

Ref No. APSEZL/EnvCell/2025-26/063

Date: 08.09.2025

To,
✓ **Member Secretary**
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10-A, Gandhinagar – 382010

Dear Sir,

Sub: Environmental Statement for the financial year ending 31st March, 2025 for **M/s Adani Ports and Special Economic Zone Limited.**

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

With reference to the above-mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for **M/s Adani Ports and Special Economic Zone Limited, Plot No. 169/P & Unsurveyed / Reclaimed Land near Navinal Isand, Taluka: Mundra, Dist. Kutch - 370421** for the financial year ending 31st March 2025.

Thank you,

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

[Handwritten signature]

[Handwritten signature] 11/09/25

Authorized Signatory

Encl: As above.

Copy to: The Regional Officer, Gujarat Pollution Control Board (East-Kutch), Gandhinagar.
Gandhinagar-382010

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

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited**(PCB ID: 17739)****FORM V**

(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2025**PART – A**

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	: Mr. Sujalkumar Shah CEO – Mundra & Tuna Port Adani Ports and SEZ Limited 4 th Floor, Adani House, Mundra, Kutch – 370421. Ph No. (02838) 255000																										
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	: Red-Large NA NA																										
(iii)	Production Capacity	: <table border="1"><thead><tr><th>Sr. No.</th><th>Product/Services</th><th>Capacity</th></tr></thead><tbody><tr><td>1.</td><td>General Cargo Handling</td><td rowspan="2">42 MMTPA</td></tr><tr><td>2.</td><td>Dry Cargo Handling</td></tr><tr><td>3.</td><td>Liquid Cargo (Chemical/POC Products)</td><td>20 MMTPA</td></tr><tr><td>4.</td><td>Import, Storage and Distribution of Edible oil</td><td>2.20 MMTPA</td></tr><tr><td>5.</td><td>Import, Storage and Distribution of Bitumin</td><td>0.30 MMTPA</td></tr><tr><td>6.</td><td>Container Terminal Handling Operation</td><td>7.8 Million TEUs/Annum</td></tr><tr><td>7.</td><td>waste destruction system for destruction of decomposition/destruction of municipal solid waste</td><td>3.5 Cubic Meter (MSW Destruction Capacity @ 500 kg/day)</td></tr><tr><td>8.</td><td>Oil Water Separator (Flame Proof) to remove oil portion from slop oil received from vessels/ships</td><td>25 m³/Hr.</td></tr></tbody></table>	Sr. No.	Product/Services	Capacity	1.	General Cargo Handling	42 MMTPA	2.	Dry Cargo Handling	3.	Liquid Cargo (Chemical/POC Products)	20 MMTPA	4.	Import, Storage and Distribution of Edible oil	2.20 MMTPA	5.	Import, Storage and Distribution of Bitumin	0.30 MMTPA	6.	Container Terminal Handling Operation	7.8 Million TEUs/Annum	7.	waste destruction system for destruction of decomposition/destruction of municipal solid waste	3.5 Cubic Meter (MSW Destruction Capacity @ 500 kg/day)	8.	Oil Water Separator (Flame Proof) to remove oil portion from slop oil received from vessels/ships	25 m ³ /Hr.
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8.	Oil Water Separator (Flame Proof) to remove oil portion from slop oil received from vessels/ships	25 m ³ /Hr.																										
(iv)	Year of Establishment	: 1998																										
(v)	Date of last Environment Statement submitted	: 02/09/2024																										

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited
(PCB ID: 17739)

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	Average
Process (Gardening / Horticulture / Sprinkling)	1323.13 m ³ /day
Cooling & others	
Domestic	78.61 m ³ /day

Details of Water Consumption for the year 2024-25 is enclosed as **Annexure – 1**.

Name of Products	Process Water Consumption per unit of Product Output*	
	During the current financial year (2023-24)	During the current financial year (2024-25)
Handling, Storage and Distribution of General Cargo, Liquid Cargo, Dry Cargo, Bitumen and Container operation*	0.0049 KL/MT of Cargo Handled	0.0042 KL/MT of Cargo Handled

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

(ii) Raw Material Consumption

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the current financial year (2023-24)	During the current financial year (2024-25)
Total Cargo Handled*	Dry Cargo + General Cargo	1,76,85,512 MT	30569641 MT
	Liquid Cargo	48,81,538 MT	4993031 MT
	Edible Oil	18,73,912 MT	2191063 MT
	Bitumen	41,085 MT	87541 MT
	Container Operation	56,88,343 TEUs	5692792 TEUs

