFICE						
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	64.76	28.64	18.24	22.13	0.02	2.41	NOT DETECTED
33.	24-07-2023	58.63	27.41	15.73	19.57	NOT DETECTED	2.1	NOT DETECTED
34.	27-07-2023	67.42	29.61	18.32	23.67	NOT DETECTED	3.52	NOT DETECTED
35.	31-07-2023	71.28	28.53	20.36	24.51	0.04	4.58	NOT DETECTED
36.	03-08-2023	82.57	32.19	28.42	35.65	0.94	2.97	NOT DETECTED
37.	07-08-2023	89.64	36.86	32.58	38.15	1	3.46	NOT DETECTED
38.	10-08-2023	78.24	38.27	34.66	40.73	1.1	3.58	NOT DETECTED
39.	14-08-2023	84.83	40.53	35.01	42.57	1.13	4.63	NOT DETECTED
40.	17-08-2023	72.95	42.57	37.65	45.32	1.15	4.27	NOT DETECTED
41.	21-08-2023	80.14	39.48	32.5	37.42	1	3.58	NOT DETECTED
42.	24-08-2023	89.25	41.94	36.61	44.76	1.21	4.38	NOT DETECTED
43.	28-08-2023	82.58	37.65	34.74	40.61	1.12	3.17	NOT DETECTED
44.	31-08-2023	87.51	42.28	40.51	46.32	1.25	5.13	NOT DETECTED
45.	04-09-2023	84.51	37.24	32.57	37.42	1	3.29	NOT DETECTED
46.	07-09-2023	87.53	40.51	34.13	40.62	1.05	3.93	NOT DETECTED
47.	11-09-2023	89.41	42.74	37.54	44.75	1.2	4.68	NOT DETECTED

Continue...

Name of Location		WEST PORT - PMC OFFICE						
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	85.39	39.61	35.18	41.48	1.15	4.25	NOT DETECTED
49.	18-09-2023	74.29	34.62	28.57	34.92	0.94	2.74	NOT DETECTED
50.	21-09-2023	77.53	37.15	31.37	37.83	1	3.48	NOT DETECTED
51.	25-09-2023	75.1	35.75	30.56	35.91	0.95	3.13	NOT DETECTED
52.	28-09-2023	78.25	36.91	33.28	39.79	0.98	3.76	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	Sep – 2023		GPCB LIMIT	Method of Test
			D.G.Set No. S-1 (1500 KVA)	D.G.Set No. S-2 (1500 KVA)		
			15-09-2023	15-09-2023		
1	Particulate Matter	mg/Nm ³	21.89	21.37	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	17.57	17.11	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	23.41	22.65	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Minimum Detection Limit

Ambient Air Quality Monitoring

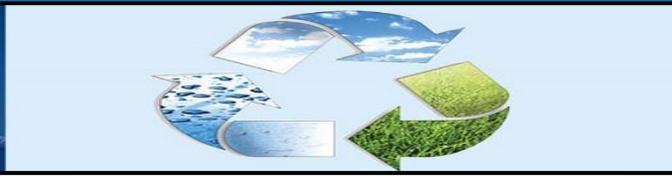
Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
2	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
3	Sulphur Dioxide (SO ₂)	µg/m ³	4 µg/m ³
4	Nitrogen Dioxide (NO ₂)	µg/m ³	5 µg/m ³
5	Carbon Monoxide (CO)	mg/m ³	0.01 mg/m ³
6	Ammonia (NH ₃)	µg/m ³	5 µg/m ³
7	Ozone (O ₃)	µg/m ³	5 µg/m ³
8	Lead (Pb)	µg/m ³	0.5 µg/m ³
9	Nickle (Ni)	ng/m ³	1 ng/m ³
10	Arsenic (As)	ng/m ³	1 ng/m ³
11	Benzene	µg/m ³	1µg/m ³
12	Benzo(o)Pyrene	ng/m ³	0.1 ng/m ³
14	Hydro Carbon	µg/m ³	1 µg/m ³

Stack Emission Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Suspended particulate matter	mg/Nm ³	2 mg/Nm ³
2	Sulphur Dioxide SO _X	mg/Nm ³	4 mg/Nm ³
3	Oxides of Nitrogen NO _X	mg/Nm ³	5 mg/Nm ³

STP Outlet

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



“Half Yearly Environmental Monitoring Reports “



M/S. ADANI PORTS & SPECIAL ECONOMIC ZONE LTD. (WFDP-West Port)

PLOT NO: - NAVINAL ISLAND, Village - MUNDRA, Tal. – Bhuj, DIST. - KUTCH - 370421.

