

Ref No. APSEZL/EnvCell/2023-24/051

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 **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 2023.

Thank you,

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

Authorized Signatory

By
14/10/2023
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

Adani Ports and Special Economic Zone Ltd Tel +91 2838 25 5000
Adani House, Fax +91 2838 25 51110
PO Box No. 1 info@adani.com
Mundra, Kutch 370 421 www.adani.com
Gujarat, India
CIN: L63090GJ1998PLC034182

Registered Office: Adani Corporate House, Shantigram, Nr. Vaishno Devi Circle, S.G. Highway, Khodiyar, Ahmedabad – 382421, Gujarat, India

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 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	:	31/08/2022

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	Average
Process	Nil
Gardening / Horticulture / Sprinkling	2649.0863 m ³ /day
Domestic	17.26 m ³ /day

Details of Water Consumption for the year 2022-23 are enclosed as **Annexure – 1**.

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)
Handling, Storage and Distribution of Dry Cargo*	0.049 KL/MT of Cargo Handled	0.049 KL/MT of Cargo Handled

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* 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

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)
The West Basin is a part of Waterfront Development Project of APSEZL. The West Basin is handling Coal	Dry Cargo Handling	17.79 MMT	19.69 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
(a) Waste Water (Domestic sewage)	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. From STP, 5040 KL treated water discharged during April 2022 – March 2023. Which is being used for the horticulture/plantation. 2. Analysis reports of treated water are enclosed as Annexure – 2.
	pH	--	pH	7.34	
	Total Suspended Solids	0.33	Total Suspended Solids (mg/l)	24.17	
	BOD (5 Days @ 20 oC)	0.24	BOD (5 Days @ 20 oC) (mg/l)	17.08	
	Residual Chlorine	0.01	Residual Chlorine (mg/l)	0.75	
	Fecal Coliform	0.69	Fecal Coliform (MPN/100ml)	50	
(b) Air (DG Stack 1500 + 1500 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 1500 KVA + 1500 KVA are provided as a standby power source and used
	Particulate Matter (PM)	0.0070	Particulate Matter (PM) (mg/Nm ³)	21.08	

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	Sulphur Dioxide (SO ₂)	0.0126	Sulphur Dioxide (SO ₂) (ppm)	14.54	during power failure. Analysis reports of stack monitoring are enclosed as Annexure – 2 . 2. The ambient air quality monitoring is being done regularly (twice a week) through NABL and MoEF&CC recognized laboratory namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi. 3. Analysis reports of ambient air quality monitoring are enclosed as Annexure – 2 .
	Nitrogen Oxide (NO _x)	0.0149	Nitrogen Oxide (NO _x) (ppm)	25.27	

* 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.

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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 (2021-22)	During the current financial year (2022-23)
(a) From Process	a) Oily Cotton Waste (cat.33.2): 22.69 MT b) Used oil(cat.5.1)- 105.407 MT c) Discarded Containers (33.1) –5.88 MT	a) Oily Cotton Waste (cat.33.2): 19.070 MT b) Used oil (cat.5.1)- 30.603 MT c) 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 (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		
(C-2) Sold	Details is Attached as Annexure-3	
(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:
 - APSEZ pasted stickers spreading awareness among their zone as plastic are prohibited now.
 - Awareness sessions organized among department and contract workers.
 - 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 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.

PART – G

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

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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.
- Water less 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

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
- ✓ 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

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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 conveyorization 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.
- 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:

- 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).

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- 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 2022-23 was to the tune of INR **1448.06** lakh out of which INR **1366.281** lakh was spent. Environment protection expenditure spent during the year 2022-23 is enclosed as **Annexure – 5**.

Date: 11-09-2023

(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-22 to Mar-23)

Month	Water Consumption			Treated Water Discharge, KL
	Industrial, KL (Category-1)	Domestic, KL (Category-2)	Total, KL	
Apr-22	72194	570	72764	456
May-22	79975	471	80446	377
Jun-22	101193	590	101783	472
Jul-22	60074	640	60714	512
Aug-22	70432	515	70947	412
Sep-22	71219	589	71808	471
Oct-22	59060	555	59615	444
Nov-22	106609	571	107180	457
Dec-22	105070	426	105496	341
Jan-23	96969	485	97454	388
Feb-23	77791	451	78242	360.8
Mar-23	66331	437	66768	349.6
Total	966917	6301	973217	5040
Per Month	80576.38	525.04	81101.42	420.03
Per Day	2649.086	17.26	2666.35	13.81

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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:					
6.	Used spent oil:	Recycle (send to recycler)	MT	105.407	30.603
7.	Oily Cotton Waste:	Co-processing/Incineration	MT	22.69	19.070
8.	Discarded Containers:	Recycle (send to recycler)	MT	5.88	NIL

Environment Statement for 2022-23 for M/s Adani Ports & SEZ Limited (WFDP-West Port)

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

A handwritten signature in black ink.

New Delhi, 01-06-2021

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

Environment Statement for 2022-23 for M/s Adani Ports & SEZ Limited (WFDP-West Port)

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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 "