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

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited**(PCB ID: 17739)****PART – C****Pollutants discharged to Environment/Unit of Output**
(Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (Mass/day)		Concentrations of pollutants in discharges		Percentage of variation from prescribed standards with reasons
	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(a) Waste Water	pH	--	pH	7.23	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. ETP having capacity of 265 KLD. 2. 22953 KL Treated water discharged during April 2024 – March 2025. was utilized for horticulture / greenbelt purpose within premises. (Attached as Annexure-1) 3. Analysis reports of treated water are enclosed as Annexure – 2.
	Total Suspended Solids	1.99	Total Suspended Solids	31.67	
	COD	5.42	COD	86.18	
	BOD (3 Days @ 27 °C)	1.59	BOD (3 Days @ 27 °C)	25.27	
	Oil & Grease	BDL (MDL:2.0)	Oil & Grease	BDL (MDL:2.0)	
(b) Air (14 Nos DG Stack + 02 nos hot water generator stack +02 Nos Thermic Fluid Heater)	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. DG sets are provided as a standby power source and used during power failure. Analysis reports of stack monitoring are enclosed as Annexure – 2. 2. The ambient air quality monitoring is being done regularly (twice a week) through NABL and MoEF&CC recognized laboratory namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi. 3. Analysis reports of ambient air quality monitoring are enclosed as Annexure – 2
	Particulate Matter (PM)	1.94	Particulate Matter (mg/Nm ³)	20.82	
	Sulphur Dioxide (SO ₂)	2.11	Sulphur Dioxide (PPM)	9.94	
	Nitrogen Oxide (NO _x)	3.51	Nitrogen Oxide (NO _x) (PPM)	22.98	

Details of treated water discharge for the year 2024-25 are enclosed as **Annexure – 1.**

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited

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PART – D

Hazardous Wastes

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2023-24)	During the current financial year (2024-25)
(a) From Process	Annexure – 3*	
(b) From Pollution Control facilities		

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the current financial year (2023-24)	During the current financial year (2024-25)
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities	Refer Annexure – 3*	
(C-1) Quantity recycled or reutilized within the unit		
(C-2) Sold		
(C-3) Disposed		

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

PART - F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

- "Zero Waste company" initiative by APSEZ i.e. No waste is being sent to landfill or incineration facility @ Adani Ports & SEZ, rather being managed through 5 R principal of waste Management.
- APSEZ has eminent material recovery facility (MRF), having appropriate facility to proper segregate & recover the materials as per set process. Mixed Waste is being segregated via specialized mix waste segregation machine in two forms –Bio and Non bio without manual segregation, where risk to health hazards is minimized. Further waste is segregated into 16 streams at MRF, which is sent to different end users following the 5 R principle. To manage all operation of MRF, APSEZ developed local vendor through his past learnings and employed local women staff mainly to segregate waste.
- Wet Waste is being managed through Organic Waste Composting Facility and Biogas generation.
- Installed 02 no's biogas plant at Central Kitchen location. This plant is sufficient to manage the food Waste generated from APSEZ area. (700 Kg + 200 kg per day)
- Dry waste and e-waste collection drive is being organized every month within townships to collect municipal solid waste as well as e-waste from households.
- Plastic Free APSEZ Drive-which demonstrate commitment towards elimination of single use plastic
- Plastic free APSEZ Drive:
 - APSEZ pasted stickers spreading awareness among their zone as plastic are prohibited now.
 - 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 Adani Vidya Mandir, Bhadreswar.
 - APSEZ, Mundra organized the beach cleaning activity on 2nd April 2024 at Mandavi Beach on the occasion of National Maritime Day/Week. The event was not just a routine cleanup, but a testament to the collective dedication of Adani employees, their families, children, and the Coast Guard team towards environmental stewardship and maritime heritage preservation. Around 250 kgs of waste was collected and disposed of as RDF in Ambuja Cement.
 - Awareness sessions organized among department and contract workers.
 - Made shop keepers and canteen owners to stop providing plastic carry bags to carry the material.
 - Regular supervision by Team Members at Port Canteens and Shops townships for verification of prohibition of plastic.
- APSEZ has awarded with Zero Waste to Landfill Management System certification (Certificate No.: CII/ZWL/2025/001) by the Confederation of Indian Industry (CII), valid until 22nd December 2027.
- Sludge generated from STP is being utilized as manure for horticulture purpose.

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited

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- SEZ industries are managing their waste as per own standard procedure and following regulatory norms.
- APSEZ, demonstrating its dedication to environmental responsibility, organized a week-long program for World Environment Day/Week 2024 (June 4th - 12th). The theme, "Land Restoration, Desertification, and Drought Resilience," led a series of events focused on planting trees, raising awareness, and promoting action. Over 1,000 saplings were planted near the ASHAPURA Canteen. Employees received indoor plants and participated in a cleanliness drive, collecting nearly 500 kg of waste responsibly disposed of as fuel. An awareness campaign targeting children in Shantivan & Samundra Colony focused on banning single-use plastic and water conservation. Knowledge sharing was fostered through an external training program on environmental regulations for APSEZ employees and other businesses in the SEZ. Encouraging creativity, APSEZ held online quizzes, poster competitions and waste to best. The week concluded with a special event at Adani Public School, where students took an environmental oath and received Tulsi plants. Winners of various competitions were also recognized.