Monitoring Period: October – 2024 to March - 2024

Submitted By



UniStar Environment & Research Labs Pvt. Ltd.

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

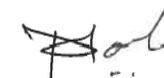


RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	WFDP WEST PORT STP OUTLET						GPCB Permissible Limit	TEST METHOD
			Oct-23		Nov-23		Dec-23			
			09-10-2023	23-10-2023	07-11-2023	22-11-2023	07-12-2023	26-12-2023		
1.	pH @ 25 ° C	--	7.42	7.46	7.35	7.33	7.18	7.22	6.5 to 9	APHA 23 rd Ed.,2017,4500-H*B
2.	Total Suspended Solids	mg/L	26	24	26	23	24	24	100	APHA 23 rd Ed.,2017,2540 - D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	17	16	15.8	16	15.9	16	30	APHA 23 rd Ed.,2017,5210-B 5-6
4.	Residual chlorine	mg/L	0.82	0.86	0.78	0.74	0.77	0.74	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B
5.	Fecal Coliform	MPN Index/100ml	80	80	70	80	80	80	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist

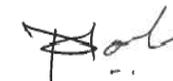
Mr. Nitin Tandel
Technical Manager

RESULTS OF STP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	WFDP WEST PORT STP OUTLET						GPCB Permissible Limit	TEST METHOD
			Jan-24		Feb-24		Mar-24			
			12-01-2024	27-01-2024	09-02-2024	26-02-2024	06-03-2024	18-03-2024		
1.	pH @ 25 ° C	--	7.32	7.31	7.36	7.38	7.45	7.39	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B
2.	Total Suspended Solids	mg/L	26	24	24	24	24	26	100	APHA 23 rd Ed.,2017,2540 -D
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	16	15.5	18	16.8	17.5	18	30	APHA 23 rd Ed,2017,5210-B 5-6
4.	Residual chlorine	mg/L	0.82	0.84	0.74	0.69	0.81	0.84	0.5 Min.	APHA 23 rd Ed.,2017,4500-CI-B
5.	Fecal Coliform	MPN Index/100ml	70	70	60	70	70	80	1000	IS 1622: 1981



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		West Port – West Basin Main Gate						
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	79.73	37.88	33.43	37.84	1.10	--	NOT DETECTED
2.	05-10-2023	83.35	35.85	31.52	36.14	1.05	4.59	NOT DETECTED
3.	09-10-2023	80.64	36.31	33.65	39.30	1.12	4.36	NOT DETECTED
4.	12-10-2023	76.31	39.75	37.54	42.61	1.24	4.57	NOT DETECTED
5.	16-10-2023	81.68	37.95	35.37	39.51	1.18	4.85	NOT DETECTED
6.	19-10-2023	79.27	38.27	34.76	39.42	1.17	4.82	NOT DETECTED
7.	23-10-2023	85.72	35.91	32.85	37.63	1.10	4.16	NOT DETECTED
8.	26-10-2023	79.24	40.69	36.35	40.16	1.19	4.37	NOT DETECTED
9.	30-10-2023	83.47	36.42	33.91	38.48	1.12	4.67	NOT DETECTED
10.	02-11-2023	81.26	37.85	34.52	38.33	1.10	4.74	NOT DETECTED
11.	06-11-2023	84.49	39.28	35.06	39.15	1.14	4.86	NOT DETECTED
12.	09-11-2023	83.62	38.96	34.21	38.52	1.18	4.91	NOT DETECTED
13.	13-11-2023	80.42	37.29	32.61	36.84	1.15	4.56	NOT DETECTED
14.	16-11-2023	78.36	35.19	31.57	36.26	1.14	4.42	NOT DETECTED
15.	20-11-2023	75.59	33.84	30.53	35.78	1.05	4.35	NOT DETECTED

Continue...