ANNEXURE - 2

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

PLOT NO: - NAVINAL ISLAND, Village - MUNDRA, Tal. – Bhuj, 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	WFDP WEST PORT 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	16-06-2022	28-06-2022				
1.	pH @ 25 °C	--	7.28	7.56	7.33	7.29	7.14	7.28	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	26	24	22	24	22	28	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	17	14	18	20	16	19	30	APHA 23 rd Ed.,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.7	0.7	0.77	0.57	0.87	0.69	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	33	50	40	34	50	70	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-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	--	7.56	7.25	7.12	7.48	7.49	7.42	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	18	20	22	24	28	30	100	APHA 23 rd Ed.,2017,2540 -D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 °C)	mg/L	14	18	16	19	17	20	30	APHA 23 rd Ed,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.62	0.52	0.62	0.68	0.74	0.78	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	90	60	70	60	33	40	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.	07-04-2022	89.56	51.23	38.24	44.56	1.34	5.13	NOT DETECTED
2.	08-04-2022	84.57	47.86	40.25	38.97	1	4.12	NOT DETECTED
3.	11-04-2022	88.5	45.21	34.56	40.21	0.6	6.24	NOT DETECTED
4.	12-04-2022	83.41	36.85	37.85	44.56	1.2	4.63	NOT DETECTED
5.	18-04-2022	78.15	40.45	41.45	38.25	0.54	5.12	NOT DETECTED
6.	21-04-2022	89.25	42.34	39.25	37.65	0.94	7.25	NOT DETECTED
7.	25-04-2022	80.45	47.85	34.56	43.23	1.05	6.13	NOT DETECTED
8.	28-04-2022	86.14	40.23	37.23	45.67	0.7	4.44	NOT DETECTED
9.	02-05-2022	89.45	49.25	35.67	42.67	1.15	7.13	NOT DETECTED
10.	05-05-2022	86.78	44.56	32.45	40.15	1.6	5.15	NOT DETECTED
11.	09-05-2022	81.23	42.35	36.75	43.53	1.25	1.87	NOT DETECTED
12.	12-05-2022	79.85	37.85	34.52	41.25	1.0	2.64	NOT DETECTED
13.	16-05-2022	88.18	44.56	36.15	40.18	1.25	3.85	NOT DETECTED
14.	18-05-2022	84.56	47.5	32.45	37.92	1.0	2.98	NOT DETECTED
15.	23-05-2022	89.52	43.51	39.35	45.35	1.25	4.15	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.	26-05-2022	86.63	52.34	37.23	42.85	1.1	2.54	NOT DETECTED
17.	30-05-2022	88.92	47.43	38.15	43.23	1.0	4.85	NOT DETECTED
18.	02-06-2022	88.95	47.89	36.78	41.27	1.2	5.67	NOT DETECTED
19.	06-06-2022	84.23	50.23	34.57	40.18	1.45	6.2	NOT DETECTED
20.	09-06-2022	83.2	38.14	39.12	44.25	1.3	7.15	NOT DETECTED
21.	13-06-2022	80.16	45.67	38.76	44.18	1.21	5.67	NOT DETECTED
22.	15-06-2022	89.25	38.92	34.51	40.15	1.00	4.52	NOT DETECTED
23.	20-06-2022	79.34	35.69	38.92	43.25	1.4	6.78	NOT DETECTED
24.	23-06-2022	87.25	46.71	37.15	44.19	1.15	4.23	NOT DETECTED
25.	27-06-2022	82.56	49.18	34.51	40.15	1.25	6.12	NOT DETECTED
26.	29-06-2022	85.55	42.56	37.25	42.85	1.13	5.25	NOT DETECTED
27.	04-07-2022	81.23	27.45	21.34	23.45	0.04	3.15	NOT DETECTED
28.	07-07-2022	47.45	14.32	10.35	10.21	NOT DETECTED	NOT DETECTED	NOT DETECTED
29.	11-07-2022	43.45	15.34	9.24	11.11	NOT DETECTED	NOT DETECTED	NOT DETECTED
30.	14-07-2022	40.45	13.27	10.45	12.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
31.	18-07-2022	47.67	15.19	9.23	12.1	NOT DETECTED	NOT DETECTED	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.	21-07-2022	46.89	13.28	10.24	13.23	NOT DETECTED	NOT DETECTED	NOT DETECTED
33.	25-07-2022	53.45	17.35	9.87	11.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
34.	28-07-2022	42.36	13.22	10.67	12.89	NOT DETECTED	NOT DETECTED	NOT DETECTED
35.	01-08-2022	79.72	52.38	34.79	46.38	1.09	5.68	NOT DETECTED
36.	04-08-2022	83.37	48.57	36.48	39.64	1.38	7.38	NOT DETECTED
37.	08-08-2022	88.46	39.18	38.29	47.49	1.28	4.92	NOT DETECTED
38.	11-08-2022	73.93	42.95	31.84	38.3	1.16	4.18	NOT DETECTED
39.	15-08-2022	81.38	43.27	35.49	43.84	1.15	7.32	NOT DETECTED
40.	18-08-2022	87.29	53.62	29.47	37.38	1.24	6.21	NOT DETECTED
41.	22-08-2022	68.84	47.88	36.89	41.53	1.15	2.49	NOT DETECTED
42.	25-08-2022	76.53	46.38	34.57	47.26	1	6.27	NOT DETECTED
43.	29-08-2022	89.14	41.63	34.59	41.89	0.92	3.84	NOT DETECTED
44.	01-09-2022	83.48	38.58	23.4	29.36	1	4.69	NOT DETECTED
45.	05-09-2022	72.14	34.38	28.37	36.69	0.92	5.94	NOT DETECTED
46.	08-09-2022	69.63	28.94	26.88	33.57	1.1	3.14	NOT DETECTED
47.	12-09-2022	78.37	37.68	19.36	24.83	1	3.84	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.	15-09-2022	86.38	32.31	27.64	34.27	0.95	6.48	NOT DETECTED
49.	19-09-2022	74.43	42.97	31.38	39.85	1	6.83	NOT DETECTED
50.	22-09-2022	83.94	36.84	30.05	36.49	1.13	4.27	NOT DETECTED
51.	26-09-2022	81.69	29.72	22.61	31.28	0.09	5.83	NOT DETECTED
52.	29-09-2022	87.29	31.72	32.46	38.04	1.15	4.28	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.	07-04-2022	84.57	35.23	31.23	39.23	0.67	1.76	NOT DETECTED
2.	08-04-2022	88.34	30.15	32.45	41.45	0.4	2.34	NOT DETECTED
3.	11-04-2022	82.56	45.67	25.44	34.56	0.75	3.1	NOT DETECTED
4.	12-04-2022	88.14	47.85	28.76	34.57	1.05	5.34	NOT DETECTED
5.	18-04-2022	79.54	38.95	30.12	36.35	1.14	3.65	NOT DETECTED
6.	21-04-2022	85.67	32.45	35.67	42.56	0.9	4.12	NOT DETECTED
7.	25-04-2022	88.12	42.34	33.15	40.25	0.54	2.75	NOT DETECTED
8.	28-04-2022	82.25	41.54	32.17	42.55	0.34	1.97	NOT DETECTED
9.	02-05-2022	86.56	39.15	35.12	41.76	0.85	3.12	NOT DETECTED
10.	05-05-2022	79.45	36.32	34.17	39.23	1.12	4.55	NOT DETECTED
11.	09-05-2022	86.23	33.25	30.16	25.76	1.0	1.78	NOT DETECTED
12.	12-05-2022	81.15	42.56	29.31	34.57	1.05	2.35	NOT DETECTED
13.	16-05-2022	89.43	47.15	34.21	40.24	0.07	4.15	NOT DETECTED
14.	18-05-2022	77.23	35.12	37.24	42.56	1.15	3.15	NOT DETECTED
15.	23-05-2022	86.14	45.24	33.84	39.21	1.0	1.78	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.	26-05-2022	80.24	40.18	35.15	40.25	1.0	2.45	NOT DETECTED
17.	30-05-2022	87.73	37.35	31.29	37.35	1.15	3.12	NOT DETECTED
18.	02-06-2022	85.46	45.67	34.56	40.17	1.25	5.12	NOT DETECTED
19.	06-06-2022	75.34	39.23	31.66	35.69	1.00	4.16	NOT DETECTED
20.	09-06-2022	88.21	45.67	36.15	42.38	1.5	5.00	NOT DETECTED
21.	13-06-2022	79.26	41.23	37.13	42.15	0.5	4.89	NOT DETECTED
22.	15-06-2022	85.15	42.68	35.89	40.19	1.00	5.16	NOT DETECTED
23.	20-06-2022	83.26	39.45	32.45	37.85	1.25	4.94	NOT DETECTED
24.	23-06-2022	85.19	35.18	36.18	41.25	1.14	3.15	NOT DETECTED
25.	27-06-2022	89.34	44.75	35.92	40.18	1.00	5.00	NOT DETECTED
26.	29-06-2022	77.15	36.28	35.17	41.26	1.2	4.85	NOT DETECTED
27.	04-07-2022	71.45	22.34	18.34	21.34	0.05	2.45	NOT DETECTED
28.	07-07-2022	40.23	13.21	9.13	12.34	NOT DETECTED	NOT DETECTED	NOT DETECTED
29.	11-07-2022	36.78	11.25	8.56	10.24	NOT DETECTED	NOT DETECTED	NOT DETECTED
30.	14-07-2022	35.12	10.23	7.56	10.34	NOT DETECTED	NOT DETECTED	NOT DETECTED
31.	18-07-2022	43.25	13.45	7.25	9.23	NOT DETECTED	NOT DETECTED	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.	21-07-2022	37.16	12.34	9.21	8.34	NOT DETECTED	NOT DETECTED	NOT DETECTED
33.	25-07-2022	44.56	13.25	8.34	10.35	NOT DETECTED	NOT DETECTED	NOT DETECTED
34.	28-07-2022	35.64	11.47	7.45	8.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
35.	01-08-2022	88.63	46.64	34.1	46.16	0.91	2.57	NOT DETECTED
36.	04-08-2022	82.39	36.69	36.34	42.32	1	5.83	NOT DETECTED
37.	08-08-2022	73.89	31.36	28.53	34.64	0.89	3.2	NOT DETECTED
38.	11-08-2022	76.15	39.63	29.31	38.63	1.15	4.72	NOT DETECTED
39.	15-08-2022	84.75	43.9	37.69	47.38	0.07	2.14	NOT DETECTED
40.	18-08-2022	83.73	41.31	34.24	44.48	1.12	3.98	NOT DETECTED
41.	22-08-2022	74.96	49.77	29.78	37.57	0.95	2.79	NOT DETECTED
42.	25-08-2022	76.64	37.19	31.97	46.41	1.11	2.38	NOT DETECTED
43.	29-08-2022	84.42	43.82	28.47	34.43	1	5.71	NOT DETECTED
44.	01-09-2022	73.27	39.28	23.47	29.63	0.95	2.83	NOT DETECTED
45.	05-09-2022	68.53	32.79	31.35	36.46	1.12	4.76	NOT DETECTED
46.	08-09-2022	82.68	27.16	22.69	27.98	1.1	3.92	NOT DETECTED
47.	12-09-2022	79.16	31.38	24.28	31.27	0.95	5.39	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.	15-09-2022	87.74	36.7	29.67	35.72	0.09	2.48	NOT DETECTED
49.	19-09-2022	71.58	33.32	32.61	38.74	0.92	3.26	NOT DETECTED
50.	22-09-2022	89.73	37.82	26.79	32.31	1.06	3.47	NOT DETECTED
51.	26-09-2022	83.72	29.64	27.26	34.48	1	3.84	NOT DETECTED
52.	29-09-2022	76.29	38.17	33.58	39.62	1.15	4.86	NOT DETECTED
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0	---	5.0
Test Method		IS - 5182, Part-23	UERL/AIR/SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS - 5182, Part - 11