PART - G

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

- Domestic sewage generated from township & Hospital is treated into 2.5 MLD capacity STP having latest MBR technology.
- Wastewater generated from the hospital is being pretreated with hypochlorite solution and further sent to the further treatment to 2.5 MLD capacity STP at Samundra Township.
- Treated sewage is being utilized by the horticulture department for plantation and gardening of AMSIPL project and Mundra SEZ greenbelt development to conserve the freshwater consumption.

Energy Savings (APSEZ)

- 217 nos. of Electrical truck Vehicle for internal movement of material (E-ITV's).
- 10 nos. of Electrical Car for movement of employees and all are working.
- Replacement of diesel loco by Electrified railway line of approx. 91 km from West port to Adipur Railway station.
- Installed 8.8 MW roof top solar generating plant at various locations and 22.4 MW (10.4 MW installed in 2023-24) wind generating plant in SEZ in Mundra.
- Installed 8.8 MW roof top solar generating plant at various locations in SEZ in Mundra which is generated nearly 8.54 million units in FY 2024-25 and utilized the renewable source of energy for captive use this reduced the emission of CO₂ by nearly 7002 tCo₂e.

• Water Conservation:

- Water reducers have been installed in the Residence Area and various offices.
- Waterless urinals have been placed in various offices.
- Modifications of flush tank have been added in water system of the toilet area in Port User Buildings.
- Recollection of water provided for hydro testing through water.

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited

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PART – H

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

- APSEZ has started 8000 nos of plantation at Moti Bhujpur under CER activity under the project 1840 ha. EC condition to showcase its commitment for protection of environment & climate change.
- Treated water from STP is used for gardening and horticulture activities within APSEZ premises to conserve freshwater consumption.
- Unit has formed a dedicated Horticulture department & developing green belt within port premises.
- In entire APSEZ more than 457.99 ha. area is developed as greenbelt with samplings of more than 9.06 Lacs.
- The following safeguard measures are taken for abatement of dust and noise emissions.
 - ✓ Regular sprinkling on road and other open areas
 - ✓ Regular cleaning of roads
 - ✓ Development of greenbelt along the periphery of the storage yards/back up area
 - ✓ D.G. Sets having acoustic enclosures.

PART – I

Any other particulars for improving the quality of the environment:

- Monitoring of environmental parameters such as Air, Noise, and wastewater quality being done regular basis through MoEF&CC & NABL recognized laboratory (M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi).
- APSEZ Budget for environmental management measures (including horticulture) for the FY 2024-25 is to the tune of INR **1340.21** lakh. Out of which, Approx. INR **1029.51** is spent during the year FY 2024-25. Detailed breakup of the expenditures for the FY 2024-25 is attached as **Annexure – 4**.
- APSEZ is driving paperless office and plastic free drive to eliminate the use of papers and plastic materials to the extent possible within ports, SEZ and residential townships.



Date: 08-09-2025

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

Designation: **Head-Environment Cell**

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

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited
(PCB ID: 17739)

Annexure – 1

**Details of Water Consumption and Treated Water Discharge
(Apr-24 to Mar-25)**

Month	Water Consumption (KL)			Treated water, KL
	Category-1 (Gardening, Sprinkling), KL	Category-2 (Domestic), KL	Total, KL	
Apr-24	48125	3449	51574	2759
May-24	50441	4358	54799	3486
Jun-24	50963	3890	54853	3112
Jul-24	44252	1379	45631	1103
Aug-24	43348	1191	44539	953
Sep-24	32364	2004	34368	1603
Oct-24	36386	1880	38266	1504
Nov-24	41261	1736	42997	1389
Dec-24	35989	1773	37761	1418
Jan-25	38280	2233	40512	1786
Feb-25	32362	1821	34183	1457
Mar-25	29174	2979	32153	2383
Total	482944	28691	511636	22953
Averg. Per Month	40245	2391	42636	1913
Averg. Per Day	1323.14	78.61	1402	62.88