Name of Location		West Port – West Basin Main Gate						
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	79.40	35.63	32.26	36.92	1.10	4.46	NOT DETECTED
17.	27-11-2023	81.12	37.46	34.89	38.45	1.10	4.76	NOT DETECTED
18.	30-11-2023	76.52	34.91	31.23	36.76	1.06	4.46	NOT DETECTED
19.	04-12-2023	82.15	39.1	36.21	39.89	1.12	4.91	NOT DETECTED
20.	07-12-2023	80.72	38.59	33.96	37.42	1.10	4.75	NOT DETECTED
21.	11-12-2023	81.46	38.92	34.17	38.92	1.11	4.82	NOT DETECTED
22.	14-12-2023	77.69	36.17	32.59	36.76	1.08	4.63	NOT DETECTED
23.	18-12-2023	75.42	34.65	30.41	34.67	1.04	4.43	NOT DETECTED
24.	21-12-2023	78.36	36.85	30.72	35.3	1.09	4.58	NOT DETECTED
25.	25-12-2023	81.57	38.63	33.10	36.49	1.12	4.69	NOT DETECTED
26.	28-12-2023	77.91	35.17	32.85	35.12	1.10	4.5	NOT DETECTED
27.	01-01-2024	81.26	38.62	31.26	36.13	1.14	--	NOT DETECTED
28.	04-01-2024	84.52	40.21	35.78	38.56	1.19	5.12	NOT DETECTED
29.	08-01-2024	80.97	41.10	32.66	36.15	1.23	5.2	NOT DETECTED
30.	11-01-2024	83.74	39.53	34.56	38.67	1.20	4.79	NOT DETECTED
31.	15-01-2024	80.26	37.88	30.76	34.43	1.15	4.65	NOT DETECTED

Continue...

Name of Location		West Port – West Basin Main Gate						
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	78.47	35.81	29.89	33.65	1.12	4.51	NOT DETECTED
33.	22-01-2024	82.63	38.71	31.62	36.11	1.16	4.72	NOT DETECTED
34.	25-01-2024	84.55	40.16	34.12	38.24	1.19	4.88	NOT DETECTED
35.	29-01-2024	80.79	37.42	32.50	37.02	1.15	4.70	NOT DETECTED
36.	01-02-2024	84.29	39.97	35.15	39.86	1.20	5.06	NOT DETECTED
37.	05-02-2024	82.11	37.56	34.58	38.47	1.16	4.87	NOT DETECTED
38.	08-02-2024	79.64	34.97	32.61	36.35	1.13	4.43	NOT DETECTED
39.	12-02-2024	81.76	36.52	33.64	37.68	1.16	4.95	NOT DETECTED
40.	15-02-2024	75.82	33.86	30.94	34.69	1.12	4.62	NOT DETECTED
41.	19-02-2024	78.64	35.42	32.71	36.27	1.15	4.35	NOT DETECTED
42.	22-02-2024	82.51	38.03	34.59	38.62	1.21	4.76	NOT DETECTED
43.	26-02-2024	75.89	34.37	29.88	33.52	1.12	4.36	NOT DETECTED
44.	29-02-2024	79.48	36.91	31.64	35.36	1.15	4.82	NOT DETECTED
45.	04-03-2024	77.31	32.78	30.36	35.17	1.10	4.53	NOT DETECTED
46.	07-03-2024	80.57	36.91	33.52	38.64	1.16	4.87	NOT DETECTED
47.	11-03-2024	82.75	37.42	35.83	39.52	1.12	4.46	NOT DETECTED

Continue...

Name of Location		West Port – West Basin Main Gate						
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	76.49	31.97	32.16	37.91	1.15	4.25	NOT DETECTED
49.	18-03-2024	79.80	33.48	34.24	38.56	1.10	4.62	NOT DETECTED
50.	21-03-2024	75.48	32.85	31.93	35.27	1.16	4.50	NOT DETECTED
51.	25-03-2024	81.42	37.21	35.64	39.42	1.15	4.86	NOT DETECTED
52.	28-03-2024	78.64	33.58	33.85	36.17	1.13	4.59	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		West Port – Horti Culture						
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	81.42	37.31	32.53	35.86	0.95	--	NOT DETECTED
2.	05-10-2023	78.69	35.91	30.48	35.96	1.00	3.16	NOT DETECTED
3.	09-10-2023	85.49	38.74	33.56	39.28	1.04	3.68	NOT DETECTED
4.	12-10-2023	82.46	41.83	35.03	39.88	1.13	3.46	NOT DETECTED
5.	16-10-2023	78.52	37.54	31.20	37.89	1.14	3.23	NOT DETECTED
6.	19-10-2023	80.79	40.71	34.16	40.34	1.08	3.47	NOT DETECTED
7.	23-10-2023	84.42	39.49	32.95	37.28	1.05	3.25	NOT DETECTED
8.	26-10-2023	82.54	37.10	29.52	35.19	1.00	3.54	NOT DETECTED
9.	30-10-2023	84.47	35.62	33.79	36.85	0.97	3.77	NOT DETECTED
10.	02-11-2023	82.36	35.19	30.32	35.19	1.10	3.68	NOT DETECTED
11.	06-11-2023	84.50	38.62	31.20	37.71	1.10	3.81	NOT DETECTED
12.	09-11-2023	80.14	36.91	29.61	34.24	1.12	3.67	NOT DETECTED
13.	13-11-2023	82.56	38.1	31.28	37.85	1.14	3.79	NOT DETECTED
14.	16-11-2023	80.13	35.42	28.76	37.46	1.10	3.56	NOT DETECTED
15.	20-11-2023	78.42	33.91	27.86	32.59	1.04	3.38	NOT DETECTED