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(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.	07-04-2022	89.45	47.23	34.56	38.76	1.20	2.45	NOT DETECTED
2.	08-04-2022	84.56	35.21	28.91	34.51	0.67	5.43	NOT DETECTED
3.	11-04-2022	88.23	30.15	26.54	33.45	0.45	4.1	NOT DETECTED
4.	12-04-2022	79.85	42.15	31.45	38.97	0.98	6.7	NOT DETECTED
5.	18-04-2022	87.75	38.76	34.23	41.34	1.2	4.56	NOT DETECTED
6.	21-04-2022	82.42	44.75	38.93	43.25	0.65	2.34	NOT DETECTED
7.	25-04-2022	82.35	31.23	35.45	40.34	0.78	3.65	NOT DETECTED
8.	28-04-2022	89.15	37.8	36.12	42.56	0.45	2.75	NOT DETECTED
9.	02-05-2022	89.23	45.62	27.86	35.68	1.00	4.56	NOT DETECTED
10.	05-05-2022	85.45	41.45	33.45	37.12	1.15	2.89	NOT DETECTED
11.	09-05-2022	76.45	37.65	31.28	35.29	0.95	3.45	NOT DETECTED
12.	12-05-2022	83.89	45.21	27.57	34.58	1.15	5.12	NOT DETECTED
13.	16-05-2022	79.18	35.67	35.24	41.25	1.00	7.1	NOT DETECTED
14.	18-05-2022	81.56	38.21	36.21	40.82	1.25	4.53	NOT DETECTED
15.	23-05-2022	87.46	35.24	30.45	36.27	1.12	6.94	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.	26-05-2022	81.46	43.45	34.11	40.15	1.00	4.52	NOT DETECTED
17.	30-05-2022	77.65	41.21	37.12	41.28	1.35	6.15	NOT DETECTED
18.	02-06-2022	88.95	42.35	31.45	38.15	1.14	5.23	NOT DETECTED
19.	06-06-2022	84.56	37.19	36.25	40.27	1.00	3.48	NOT DETECTED
20.	09-06-2022	87.34	34.59	29.15	34.57	1.15	7.12	NOT DETECTED
21.	13-06-2022	86.57	36.12	30.15	35.25	1.14	6.28	NOT DETECTED
22.	15-06-2022	82.45	40.25	28.19	34.19	0.5	5.11	NOT DETECTED
23.	20-06-2022	78.54	31.78	34.21	39.12	1.00	7.45	NOT DETECTED
24.	23-06-2022	89.23	42.17	30.15	36.89	0.8	6.35	NOT DETECTED
25.	27-06-2022	75.35	39.45	32.19	37.15	1.11	3.59	NOT DETECTED
26.	29-06-2022	86.23	34.52	32.69	38.82	1.00	4.55	NOT DETECTED
27.	04-07-2022	76.23	25.78	22.14	24.56	0.08	4.12	NOT DETECTED
28.	07-07-2022	45.23	15.12	13.21	15.75	ND	ND	NOT DETECTED
29.	11-07-2022	45.67	13.67	11.45	13.23	ND	ND	NOT DETECTED
30.	14-07-2022	44.34	15.89	12.34	16.78	ND	ND	NOT DETECTED
31.	18-07-2022	51.23	18.25	11.26	13.45	ND	ND	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.	21-07-2022	44.23	16.75	12.67	15.42	NOT DETECTED	NOT DETECTED	NOT DETECTED
33.	25-07-2022	60.12	18.76	12.35	14.23	NOT DETECTED	NOT DETECTED	NOT DETECTED
34.	28-07-2022	44.56	15.23	11.34	15.27	NOT DETECTED	NOT DETECTED	NOT DETECTED
35.	01-08-2022	87.48	49.58	32.28	41.26	1.21	3.74	NOT DETECTED
36.	04-08-2022	86.97	38.2	29.65	38.47	1	3.05	NOT DETECTED
37.	08-08-2022	89.6	39.72	34.75	39.14	1.12	2.84	NOT DETECTED
38.	11-08-2022	85.83	42.67	31.58	43.68	0.97	4.39	NOT DETECTED
39.	15-08-2022	76.42	32.49	39.63	48.52	1.15	5.27	NOT DETECTED
40.	18-08-2022	80.76	41.85	37.48	42.74	1.23	5.94	NOT DETECTED
41.	22-08-2022	84.83	37.48	26.82	34.26	0.99	7.14	NOT DETECTED
42.	25-08-2022	74.67	46.28	33.69	43.39	1.29	5.73	NOT DETECTED
43.	29-08-2022	82.7	38.8	36.09	46.94	1	4.74	NOT DETECTED
44.	01-09-2022	78.16	36.38	27.16	32.61	0.95	2.68	NOT DETECTED
45.	05-09-2022	76.92	41.12	19.94	24.37	1.15	3.84	NOT DETECTED
46.	08-09-2022	86.36	32.73	27.82	35.53	1	3.57	NOT DETECTED
47.	12-09-2022	78.48	38.39	18.34	29.91	1	2.98	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.	15-09-2022	84.62	21.68	27.54	36.28	1.1	4.96	NOT DETECTED
49.	19-09-2022	72.35	33.28	33.75	39.78	1.15	3.46	NOT DETECTED
50.	22-09-2022	84.83	28.74	21.68	32.35	1.18	6.12	NOT DETECTED
51.	26-09-2022	78.92	34.53	28.24	37.25	1	4.64	NOT DETECTED
52.	29-09-2022	87.37	29.39	26.36	30.13	1.1	5.82	NOT DETECTED
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0	---	5.0
Test Method		IS - 5182, Part-23	UERL/AIR/SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS - 5182, Part - 11