MARINE WATER MONITORING SUMMARY REPORT

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.11	7.94	7.96	7.81	8.05	7.89	7.98	7.74	7.91	7.82	8.12	7.94	IS 3025 (Part 11):2022
2.	Temperature	°C	29.9	29.8	30.5	30.4	30.7	30.6	30.1	30	30	29.9	29.9	29.8	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	138	118	144	120	132	118	98	82	142	126	128	102	APHA 24th Ed., 2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL(MDL :1.0)	3.1	BDL(MDL :1.0)	2.9	BDL(MDL :1.0)	3.1	BDL(MDL :1.0)	2.6	BDL(MDL :1.0)	2.8	BDL(MDL :1.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	6.12	5.92	6.02	5.77	5.93	5.68	6.42	6.22	6.59	6.3	6.69	6.4	APHA 24th Ed.2023,4500 -O, B
6.	Salinity	ppt	35.86	37.11	35.92	37.28	38.82	37.15	36.12	36.88	35.78	36.71	35.87	36.64	By Calculation
7.	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)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	IS 3025 (Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.39	3.06	3.55	3.23	3.71	3.39	3.55	3.39	1.94	1.61	2.32	1.72	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.543	0.478	0.609	0.565	0.565	0.522	0.456	0.435	0.174	0.13	0.379	0.312	APHA 24th Ed.2023,4500 NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	4.22	4.11	4.48	4.37	4.43	4.37	3.8	3.69	3.954	3.85	2.59	2.16	APHA 24th Ed. 2023,4500-NH3 B
11.	Phosphates as PO ₄	μmol/L	1.68	1.58	1.9	1.68	1.16	1.05	1.05	BDL(MDL :0.4)	1.37	1.16	1.47	1.26	APHA 24th Ed.2023,4500 -P, D

12.	Total Nitrogen	μmol/L	8.153	7.648	8.639	8.165	8.705	8.282	7.806	7.515	6.068	5.59	5.289	4.192	APHA 24th Ed. 2023, 4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th Ed. 2023, 5520 F
14.	Total Dissolved Solids	mg/L	36410	37180	36550	37210	36480	37180	36120	36980	34970	35960	34740	35830	IS 3025(Part 16):2023
15.	COD	mg/L	23.9	7.9	28.17	12.07	23.9	8	16.1	4	20	8	24.1	12	IS 3025(Part 58):2023

Continue...

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETER S	UNIT	April-24		May-24		June-24		July-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A	Phytoplankton														
1.	Chlorophyll	mg/m³	3.05	3.25	3.06	3.24	3.08	3.26	3.07	3.27	3.08	3.26	3.07	3.07	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2	1.56	3	1.59	4	1.56	3	1.55	4	1.57	6	6	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	109	90	110	92	114	91	112	92	114	93	112	112	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Coscinodiscus	Odontella	Nitzschia	Biddulphia	Nitzschia	Biddulphia	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	APHA (24th Ed. 2023)10200A-G
			Diploneis	Rhizosolenia	Diploneis	Rhizosolenia	Pinnularia	Rhizosolenia	Surirella	Pinnularia	Surirella	Pinnularia	Biddulphia	Pinnularia	
			Rhizosolenia	Coscinodiscus	Rhizosolenia	Coscinodiscus	Rhizosolenia	Coscinodiscus	Navicula	Thalassiothrix	Navicula	Thalassiothrix	Navicula	Thalassiothrix	
			Dinophysis	Grammatophora	Dinophysis	Grammatophora	Dinophysis	Grammatophora	Thalassiosira	Grammatophora	Nitzschia	Grammatophora	Nitzschia	Grammatophora	
			Thalassionema	Thalassiosira	Biddulphia	Navicula	Biddulphia	Navicula	Skeletonema	Ceratium	Skeletonema	Ceratium	Skeletonema	Ceratium	

B			Zooplankton											
1	Abundance(Population)	noX103/100 m3	66	65	64	66	68	67						APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		<i>Crustacean Larvae</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>						
			<i>Egg(Fish and Shrimps)</i>	<i>Pinnularia</i>	<i>Pinnularia</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>						
			<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>						
			<i>Crustacean</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>						
			<i>Bivalve Larvae</i>	<i>Thalassionema</i>	<i>Thalassionema</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>						
3	Total Biomass	ml/100 m ³	13.64	13.65	13.64	13.66	13.67	13.67						

Continue...

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO	TEST PARAMETERS	UNIT	April-24		May-24		June-24		July-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
C	Microbiological														
1	Total Bacterial Count	CFU/ml	100		102		104		106		108		110		APHA 24 th Ed.2023,9215-C
2	Total Coliform	/100ml	12		10		11		12		14		13		APHA 24 th Ed.2023,9222-B
3	Ecoli	/100ml	10		12		9		8		7		8		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24 th Ed.2023,9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

RESULTS OF SEDIMENT ANALYSIS [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
1.	Organic Matter	%	0.43	0.46	0.44	0.48	0.41	0.44	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	558.4	551.2	558.6	542.2	510.5	524.2	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.09	4.05	4.08	3.98	3.82	3.88	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	138.4	132.2	136.4	144.2	120.8	128.7	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	594.6	580.4	574.2	550.6	610.2	624.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.12	4.08	3.98	3.86	3.94	3.86	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	42.06	41.25	41.36	42.35	48.65	44.62	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	42.86	41.94	42.28	43.25	51.25	48.96	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	122.4	120.2	120.84	116.5	124.6	120.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.41	2.36	2.48	2.41	2.31	2.22	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method):2007