Continue...

Name of Location		West Port – Horti Culture						
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	74.85	32.59	26.86	31.58	1.00	3.25	NOT DETECTED
17.	27-11-2023	77.31	34.69	28.96	33.48	1.02	3.40	NOT DETECTED
18.	30-11-2023	79.53	36.22	30.84	35.62	1.00	3.52	NOT DETECTED
19.	04-12-2023	80.56	34.13	29.63	33.27	1.13	3.48	NOT DETECTED
20.	07-12-2023	83.47	36.89	32.43	36.86	1.15	3.65	NOT DETECTED
21.	11-12-2023	84.52	37.89	34.15	38.74	1.17	3.78	NOT DETECTED
22.	14-12-2023	82.42	35.57	32.16	36.82	1.14	3.60	NOT DETECTED
23.	18-12-2023	79.61	34.21	30.75	34.43	1.10	3.41	NOT DETECTED
24.	21-12-2023	75.26	31.84	29.65	32.99	1.05	3.25	NOT DETECTED
25.	25-12-2023	78.40	33.49	31.56	35.44	1.09	3.43	NOT DETECTED
26.	28-12-2023	80.72	36.54	32.70	36.12	1.11	3.62	NOT DETECTED
27.	01-01-2024	83.52	38.43	34.11	38.25	1.14	--	NOT DETECTED
28.	04-01-2024	80.16	36.27	31.73	35.46	1.11	3.46	NOT DETECTED
29.	08-01-2024	77.64	35.48	29.71	33.45	1.08	3.26	NOT DETECTED
30.	11-01-2024	79.49	34.87	31.64	36.27	1.10	3.35	NOT DETECTED
31.	15-01-2024	75.97	33.64	28.89	33.54	1.05	3.17	NOT DETECTED

Continue...

Name of Location		West Port – Horti Culture						
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	78.53	34.12	30.73	35.61	1.08	3.29	NOT DETECTED
33.	22-01-2024	82.69	37.38	32.72	37.81	1.11	3.51	NOT DETECTED
34.	25-01-2024	77.13	38.88	33.52	38.31	1.13	3.62	NOT DETECTED
35.	29-01-2024	84.75	40.03	35.10	39.65	1.16	3.76	NOT DETECTED
36.	01-02-2024	81.48	40.32	35.67	38.96	1.15	3.68	NOT DETECTED
37.	05-02-2024	84.63	43.22	37.10	40.00	1.18	3.95	NOT DETECTED
38.	08-02-2024	82.46	40.83	35.75	39.42	1.16	3.72	NOT DETECTED
39.	12-02-2024	77.62	37.41	32.57	36.86	1.12	3.39	NOT DETECTED
40.	15-02-2024	80.19	39.52	33.38	37.29	1.15	3.60	NOT DETECTED
41.	19-02-2024	82.69	40.11	34.16	38.35	1.17	3.76	NOT DETECTED
42.	22-02-2024	78.35	37.74	32.2	36.91	1.12	3.45	NOT DETECTED
43.	26-02-2024	84.24	39.43	35.18	39.42	1.15	3.98	NOT DETECTED
44.	29-02-2024	80.73	41.29	33.76	36.55	1.11	3.71	NOT DETECTED
45.	04-03-2024	87.32	43.16	36.72	41.19	1.21	3.71	NOT DETECTED
46.	07-03-2024	84.61	40.63	34.86	39.54	1.17	3.53	NOT DETECTED
47.	11-03-2024	81.49	38.65	31.62	36.56	1.13	3.35	NOT DETECTED

Continue...