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GPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2015 Certified Company

ISO 45001:2018 Certified Company

Results of Noise Level Monitoring

Location Name		West Port – West Basin Main Gate					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		27-04-2022	10-05-2022	15-06-2022	02-07-2022	17-08-2022	19-09-2022
1	06:00 to 07:00	65.5	63.5	66.7	66.2	62.8	65.7
2	07:00 to 08:00	63.5	64.2	68.8	63.9	64.2	67.3
3	08:00 to 09:00	66.9	62.5	67.3	66.1	63.9	67.3
4	09:00 to 10:00	67.5	64.5	65.7	61.2	64.5	65.3
5	10:00 to 11:00	68.6	62.9	66.2	62.8	62.9	66.2
6	11:00 to 12:00	61.5	67.5	66.2	68.9	63	66.7
7	12:00 to 13:00	66.4	60.4	65.4	65.4	60.4	65.4
8	13:00 to 14:00	68.9	62.8	65.8	69.1	63.2	65.8
9	14:00 to 15:00	66.7	65.1	68.9	62.4	65.1	68.9
10	15:00 to 16:00	67.1	63.3	69.5	69.7	63.3	69.5
11	16:00 to 17:00	68.5	63.5	67.8	62.2	63.5	67.8
12	17:00 to 18:00	68.5	62.8	66.5	68.2	65.4	66.5
13	18:00 to 19:00	66.9	61.7	65.4	63.1	61.7	65.4
14	19:00 to 20:00	62.5	60.2	63.9	65.7	60.2	64.2
15	20:00 to 21:00	63.3	59.5	63.5	61.4	59.5	63.5
16	21:00 to 22:00	58.9	61.3	62.6	66.8	62.7	62.6
Day Time		<75 dB (A)					

Continue...

Location Name		West Port – West Basin Main Gate					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		27-04-2022	10-05-2022	15-06-2022	02-07-2022	17-08-2022	19-09-2022
1	22:00 to 23:00	58.5	60.3	63.2	63.2	60.6	61.6
2	23:00 to 24:00	56.5	59.5	62.5	63.8	58.7	59.7
3	24:00 to 01:00	57.2	59.8	61.4	64.1	59.8	60.3
4	01:00 to 02:00	55.5	60.3	62.5	61.9	60.3	61.8
5	02:00 to 03:00	55.2	58.5	60.4	62.4	59.5	60.8
6	03:00 to 04:00	54.1	57.3	60.5	63.9	57.3	58.4
7	04:00 to 05:00	59.5	59.2	60.5	60.4	59.2	60.2
8	05:00 to 06:00	60.2	60.5	62.8	62.3	61.8	63.7
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981
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Results of Noise Level Monitoring

Location Name		West Port – Horti Culture					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		25-04-2022	12-05-2022	20-06-2022	04-07-2022	22-08-2022	22-09-2022
1	06:00 to 07:00	64.5	65.5	64.8	64.4	62.6	64.8
2	07:00 to 08:00	69.2	63.5	67.8	68.8	64.8	67.8
3	08:00 to 09:00	67.8	66.9	66.9	65.3	66.9	66.9
4	09:00 to 10:00	69.5	67.5	66.8	68.5	67.5	66.8
5	10:00 to 11:00	65.3	68.6	69.2	62.3	67.9	68.4
6	11:00 to 12:00	60.6	61.5	68.5	66.1	61.5	67.1
7	12:00 to 13:00	65.5	66.4	69.9	61.8	66.4	69.9
8	13:00 to 14:00	67.2	68.9	67.5	65.5	68.4	68.2
9	14:00 to 15:00	68.5	66.7	67.5	69.2	66.7	67.5
10	15:00 to 16:00	66.5	67.1	68.3	67.8	64.2	68.3
11	16:00 to 17:00	65.5	68.5	69.4	62.8	68.5	68.6
12	17:00 to 18:00	68.9	68.5	65.5	63.3	66.1	63.4
13	18:00 to 19:00	67.2	66.9	68.2	63.7	66.9	68.2
14	19:00 to 20:00	66.7	62.5	65.5	64.6	62.5	65.5
15	20:00 to 21:00	65.4	63.3	67.2	66.9	63.3	66.4
16	21:00 to 22:00	63.9	58.9	64.5	65.8	61.1	63.8
Day Time		<75 dB (A)					

Continue...

Location Name		West Port – Horti Culture					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		25-04-2022	12-05-2022	20-06-2022	04-07-2022	22-08-2022	22-09-2022
1	22:00 to 23:00	63.5	61.3	62.8	60.3	60.3	58.4
2	23:00 to 24:00	62.5	59.7	63.9	62.4	59.7	58.9
3	24:00 to 01:00	61.9	60.6	64.2	62.3	60.6	61.4
4	01:00 to 02:00	62.8	60.5	62.8	55.2	60.5	62.6
5	02:00 to 03:00	60.5	56.7	62.5	62.9	56.7	62.3
6	03:00 to 04:00	59.6	63.5	61.3	60.7	63.5	62.9
7	04:00 to 05:00	58.5	62.8	64.2	61.2	62.8	61.7
8	05:00 to 06:00	59.7	64.5	63.9	60.5	62.4	60.3
Night Time		<70 dB (A)					

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




Jaivik S. Tandel
(Manager - Operations)



MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023)

QCI-NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2015 Certified Company

ISO 45001:2018 Certified Company

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Results of Noise Level Monitoring

Location Name		WEST PORT - PMC OFFICE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		21-04-2022	13-05-2022	23-06-2022	15-07-2022	25-08-2022	26-09-2022
1	06:00 to 07:00	63.5	65.8	66.7	65.3	64.7	66.9
2	07:00 to 08:00	64.2	67.9	68.5	63.2	67.9	67.4
3	08:00 to 09:00	62.5	69.3	69.5	66.2	69.3	68.8
4	09:00 to 10:00	64.5	68.6	69.2	69.6	68.6	68.4
5	10:00 to 11:00	62.9	68.3	69.5	65.9	68.3	69.5
6	11:00 to 12:00	67.5	67.3	68.2	68.5	67.3	67.4
7	12:00 to 13:00	60.4	66.2	67.5	60.7	66.2	67.5
8	13:00 to 14:00	62.8	68.2	68.5	63.7	68.2	68.5
9	14:00 to 15:00	65.1	67.5	68	65.8	67.5	67.9
10	15:00 to 16:00	63.3	62.9	67.3	66.3	62.9	66.2
11	16:00 to 17:00	63.5	66.4	64.5	67.8	66.4	64.5
12	17:00 to 18:00	62.8	62.6	63.9	69.2	62.6	63.9
13	18:00 to 19:00	61.7	65.5	67.2	67.5	65.5	68.2
14	19:00 to 20:00	60.2	68.5	66.7	64.9	68.5	66
15	20:00 to 21:00	59.5	66.7	68.2	62.7	66.7	68.2
16	21:00 to 22:00	61.3	62.8	66.5	63.4	63.8	65.2
Day Time		<75 dB (A)					

Continue...