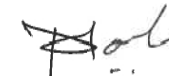
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RESULTS OF SEDIMENT ANALYSIS [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
D	Benthic Organisms								
1	Macrobenthos	--	<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	APHA (24th Ed. 2023)10500
			<i>Polychates</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	
			<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Amphipods</i>	<i>Gastropods</i>	<i>Gastropods</i>	
			<i>Amphipods</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Polychates</i>	
2	MeioBenthos	--	<i>Herpectacoids</i>	<i>Gastropods</i>	<i>Herpectacoids</i>	<i>Turbellarians</i>	<i>Turbellarians</i>	<i>Turbellarians</i>	
			<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	
3	Population	no/m ²	364	366	368	367	368	367	



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RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.18	7.98	8.06	7.86	8.12	7.94	8.05	7.86	7.96	7.84	8.06	7.94	IS 3025(Part 11):2022
2.	Temperature	°C	29.8	29.7	30.4	30.3	30.5	30.4	30.2	30.1	30.1	30	29.8	29.7	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	142	118	136	104	142	122	118	96	94	76	114	88	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL(M DL:1.0)	3.2	BDL(M DL:1.0)	2.8	BDL(M DL:1.0)	2.5	BDL(M DL:1.0)	2.6	BDL(M DL:1.0)	2.8	BDL(M DL:1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.12	5.82	6.02	5.67	5.93	5.58	6.22	6.03	6.4	6.1	6.49	6.2	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	36.38	37.13	36.44	37.42	36.35	37.36	35.94	36.84	35.69	36.72	35.59	36.78	By Calculation
7.	Oil & Grease	mg/L	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.39	3.23	3.71	3.55	3.87	3.55	3.39	3.23	2.42	2.1	2.49	2.15	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.5	0.478	0.543	0.522	0.5	0.456	0.478	0.435	0.239	0.196	0.259	0.13	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	4.27	4.16	4.48	4.43	4.32	4.27	3.74	3.69	4.11	4.014	2.28	1.81	APHA 24th Ed.2023,4500-NH3 B
11.	Phosphates as PO ₄	μmol/L	1.68	1.47	1.47	1.37	1.26	1.16	1.16	1.05	1.05	BDL(M DL:0.4)	1.16	1.05	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	8.16	7.868	8.733	8.502	8.69	8.276	7.608	7.355	6.769	6.31	5.029	4.09	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36240	37310	36280	37340	36110	37140	35860	36920	35810	36860	35860	36740	IS 3025(Part 16):2023
15.	COD	mg/L	19.9	7.9	32.19	16.1	27.9	12	20.1	8	24	12	28.1	16.1	IS 3025(Part 58):2023

RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A	Phytoplankton														
1.	Chlorophyll	mg/m³	2.98	2.69	2.97	2.64	2.96	2.63	2.95	2.66	2.98	2.67	2.99	2.68	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.09	2.06	2.08	2.07	2.05	2.05	2.06	2.06	2.08	2.05	2.06	2.04	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	95	147	97	146	94	148	95	147	93	148	94	147	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Thalassiothrix	Pinnularia	Thalassiothrix	Pinnularia	Dinophysis	Pinnularia	Navicula	Thalassiothrix	Surirella	Thalassiothrix	Surirella	Thalassiothrix	APHA (24th Ed. 2023)10200A-G
			Surirella	Biddulphia	Surirella	Biddulphia	Surirella	Biddulphia	Skeletonema	Surirella	Pinnularia	Surirella	Pinnularia	Surirella	
			Navicula	Navicula	Navicula	Navicula	Nitzschia	Navicula	Rhizosolenia	Navicula	Rhizosolenia	Navicula	Melosira	Navicula	
			Thalassiosira	Rhizosolenia	Cyclotella	Rhizosolenia	Cyclotella	Rhizosolenia	Dinophysis	Thalassiosira	Dinophysis	Thallasiosira	Dinophysis	Thallasiosira	
			Skeletonema	Skeletonema	Skeletonema	Thalassiosira	Skeletonema	Thalassiosira	Thalassionema	Skeletonema	Thalassionema	Skeletonema	Thalassionema	Skeletonema	

B			Zooplankton												APHA (24rd Ed. 2023)10200 G
1	Abundance (Population)	noX10 ³ / 100 m ³	42	44	43	42	43	42	43	42	43	42	43	42	
2	Name of Group Number and name of group species of each group		<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	
			<i>Copepods</i>	<i>Oikoplura</i>	<i>Nitzschia</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	
			<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	
			<i>Crustacean</i>	<i>Crustacean</i>	<i>Pinnularia</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Copepods nauplii</i>	
			<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	
3	Total Biomass	ml/100 m ³	15.74	15.7	15.25	15.5	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	