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

Name of Location		West Port – Horti Culture						
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	86.74	41.22	36.71	40.94	1.11	3.48	NOT DETECTED
49.	18-03-2024	84.27	40.64	34.55	38.26	1.16	3.62	NOT DETECTED
50.	21-03-2024	80.71	37.59	31.39	36.57	1.15	3.44	NOT DETECTED
51.	25-03-2024	78.54	36.91	33.28	38.64	1.18	3.27	NOT DETECTED
52.	28-03-2024	82.38	38.83	31.76	36.28	1.14	3.58	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		WEST PORT - PMC OFFICE						
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	79.24	38.10	33.79	39.62	1.05	--	NOT DETECTED
2.	05-10-2023	82.56	40.81	36.42	42.64	1.19	4.12	NOT DETECTED
3.	09-10-2023	78.96	38.65	34.28	39.12	1.13	3.98	NOT DETECTED
4.	12-10-2023	81.75	36.82	38.11	42.52	1.22	4.10	NOT DETECTED
5.	16-10-2023	84.18	41.59	35.97	41.78	1.15	4.35	NOT DETECTED
6.	19-10-2023	80.61	35.64	37.18	44.25	1.19	4.21	NOT DETECTED
7.	23-10-2023	83.64	40.52	34.19	40.46	1.10	3.78	NOT DETECTED
8.	26-10-2023	85.42	38.61	32.55	38.11	1.03	4.49	NOT DETECTED
9.	30-10-2023	80.64	36.28	38.91	36.85	1.04	4.22	NOT DETECTED
10.	02-11-2023	81.26	37.5	35.81	38.64	1.10	4.23	NOT DETECTED
11.	06-11-2023	83.68	40.35	36.14	39.63	1.13	4.36	NOT DETECTED
12.	09-11-2023	80.42	37.55	33.69	37.92	1.10	4.28	NOT DETECTED
13.	13-11-2023	82.87	39.17	36.49	39.64	1.16	4.42	NOT DETECTED
14.	16-11-2023	79.09	36.86	32.10	36.34	1.12	4.15	NOT DETECTED
15.	20-11-2023	76.33	35.99	31.67	35.88	1.10	3.87	NOT DETECTED

Continue...

Name of Location		WEST PORT - PMC OFFICE						
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	78.41	36.30	33.53	37.62	1.15	3.91	NOT DETECTED
17.	27-11-2023	80.13	39.62	36.74	39.36	1.18	4.14	NOT DETECTED
18.	30-11-2023	77.54	36.12	34.63	38.29	1.11	3.79	NOT DETECTED
19.	04-12-2023	83.15	38.52	36.26	39.10	1.16	4.59	NOT DETECTED
20.	07-12-2023	84.97	40.11	37.58	39.97	1.18	4.75	NOT DETECTED
21.	11-12-2023	82.54	37.43	35.21	38.47	1.14	4.52	NOT DETECTED
22.	14-12-2023	84.42	39.85	37.14	40.00	1.16	4.69	NOT DETECTED
23.	18-12-2023	80.14	37.53	35.46	37.81	1.12	4.24	NOT DETECTED
24.	21-12-2023	77.51	36.19	33.74	36.49	1.10	4.12	NOT DETECTED
25.	25-12-2023	75.35	35.79	32.18	35.51	1.10	4.05	NOT DETECTED
26.	28-12-2023	78.54	36.43	33.68	36.42	1.12	4.29	NOT DETECTED
27.	01-01-2024	81.62	37.16	35.32	38.48	1.11	--	NOT DETECTED
28.	04-01-2024	77.85	35.62	33.84	36.83	1.05	3.95	NOT DETECTED
29.	08-01-2024	80.49	37.74	34.89	38.12	1.10	4.21	NOT DETECTED
30.	11-01-2024	84.63	39.27	36.21	39.43	1.14	4.49	NOT DETECTED
31.	15-01-2024	81.92	41.46	34.98	37.59	1.19	4.60	NOT DETECTED

Continue...