Location Name		WEST PORT - PMC OFFICE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		21-04-2022	13-05-2022	23-06-2022	15-07-2022	25-08-2022	26-09-2022
1	22:00 to 23:00	61.5	63.5	61.8	59.6	61.9	60.4
2	23:00 to 24:00	62.5	62.5	64.5	60.3	63.8	62.4
3	24:00 to 01:00	62.3	61.9	63.9	63.5	61.9	60.5
4	01:00 to 02:00	62.3	62.8	64.5	62.4	62.8	63.8
5	02:00 to 03:00	61.6	60.5	63.2	60.2	61.1	62.8
6	03:00 to 04:00	58.6	59.6	62.4	64.2	59.6	58.7
7	04:00 to 05:00	64.4	58.5	60.8	58.2	59.3	58.4
8	05:00 to 06:00	61.8	59.7	61.2	62.1	60.2	61.6
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	July – 2022		GPCB LIMIT	Method of Test
			D.G.Set No. S-1 (1500 KVA)	D.G.Set No. S-2 (1500 KVA)		
			15-07-2022	15-07-2022		
1	Particulate Matter	mg/Nm ³	20.34	19.4	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	16.78	15.34	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.55	20.17	50	IS 11255 (Part - 7)



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Sr. No.	Parameter	Unit	Sep-22	GPCB LIMIT	Method of Test
			D.G. Set-1 (2000 KVA)		
			30-09-2022		
1	Particulate Matter	mg/Nm3	27.45	150	IS 11255 (Part - 1)
2	Sulphur Dioxide	ppm	11.34	100	IS 11255 (Part - 2)
3	Oxide of Nitrogen	ppm	22.67	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	4.2	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	--	UERL/AIR/SOP/27

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	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

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	°C	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

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	--	--



"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 - 2022 to March - 2023

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-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	--	7.28	7.33	7.38	7.42	7.38	7.39	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	26	22	24	24	28	22	100	APHA 23 rd Ed.,2017,2540-D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 ° C)	mg/L	15	16	18	14	15	16	30	APHA 23 rd Ed.,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.72	0.84	0.7	0.74	0.72	0.84	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	50	23	33	40	50	34	1000	IS 1622: 1981		



Nilesh Patel
Mr. Nilesh Patel
Sr. Chemist

Nitin Tandel
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-23		Feb-23		Mar-23					
			10-01-2023	30-01-2023	11-02-2023	28-02-2023	13-03-2023	28-03-2023				
1.	pH @ 25 °C	--	7.41	7.35	7.22	7.21	7.28	7.24	6.5 to 9	APHA 23 rd Ed.,2017,4500-H ⁺ B		
2.	Total Suspended Solids	mg/L	24	26	22	24	26	24	100	APHA 23 rd Ed.,2017,2540 -D		
3.	Biochemical Oxygen Demand (BOD) (5 days at 20 °C)	mg/L	17	19	18	19	17	18	30	APHA 23 rd Ed,2017,5210-B 5-6		
4.	Residual chlorine	mg/L	0.82	0.88	0.82	0.88	0.92	0.94	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl-B		
5.	Fecal Coliform	MPN Index/100ml	50	60	40	80	60	50	1000	IS 1622: 1981		