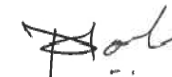
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RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
C			Microbiological												
1	Total Bacterial Count	CFU/ml	110		114		116		118		120		122		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	32		34		33		34		35		36		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	13		16		14		13		14		12		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.48	0.44	0.49	0.46	0.52	0.48	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	574.2	564.8	562.2	550.2	590.5	582.1	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.12	4.06	4.11	4.02	3.83	3.84	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	151.4	154.2	148.9	135.4	146.2	152.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	659	668	672.2	640.5	710.2	685.4	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.09	4.02	4.11	4.02	4.16	4.02	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	43.21	44.13	44.28	39.82	42.44	44.31	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	43.05	42.64	42.86	41.25	48.95	46.36	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	155.4	146.5	145.6	136.4	142.4	135.4	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.33	2.13	1.96	2.05	2.11	2.04	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

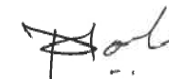
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RESULTS OF SEDIMENT ANALYSIS [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	<i>Decapods Larvae</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	APHA (24th Ed. 2023)10500
			<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Gastropods</i>	<i>Gastropods</i>	<i>Gastropods</i>	
			<i>Amphipods</i>	<i>Amphipods</i>	<i>Gastropods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	
			<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Amphipods</i>	<i>Amphipods</i>	
2	MeioBenthos	--	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Decapods Larvae</i>	<i>Herpectacoids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	
			<i>Herpectacoids</i>	<i>Herpectacoids</i>	<i>Herpectacoids</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Polychates</i>	
3	Population	no/m ²	305	296	307	306	303	301	



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RESULTS OF MARINE WATER [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.22	8.1	8.14	8.06	8.18	8.08	8.07	7.91	8.11	7.89	8.14	7.93	IS 3025(Part 11):2022
2.	Temperature	°C	29.9	29.8	30.5	30.4	30.4	30.3	30.2	30.1	30.1	30	29.9	29.8	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	136	112	142	116	136	116	128	118	112	94	106	82	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3	BDL(MD L:1.0)	2.8	BDL(MD L:1.0)	2.9	BDL(MD L:1.0)	2.4	BDL(MD L:1.0)	2.8	BDL(MD L:1.0)	3.1	BDL(MD L:1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	5.92	5.72	5.82	5.57	5.73	5.48	6.32	6.22	6.49	6.3	6.59	6.4	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	36.58	37.28	36.64	37.44	36.55	37.38	36.24	37.21	35.96	36.88	35.88	36.74	By Calculation
7.	Oil & Grease	mg/L	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.23	2.9	3.87	3.55	3.23	2.9	3.06	2.9	2.26	1.94	3.23	2.59	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.435	0.413	0.478	0.456	0.522	0.5	0.435	0.413	0.304	0.261	0.413	0.379	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	4.37	4.22	4.498	4.32	4.22	4.16	3.64	3.59	3.95	3.85	3.66	2.93	APHA 24th Ed.2023,4500-NH3 B
11.	Phosphates as PO ₄	μmol/L	1.37	1.16	1.26	1.05	1.37	1.26	1.26	1.05	1.37	1.16	1.05	BDL(MD L:0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	8.035	7.533	8.846	8.326	7.972	7.56	7.135	6.903	6.514	6.051	7.303	5.899	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36246	37250	36270	37310	36190	37240	35560	36770	35090	36680	35120	36550	IS 3025(Part 16):2023
15.	COD	mg/L	15.9	7.9	28.17	16.1	23.9	12	12	BDL(MD L:2.0)	16	4	20.1	8	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	2.47	2.47	2.44	2.48	2.42	2.44	2.43	2.46	2.42	2.47	2.41	2.46	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	1.66	1.47	1.65	1.42	1.67	1.43	1.68	1.44	1.67	1.42	1.68	1.41	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	140	98	142	97	146	96	148	97	150	98	154	99	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	<i>Pinnularia</i>	<i>Coscino discus</i>	<i>Pinnularia</i>	<i>Coscino discus</i>	<i>Pinnularia</i>	<i>Coscino discus</i>	<i>Melosira</i>	<i>Cyclotella</i>	<i>Melosira</i>	<i>Cyclotella</i>	<i>Melosira</i>	<i>Cyclotella</i>	APHA (24th Ed. 2023)10200A-G
			<i>Biddulphia</i>	<i>Pinnularia</i>	<i>Biddulphia</i>	<i>Pinnularia</i>	<i>Biddulphia</i>	<i>Pinnularia</i>	<i>Pinnularia</i>	<i>Pinnularia</i>	<i>Pinnularia</i>	<i>Pinnularia</i>	<i>Pinnularia</i>	<i>Pinnularia</i>	
			<i>Navicula</i>	<i>Rhizosolenia</i>	<i>Navicula</i>	<i>Rhizosolenia</i>	<i>Navicula</i>	<i>Rhizosolenia</i>	<i>Skeletonema</i>	<i>Skeletonema</i>	<i>Rhizosolenia</i>	<i>Skeletonema</i>	<i>Rhizosolenia</i>	<i>Skeletonema</i>	
			<i>Thalassiosira</i>	<i>Dinophysis</i>	<i>Thalassiosira</i>	<i>Dinophysis</i>	<i>Thalassiosira</i>	<i>Dinophysis</i>	<i>Thalassiosira</i>	<i>Thalassiosira</i>	<i>Thalassiosira</i>	<i>Thalassiosira</i>	<i>Thalassiosira</i>	<i>Thalassiosira</i>	
			<i>Skeletonema</i>	<i>Thalassionema</i>	<i>Skeletonema</i>	<i>Thalassionema</i>	<i>Skeletonema</i>	<i>Thalassionema</i>	<i>Thalassionema</i>	<i>Thalassionema</i>	<i>Thalassionema</i>	<i>Thalassionema</i>	<i>Thalassionema</i>	<i>Thalassionema</i>	