Name of Location		WEST PORT - PMC OFFICE						
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	78.79	40.87	36.91	39.33	1.15	4.51	NOT DETECTED
33.	22-01-2024	82.53	38.24	34.2	38.76	1.12	4.25	NOT DETECTED
34.	25-01-2024	84.42	40.11	36.31	39.88	1.16	4.42	NOT DETECTED
35.	29-01-2024	81.97	37.64	32.92	36.49	1.12	4.20	NOT DETECTED
36.	01-02-2024	84.36	39.14	37.86	39.91	1.15	4.49	NOT DETECTED
37.	05-02-2024	81.57	35.89	34.76	37.8	1.12	4.29	NOT DETECTED
38.	08-02-2024	83.16	36.48	36.53	38.16	1.15	4.56	NOT DETECTED
39.	12-02-2024	78.72	35.10	34.74	36.98	1.10	4.13	NOT DETECTED
40.	15-02-2024	75.29	34.73	31.85	35.61	1.10	3.95	NOT DETECTED
41.	19-02-2024	77.17	35.51	33.49	36.72	1.11	4.25	NOT DETECTED
42.	22-02-2024	81.56	38.33	36.80	39.11	1.15	4.46	NOT DETECTED
43.	26-02-2024	75.84	35.16	32.42	36.28	1.12	3.86	NOT DETECTED
44.	29-02-2024	79.63	37.81	34.73	38.24	1.11	4.32	NOT DETECTED
45.	04-03-2024	80.42	36.37	34.71	37.54	1.13	3.97	NOT DETECTED
46.	07-03-2024	84.12	39.51	36.91	41.73	1.17	4.15	NOT DETECTED
47.	11-03-2024	78.89	35.48	33.54	37.47	1.14	4.04	NOT DETECTED

Continue...

Name of Location		WEST PORT - PMC OFFICE						
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	81.37	36.40	34.48	39.03	1.15	4.65	NOT DETECTED
49.	18-03-2024	85.63	40.87	38.66	42.52	1.19	4.71	NOT DETECTED
50.	21-03-2024	80.74	38.68	36.52	40.75	1.13	4.49	NOT DETECTED
51.	25-03-2024	77.39	35.32	32.86	36.48	1.10	4.22	NOT DETECTED
52.	28-03-2024	82.36	37.54	35.16	39.63	1.15	4.41	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	Mar – 2024		GPCB LIMIT	Method of Test
			D.G.Set No. S-1 (1500 KVA)	D.G.Set No. S-2 (1500 KVA)		
			15-03-2024	15-03-2024		
1	Particulate Matter	mg/Nm ³	18.42	18.31	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	15.28	14.93	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.76	19.58	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Minimum Detection Limit

Ambient Air Quality Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
2	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
3	Sulphur Dioxide (SO ₂)	µg/m ³	4 µg/m ³
4	Nitrogen Dioxide (NO ₂)	µg/m ³	5 µg/m ³
5	Carbon Monoxide (CO)	mg/m ³	0.01 mg/m ³
6	Ammonia (NH ₃)	µg/m ³	5 µg/m ³
7	Ozone (O ₃)	µg/m ³	5 µg/m ³
8	Lead (Pb)	µg/m ³	0.5 µg/m ³
9	Nickle (Ni)	ng/m ³	1 ng/m ³
10	Arsenic (As)	ng/m ³	1 ng/m ³
11	Benzene	µg/m ³	1µg/m ³
12	Benzo(o)Pyrene	ng/m ³	0.1 ng/m ³
14	Hydro Carbon	µg/m ³	1 µg/m ³

Stack Emission Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Suspended particulate matter	mg/Nm ³	2 mg/Nm ³
2	Sulphur Dioxide SO _X	mg/Nm ³	4 mg/Nm ³
3	Oxides of Nitrogen NO _X	mg/Nm ³	5 mg/Nm ³

STP Outlet

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

ETP Outlet

Sr. No.	Test Parameter	Unit	MDL
1	Colour	Pt. Co. Scale	5
2	pH @ 27 ° C	--	2
3	Temperature	0c	5
4	Total Suspended Solids	mg/L	4
5	Total Dissolved Solids	mg/L	4
6	COD	mg/L	2
7	BOD (3 days at 27 °C)	mg/L	1
8	Chloride (as Cl) -	mg/L	1
9	Oil & Grease	mg/L	2
10	Sulphate (as SO ₄)	mg/L	1
11	Ammonical Nitrogen	mg/L	2

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

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	--	--