Nilesh Patel

Nitin Tandel

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.	03-10-2022	87.36	42.26	21.68	33.36	0.95	NOT DETECTED	NOT DETECTED
2.	06-10-2022	76.04	37.83	29.32	37.88	1.00	NOT DETECTED	NOT DETECTED
3.	10-10-2022	84.38	32.76	24.35	31.79	1.15	NOT DETECTED	NOT DETECTED
4.	13-10-2022	82.47	33.08	21.16	27.21	1.12	NOT DETECTED	NOT DETECTED
5.	17-10-2022	77.63	29.61	23.63	28.44	1.00	NOT DETECTED	NOT DETECTED
6.	20-10-2022	80.64	39.17	26.84	32.24	1.00	NOT DETECTED	NOT DETECTED
7.	27-10-2022	78.47	38.27	32.02	41.78	1.15	NOT DETECTED	NOT DETECTED
8.	28-10-2022	86.69	31.93	18.52	26.35	1.07	NOT DETECTED	NOT DETECTED
9.	31-10-2022	84.28	28.46	29.59	37.58	1.00	NOT DETECTED	NOT DETECTED
10.	03-11-2022	85.45	42.45	21.87	27.85	1.15	3.57	NOT DETECTED
11.	07-11-2022	89.12	45.28	29.65	35.67	1.00	4.29	NOT DETECTED
12.	10-11-2022	82.56	36	16.57	28.52	1.00	2.39	NOT DETECTED
13.	14-11-2022	87.59	42.15	24.53	32.88	1.13	6.31	NOT DETECTED
14.	17-11-2022	89.15	44.56	28.78	33.18	1.0	3.84	NOT DETECTED
15.	21-11-2022	83.56	37.8	30.15	33.45	1.15	2.97	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.	24-11-2022	81.3	37.89	29.45	34.55	0.92	3.68	NOT DETECTED
17.	28-11-2022	73.26	30.15	27.59	32.41	1.20	6.14	NOT DETECTED
18.	01-12-2022	87.68	32.39	26.18	36.87	1.18	2.69	NOT DETECTED
19.	05-12-2022	78.36	36.83	34.68	42.24	0.94	3.27	NOT DETECTED
20.	08-12-2022	73.27	42.59	27.93	33.37	1.00	4.32	NOT DETECTED
21.	12-12-2022	83.59	31.29	21.78	29.24	1.16	3.47	NOT DETECTED
22.	15-12-2022	84.19	38.55	31.36	43.63	1.00	4.23	NOT DETECTED
23.	19-12-2022	87.35	33.04	27.35	41.29	1.00	4.83	NOT DETECTED
24.	22-12-2022	79.15	45.18	34.52	38.64	1.13	2.14	NOT DETECTED
25.	26-12-2022	84.38	37.26	32.69	37.13	1.00	2.59	NOT DETECTED
26.	29-12-2022	82.38	31.82	29.36	36.49	0.95	3.57	NOT DETECTED
27.	02-01-2023	67.39	37.73	18.26	27.38	1.00	4.28	NOT DETECTED
28.	05-01-2023	84.27	32.88	26.42	33.75	1.15	3.14	NOT DETECTED
29.	09-01-2023	66.24	31.17	32.57	43.29	1.12	3.96	NOT DETECTED
30.	12-01-2023	86.17	39.86	27.61	34.17	1.00	2.68	NOT DETECTED
31.	16-01-2023	70.32	43.97	33.78	38.86	1.14	3.52	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.	19-01-2023	79.28	31.05	34.5	42.39	1.00	3.97	NOT DETECTED
33.	23-01-2023	61.84	34.43	26.38	31.26	0.95	3.12	NOT DETECTED
34.	26-01-2023	67.14	32.68	28.73	36.29	1.15	3.68	NOT DETECTED
35.	30-01-2023	81.24	37.29	19.94	31.47	1.00	4.29	NOT DETECTED
36.	02-02-2023	86.11	42.48	14.33	23.67	0.95	4.12	NOT DETECTED
37.	06-02-2023	75.37	39.58	18.74	26.27	1.00	2.57	NOT DETECTED
38.	09-02-2023	81.59	36.64	23.19	36.58	1.15	4.27	NOT DETECTED
39.	13-02-2023	72.31	29.06	24.9	28.51	1.00	3.26	NOT DETECTED
40.	16-02-2023	89.85	35.89	27.64	32.85	1.12	3.96	NOT DETECTED
41.	20-02-2023	84.36	36.27	31.63	37.48	1.16	3.38	NOT DETECTED
42.	23-02-2023	86.42	38.61	29.26	36.72	1.00	4.73	NOT DETECTED
43.	27-02-2023	68.17	39.85	31.73	39.25	1.00	2.38	NOT DETECTED
44.	02-03-2023	87.22	45.83	21.43	29.82	1.00	3.96	NOT DETECTED
45.	06-03-2023	74.89	41.54	19.87	24.14	1.14	2.76	NOT DETECTED
46.	09-03-2023	89.13	39.79	21.36	28.59	1.12	3.58	NOT DETECTED
47.	13-03-2023	71.6	36.58	19.31	25.64	0.98	4.12	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.	16-03-2023	87.49	39.51	24.53	31.72	1.11	4.77	NOT DETECTED
49.	20-03-2023	76.12	38.64	27.55	34.89	1.17	4.82	NOT DETECTED
50.	23-03-2023	85.42	41.26	29.64	37.41	1.13	3.12	NOT DETECTED
51.	27-03-2023	84.26	36.65	27.48	35.99	1.15	3.07	NOT DETECTED
52.	30-03-2023	81.78	39.88	24.94	31.26	1.12	4.27	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.	03-10-2022	78.36	42.69	27.37	32.68	1.00	NOT DETECTED	NOT DETECTED
2.	06-10-2022	72.63	36.72	28.48	39.17	1.15	NOT DETECTED	NOT DETECTED
3.	10-10-2022	79.73	29.16	24.31	34.52	1.05	NOT DETECTED	NOT DETECTED
4.	13-10-2022	76.93	33.26	21.42	34.5	1.15	NOT DETECTED	NOT DETECTED
5.	17-10-2022	86.48	39.04	28.63	37.71	0.95	NOT DETECTED	NOT DETECTED
6.	20-10-2022	81.53	36.34	30.47	36.94	1.00	NOT DETECTED	NOT DETECTED
7.	27-10-2022	85.21	34.92	29.03	34.82	1.15	NOT DETECTED	NOT DETECTED
8.	28-10-2022	84.15	32.71	23.83	36.26	1.00	NOT DETECTED	NOT DETECTED
9.	31-10-2022	89.29	42.37	31.79	41.26	0.92	NOT DETECTED	NOT DETECTED
10.	03-11-2022	89.13	29.56	17.68	23.45	1.00	3.68	NOT DETECTED
11.	07-11-2022	84.34	35.67	21.45	28.76	1.20	6.21	NOT DETECTED
12.	10-11-2022	78.95	33.12	23.68	30.15	1.14	4.75	NOT DETECTED
13.	14-11-2022	68.92	29.12	13.45	24.51	1.20	3.39	NOT DETECTED
14.	17-11-2022	76.54	35.67	23.17	30.15	1.00	4.57	NOT DETECTED
15.	21-11-2022	88.15	36.93	22.67	28.17	1.10	2.16	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.	24-11-2022	82.45	32.45	23.45	31.25	1.10	5.32	NOT DETECTED
17.	28-11-2022	87.15	43.45	24.53	30.16	1.00	3.14	NOT DETECTED
18.	01-12-2022	73.28	34.14	14.37	27.42	0.97	2.14	NOT DETECTED
19.	05-12-2022	86.14	31.72	16.63	34.42	1.00	3.74	NOT DETECTED
20.	08-12-2022	69.38	28.54	19.79	26.13	1.20	2.68	NOT DETECTED
21.	12-12-2022	85.17	36.81	24.64	36.79	0.95	2.41	NOT DETECTED
22.	15-12-2022	81.29	27.18	18.57	23.34	1.15	3.29	NOT DETECTED
23.	19-12-2022	78.59	32.86	26.73	34.88	1.00	4.14	NOT DETECTED
24.	22-12-2022	81.96	28.47	17.04	27.38	1.15	3.82	NOT DETECTED
25.	26-12-2022	73.64	36.27	19.23	26.15	1.00	4.77	NOT DETECTED
26.	29-12-2022	85.4	39.83	24.76	31.48	0.96	2.26	NOT DETECTED
27.	02-01-2023	87.36	27.64	19.59	22.48	1.15	3.69	NOT DETECTED
28.	05-01-2023	62.89	42.47	24.51	28.75	1.18	2.94	NOT DETECTED
29.	09-01-2023	71.64	36.72	27.39	34.68	1.15	4.37	NOT DETECTED
30.	12-01-2023	80.27	41.97	21.85	34.71	1.00	3.94	NOT DETECTED
31.	16-01-2023	86.34	38.57	29.47	38.39	1.07	2.68	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.	19-01-2023	71.42	38.16	17.35	28.18	1.15	3.88	NOT DETECTED