B			Zooplankton						APHA (24rd Ed. 2023)10200 G
1	Abundance (Populati on)	noX10 3/ 100 m3	40	41	40	43	45	44	
2	Name of Group Number and name of group species of each group		Copepods	Copepods	Rhizosolenia	Crustacean	Crustacean	Crustacean	
			Copepods nauplii	Copepods nauplii	Crustacean Larvae	Copepods nauplii	Copepods nauplii	Copepods nauplii	
			Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	
			Crustacean	Pinnularia	Oikoplura	Crustacean	Crustacean	Egg(Fish and Shrimps)	
			Bivalve Larvae	Bivalve Larvae	Thalassionema	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/10 0 m³	14.48	15.5	15.4	15.6	15.5	15.5	

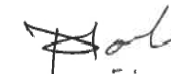
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RESULTS OF MARINE WATER [M3 EAST OF BOCHASLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTOM	SURFACE	BOTTO M	SURFACE	BOTTO M			
C			Microbiological												
1	Total Bacterial Count	CFU/m l	126		128		130		132		130		132		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100m l	28		27		29		30		31		30		APHA 24thEd.2023, 9222-B
3	E.coli	/100m l	24		23		22		21		22		21		IS :15185:2016
4	Enterococcus	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:200 2
5	Salmonella	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:201 6
6	Shigella	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M3 EAST OF BOCHASLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
1.	Organic Matter	%	0.42	0.46	0.42	0.48	0.52	0.46	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	618.2	620.5	611.8	618.6	632.4	610.2	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.14	4.36	4.09	4.12	3.94	3.88	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	146.2	154.1	146.5	138.5	124.5	132.4	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	618.9	620.2	608.5	619.2	520.6	538.4	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.09	4.11	4.06	3.98	4.09	4.14	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	44.6	42.5	44.8	41.62	36.8	35.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	42.05	43.11	43.82	45.08	40.95	36.8	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	134.6	142.2	143.8	146.7	124.9	115.8	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.33	2.16	2.22	2.15	1.96	2.05	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

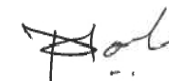
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RESULTS OF SEDIMENT ANALYSIS [M3 EAST OF BOCHASLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	Polychates	Polychates	Amphipods	Gastropods	Gastropods	Decapods Larvae	APHA (24th Ed. 2023)10500
			Gastropods	Gastropods	Gastropods	Isopods	Isopods	Isopods	
			Isopods	Isopods	Isopods	Amphipods	Amphipods	Amphipods	
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	
2	MeioBenthos	--	Herpectacoids	Herpectacoids	Herpectacoids	Polychates	Polychates	Foraminiferan	
			Polychates	Polychates	Polychates	Herpectacoids	Herpectacoids	Herpectacoids	
3	Population	no/m ²	298	296	298	297	295	294	