33.	23-01-2023	68.79	34.62	23.94	29.72	1.14	2.58	NOT DETECTED
34.	26-01-2023	71.29	39.56	27.48	36.87	1.00	3.50	NOT DETECTED
35.	30-01-2023	78.57	31.72	18.28	26.36	1.15	3.48	NOT DETECTED
36.	02-02-2023	72.49	36.71	25.89	31.27	1.00	2.17	NOT DETECTED
37.	06-02-2023	87.73	33.47	27.3	36.91	1.16	3.62	NOT DETECTED
38.	09-02-2023	89.62	41.59	21.42	28.82	1.00	3.98	NOT DETECTED
39.	13-02-2023	76.38	44.68	34.99	38.74	0.95	4.03	NOT DETECTED
40.	16-02-2023	68.45	35.04	23.61	32.38	1.13	3.52	NOT DETECTED
41.	20-02-2023	89.61	32.16	24.48	31.36	1.00	4.17	NOT DETECTED
42.	23-02-2023	74.19	39.37	29.53	37.26	0.97	3.83	NOT DETECTED
43.	27-02-2023	79.53	36.83	22.79	33.17	1.19	2.48	NOT DETECTED
44.	02-03-2023	83.65	41.36	32.75	39.14	1.16	2.78	NOT DETECTED
45.	06-03-2023	80.36	36.86	34.13	41.74	1.12	4.15	NOT DETECTED
46.	09-03-2023	73.48	32.16	28.27	35.63	1.15	4.37	NOT DETECTED
47.	13-03-2023	85.49	34.68	29.23	32.79	1.12	4.86	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.	16-03-2023	81.38	31.43	23.86	28.67	1.00	3.7	NOT DETECTED
49.	20-03-2023	89.29	40.56	36.63	42.05	1.17	3.53	NOT DETECTED
50.	23-03-2023	83.25	36.27	32.94	38.52	1.00	4.19	NOT DETECTED
51.	27-03-2023	73.59	33.64	29.58	36.19	1.11	2.88	NOT DETECTED
52.	30-03-2023	76.46	37.29	31.44	37.98	1.13	3.65	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.	03-10-2022	82.56	39.85	26.91	34.25	1.06	4.12	NOT DETECTED
2.	06-10-2022	84.83	35.76	21.24	28.96	0.90	NOT DETECTED	NOT DETECTED
3.	10-10-2022	88.51	37.14	28.53	33.05	1.12	NOT DETECTED	NOT DETECTED
4.	13-10-2022	89.2	41.86	17.36	24.17	1.00	NOT DETECTED	NOT DETECTED
5.	17-10-2022	89.73	28.62	24.12	34.63	1.15	NOT DETECTED	NOT DETECTED
6.	20-10-2022	79.28	31.38	31.16	37.34	1.09	NOT DETECTED	NOT DETECTED
7.	27-10-2022	78.13	34.93	19.68	28.63	1.10	NOT DETECTED	NOT DETECTED
8.	28-10-2022	83.63	36.03	24.36	31.24	1.00	NOT DETECTED	NOT DETECTED
9.	31-10-2022	81.64	32.48	23.82	28.83	1.17	NOT DETECTED	NOT DETECTED
10.	03-11-2022	89.12	45.67	21.32	27.1	1.10	4.74	NOT DETECTED
11.	07-11-2022	87.15	37.25	17.89	24.56	1.00	3.28	NOT DETECTED
12.	10-11-2022	88.24	34.56	22.86	28.92	0.92	4.71	NOT DETECTED
13.	14-11-2022	84.34	42.78	24.38	30.15	0.95	3.58	NOT DETECTED
14.	17-11-2022	86.77	39.83	14.56	27.84	1.00	2.81	NOT DETECTED
15.	21-11-2022	89.54	48.25	25.13	31.24	1.12	5.63	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.	24-11-2022	79.14	37.72	21.35	27.85	1.00	3.79	NOT DETECTED
17.	28-11-2022	84.56	41.35	23.94	29.36	1.15	2.37	NOT DETECTED
18.	01-12-2022	82.39	36.26	14.63	32.18	1.95	2.38	NOT DETECTED
19.	05-12-2022	73.49	32.49	19.47	27.36	1.15	4.71	NOT DETECTED
20.	08-12-2022	83.48	37.81	24.32	31.88	1.00	2.89	NOT DETECTED
21.	12-12-2022	76.49	34.68	18.75	24.17	1.00	2.38	NOT DETECTED
22.	15-12-2022	88.46	32.53	17.93	29.49	1.00	3.46	NOT DETECTED
23.	19-12-2022	84.27	43.26	21.53	34.06	1.15	3.18	NOT DETECTED
24.	22-12-2022	89.64	34.07	26.93	37.38	0.95	4.69	NOT DETECTED
25.	26-12-2022	72.79	39.86	16.32	32.5	1.00	4.72	NOT DETECTED
26.	29-12-2022	79.84	41.55	22.87	29.13	1.14	2.42	NOT DETECTED
27.	02-01-2023	89.42	45.26	24.79	26.46	2.01	3.28	NOT DETECTED
28.	05-01-2023	76.31	37.48	26.31	34.63	1.17	2.47	NOT DETECTED
29.	09-01-2023	83.47	31.28	29.36	37.51	1.00	4.39	NOT DETECTED
30.	12-01-2023	63.88	39.74	26.22	34.75	1.15	4.19	NOT DETECTED
31.	16-01-2023	73.59	26.63	28.15	32.19	1.12	2.47	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.	19-01-2023	78.36	32.4	28.62	39.57	1.00	2.98	NOT DETECTED
33.	23-01-2023	82.18	38.51	32.44	36.14	1.12	4.15	NOT DETECTED
34.	26-01-2023	89.86	46.72	23.67	28.49	0.95	3.78	NOT DETECTED
35.	30-01-2023	72.47	33.56	29.83	37.53	1.04	3.27	NOT DETECTED
36.	02-02-2023	86.34	38.22	29.47	38.82	1.16	4.17	NOT DETECTED
37.	06-02-2023	89.21	42.96	31.63	39.71	1.00	3.63	NOT DETECTED
38.	09-02-2023	71.48	38.62	34.59	41.26	1.18	2.47	NOT DETECTED
39.	13-02-2023	87.63	36.84	28.91	37.63	1.12	3.61	NOT DETECTED
40.	16-02-2023	70.16	41.39	32.17	39.83	1.00	3.89	NOT DETECTED
41.	20-02-2023	81.93	38.17	34.49	43.16	1.23	3.16	NOT DETECTED
42.	23-02-2023	88.57	44.18	28.93	34.75	0.94	2.98	NOT DETECTED
43.	27-02-2023	73.64	37.51	31.26	38.91	1.00	4.13	NOT DETECTED
44.	02-03-2023	85.77	43.71	34.86	42.65	1.29	3.96	NOT DETECTED
45.	06-03-2023	78.21	37.64	29.15	35.79	1.17	2.79	NOT DETECTED
46.	09-03-2023	75.97	36.56	27.63	32.17	1.05	3.14	NOT DETECTED
47.	13-03-2023	84.1	39.27	31.59	39.26	1.13	3.78	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.	16-03-2023	87.43	34.75	26.66	32.41	0.09	4.13	NOT DETECTED
49.	20-03-2023	70.63	41.49	32.53	38.86	1.15	3.57	NOT DETECTED
50.	23-03-2023	79.42	36.64	34.38	37.94	1.00	3.04	NOT DETECTED
51.	27-03-2023	88.75	44.59	36.16	43.29	1.23	3.98	NOT DETECTED
52.	30-03-2023	72.37	38.74	31.28	38.43	1.15	4.17	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		West Port – West Basin Main Gate					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		20-10-2022	21-11-2022	19-12-2022	19-01-2023	20-02-2023	20-03-2023
1	06:00 to 07:00	63.8	67.6	63.3	62.6	62.4	61.4
2	07:00 to 08:00	63.5	66.3	61.7	63.7	64.3	63.8
3	08:00 to 09:00	66.9	62.5	64.8	63.9	62.5	62.6
4	09:00 to 10:00	64.8	68.1	63.5	64.8	68.1	64.8
5	10:00 to 11:00	68.6	65.9	66.2	66.2	67.8	62.7
6	11:00 to 12:00	61.5	67.7	61.3	65.2	67.7	68.4
7	12:00 to 13:00	68.6	58.8	65.4	66.4	60.3	64.7
8	13:00 to 14:00	66.2	64.2	64.3	67.9	62.7	69
9	14:00 to 15:00	66.7	69.4	68.9	68.9	69.4	65.8
10	15:00 to 16:00	67.1	69.5	68.3	66.3	67.8	67.4
11	16:00 to 17:00	67.4	63.8	67.8	62.5	65.3	65.2
12	17:00 to 18:00	68.5	66.5	65.2	65.2	68.2	64.1
13	18:00 to 19:00	66.9	62.6	63.8	62.4	62.6	67.4
14	19:00 to 20:00	60.3	65.9	63.9	63.9	68.3	64.8
15	20:00 to 21:00	63.3	63.5	62.3	61.5	63.5	63.2
16	21:00 to 22:00	57.9	63.2	62.6	64.9	64.6	60.3
Day Time		<75 dB (A)					

Continue...

Location Name		West Port – West Basin Main Gate					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		20-10-2022	21-11-2022	19-12-2022	19-01-2023	20-02-2023	20-03-2023
1	22:00 to 23:00	57.8	61.9	60.7	59.6	61.9	61.5
2	23:00 to 24:00	56.5	61.3	64.8	61.7	58.4	56.9
3	24:00 to 01:00	57.2	57.8	63.9	62.5	56.8	58.3
4	01:00 to 02:00	54.2	62.5	62.4	60.2	59.4	61.1
5	02:00 to 03:00	55.2	56.3	63.8	63.8	57.7	56.3
6	03:00 to 04:00	53.6	58.2	64.1	64.1	60.6	57.9
7	04:00 to 05:00	60.8	61.5	59.6	59.4	59	60.7
8	05:00 to 06:00	57.6	63.2	61.6	61.6	61.3	58.4
Night Time		<70 dB (A)					

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




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring

Location Name		West Port – Horti Culture					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		27-10-2022	24-11-2022	22-12-2022	23-01-2023	23-02-2023	23-03-2023
1	06:00 to 07:00	62.6	63.5	61.8	61.2	64.7	60.7
2	07:00 to 08:00	69.2	68.4	67.8	63.5	68.4	65.7
3	08:00 to 09:00	67.8	68.2	63.7	62.3	64.3	67.4
4	09:00 to 10:00	69.5	68.9	64.8	63.2	67.5	65.3
5	10:00 to 11:00	61.7	63.2	64.1	67.4	63.2	62.8
6	11:00 to 12:00	61.4	67.4	68.5	68.5	64.9	67.1
7	12:00 to 13:00	65.5	69.9	69.9	64.7	62.1	64.8
8	13:00 to 14:00	67.2	67.5	63.2	63.2	67.5	62.8
9	14:00 to 15:00	69.5	64.3	67.5	63.1	63.8	67.5
10	15:00 to 16:00	66.5	68.3	67.4	68.3	65.9	62.1
11	16:00 to 17:00	65.5	67.1	64.3	67.5	67.1	63.9
12	17:00 to 18:00	64.1	64.8	66.7	66.7	62.4	64.9
13	18:00 to 19:00	67.2	68.2	68.2	69.2	67.5	69.4
14	19:00 to 20:00	67.2	64.8	64.4	65.2	69.8	61
15	20:00 to 21:00	65.4	61.3	67.2	68.4	62.6	65.8
16	21:00 to 22:00	64.8	63.9	63	62.8	62.1	63.2
Day Time		<75 dB (A)					

Continue...

Location Name		West Port – Horti Culture					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		27-10-2022	24-11-2022	22-12-2022	23-01-2023	23-02-2023	23-03-2023
1	22:00 to 23:00	62.8	59.3	58.5	58.1	56.6	58.2
2	23:00 to 24:00	62.5	63.9	60.3	61.2	58.4	59.4
3	24:00 to 01:00	61.9	63.2	61.7	63.5	54.6	54.6
4	01:00 to 02:00	62.8	62.8	58.6	59.8	59.4	59.4
5	02:00 to 03:00	61.3	61.8	60.7	61.9	60.2	61.8
6	03:00 to 04:00	59.6	61.3	61.2	61.2	56	56
7	04:00 to 05:00	58.5	62	60.8	61.2	57.5	55.9
8	05:00 to 06:00	58.4	58.9	59.4	60.3	58.9	57.2
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		WEST PORT - PMC OFFICE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		28-10-2022	28-11-2022	26-12-2022	26-01-2023	27-02-2023	27-03-2023
1	06:00 to 07:00	64.1	62.4	59.1	60.7	60.8	64.1
2	07:00 to 08:00	64.2	64.3	68.5	68.5	63.6	62.3
3	08:00 to 09:00	61.4	67.4	67.4	67.4	68.2	64.3
4	09:00 to 10:00	64.5	68.8	68.2	63.6	68.8	65.2
5	10:00 to 11:00	63.7	66.5	69.5	67.3	69.1	68.9
6	11:00 to 12:00	67.5	68.2	66.3	61.4	67.4	64.3
7	12:00 to 13:00	60.4	69.3	68.4	64.8	69.3	62.8
8	13:00 to 14:00	64.8	68.5	64.1	67.5	65.4	65.1
9	14:00 to 15:00	65.1	67.4	69.4	68.6	67.4	63.8
10	15:00 to 16:00	65.5	61.2	64.6	62.4	63.2	65.2
11	16:00 to 17:00	63.5	65.5	67.2	62.1	66.3	67.9
12	17:00 to 18:00	64.8	68.6	64	67.8	68.6	68.6
13	18:00 to 19:00	61.7	67.2	63.5	64.3	69.9	69.9
14	19:00 to 20:00	61.3	64.9	67.8	67.8	67.2	63.1
15	20:00 to 21:00	59.5	68.2	68.2	67.2	64.1	65.8
16	21:00 to 22:00	58.9	67.8	65.7	64.9	64.6	63.8
Day Time		<75 dB (A)					

Continue...

Location Name		WEST PORT - PMC OFFICE					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		28-10-2022	28-11-2022	26-12-2022	26-01-2023	27-02-2023	27-03-2023
1	22:00 to 23:00	58.8	60.5	59.6	60.7	59.4	59.4
2	23:00 to 24:00	62.5	63.6	59.4	59.4	62.1	57.6
3	24:00 to 01:00	61.2	62.1	62.4	62.1	57.4	57.4
4	01:00 to 02:00	62.3	58.9	62.4	63.9	58.5	59.8
5	02:00 to 03:00	60.3	62.7	60.2	63.7	57.1	57.1
6	03:00 to 04:00	58.6	63.7	63.8	62.5	60.3	61.2
7	04:00 to 05:00	63.5	61.9	58.1	59	56.7	58.5
8	05:00 to 06:00	61.8	59.5	61.6	60.2	59.5	58
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	Jan – 2023		GPCB LIMIT	Method of Test
			D.G.Set No. S-1 (1500 KVA)	D.G.Set No. S-2 (1500 KVA)		
			31-01-2023	31-01-2023		
1	Particulate Matter	mg/Nm ³	20.83	20.12	150	IS 11255 (Part - 1)
2	Sulfur Dioxide as SO ₂	ppm	17.36	15.69	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	23.47	21.26	50	IS 11255 (Part - 7)



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

Sr. No.	Parameter	Unit	Mar-23	GPCB LIMIT	Method of Test
			D.G. Set-1 (2000 KVA)		
			29-03-2023		
1	Particulate Matter	mg/Nm3	25.16	150	IS 11255 (Part - 1)
2	Sulphur Dioxide	ppm	10.58	100	IS 11255 (Part - 2)
3	Oxide of Nitrogen	ppm	20.36	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.57	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	--	UERL/AIR/SOP/27

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	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

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	°C	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

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	--	--