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RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.19	8.01	8.14	8.04	8.17	8.01	8.12	7.99	8.05	7.92	8.16	7.98	IS 3025(Part 11):2022
2.	Temperature	°C	29.8	29.7	30.4	30.3	30.6	30.5	30.1	30	30	29.9	29.9	29.8	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	138	122	142	128	144	132	132	114	124	108	132	102	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL(MD L:1.0)	3.1	BDL(MD L:1.0)	3.2	BDL(MD L:1.0)	2.6	BDL(MD L:1.0)	2.9	BDL(MD L:1.0)	2.5	BDL(MD L:1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.22	6.12	6.12	5.97	6.03	5.88	6.42	6.32	6.59	6.4	6.69	6.49	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.94	36.97	36.15	37.22	36.18	37.24	35.84	36.92	35.66	36.78	35.74	36.82	By Calculation
7.	Oil & Grease	mg/L	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.39	3.23	3.55	3.39	3.23	2.9	3.06	2.9	2.1	1.77	2.37	2.16	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.435	0.391	0.478	0.5	0.543	0.522	0.391	0.37	0.239	0.174	0.207	0.189	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	4.27	4.16	4.22	4.16	4.32	4.27	3.53	3.48	4.01	3.9	2.75	2.62	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.79	1.68	1.16	1.05	1.26	1.16	1.05	BDL(MD L:0.4)	1.26	1.05	1.16	BDL(MD L:0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	8.095	7.781	8.248	8.05	8.093	7.692	6.981	6.75	6.349	5.844	5.327	4.969	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36380	37320	36410	37360	36320	37180	35730	36810	35650	36780	35710	36790	IS 3025(Part 16):2023
15.	COD	mg/L	23.9	7.9	32.19	20.12	27.9	16	16.1	4	20	8	24.1	12	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A	Phytoplankton														
1.	Chlorophyll	mg/m³	2.36	3.14	2.38	3.17	2.37	3.19	2.35	3.2	2.36	3.1	2.37	3.2	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.69	2	2.66	3	2.59	4	2.6	5	2.7	4	2.5	6	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	154	88	156	86	154	84	155	88	152	89	156	88	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Coscino discus	Surirella	Surirella	Surirella	Coscino discus	Surirella	Thalassiosira	Coscino discus	Thalassiosira	Coscino discus	Thalassiosira	Coscino discus	APHA (24th Ed. 2023)10200A-G
			Diploneis	Biddulphia	Diploneis	Biddulphia	Diploneis	Biddulphia	Melosira	Diploneis	Melosira	Diploneis	Melosira	Diploneis	
			Rhizosolenia	Navicula	Thalassiothrix	Coscino discus	Skeletonema	Coscino discus	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	
			Dinophysis	Thalassiosira	Navicula	Thalassiosira	Navicula	Thalassiosira	Rhizosolenia	Dinophysis	Rhizosolenia	Dinophysis	Rhizosolenia	Dinophysis	
			Thalassionema	Skeletonema	Thalassionema	Skeletonema	Thalassionema	Skeletonema	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	

Zooplankton															
1	Abundance (Population)	noX10 ³ / 100 m ³	37	36	37	36	37	36	37	38	APHA (24rd Ed. 2023)10200 G				
2	Name of Group Number and name of group species of each group		<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>					
			<i>Copepods nauplii</i>	<i>Rhizosolenia</i>	<i>Rhizosolenia</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Egg(Fish and Shrimps)</i>					
			<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Egg(Fish and Shrimps)</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>					
			<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Copepods nauplii</i>					
3	Total Biomass	ml/100 m ³	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>					
			14.22	14.24	14.23	14.26	14.27	14.27	14.27	14.27					

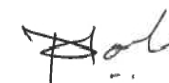
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RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	100		92		94		96		98		100		APHA 24 th Ed.2023,9215-C
2	Total Coliform	/100ml	44		42		44		43		42		44		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	12		11		10		11		10		12		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.51	0.52	0.49	0.41	0.49	0.44	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	619.4	621.4	624.2	612.5	580	560.8	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.14	4.06	3.98	3.88	3.92	3.99	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	144.4	138.9	142.2	132.6	122.6	132.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	611.5	602.5	610.4	589.2	554.6	540.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.06	4.11	4.08	4.11	4.18	4.06	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	51.24	52.2	53.1	55.6	48.6	48.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	48.62	48.44	49.02	52.1	46.9	45.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	134.2	136.2	138.4	148.6	138	144.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.24	2.22	2.31	2.24	2.11	2.16	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

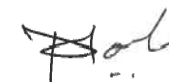
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RESULTS OF SEDIMENT ANALYSIS [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
D	Benthic Organisms								
1	Macrobenthos	--	Foraminiferan	Amphipods	Amphipods	Sipunculids	Sipunculids	Sipunculids	APHA (24th Ed. 2023)10500
			Gastropods	Gastropods	Gastropods	Decapods Larvae	Decapods Larvae	Decapods Larvae	
			Isopods	Isopods	Isopods	Polychates	Polychates	Polychates	
			Sipunculids	Sipunculids	Turbellarians	Isopods	Isopods	Foraminiferan	
2	MeioBenthos	--	Herpectacoids	Herpectacoids	Herpectacoids	Turbellarians	Gastropods	Gastropods	
			Polychates	Turbellarians	Decapods Larvae	Herpectacoids	Herpectacoids	Herpectacoids	
3	Population	no/m ²	322	341	288	304	308	300	



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RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.16	8.06	8.18	8.11	8.21	8.09	8.14	8.04	8.07	7.88	8.18	8.02	IS 3025(Part 11):2022
2.	Temperature	°C	29.8	29.7	30.5	30.4	30.6	30.5	30.2	30.1	30.1	30	30	29.9	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	134	114	128	112	130	108	138	114	132	108	122	104	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.1	BDL(MD L:1.0)	3.3	BDL(MD L:1.0)	3.1	BDL(MD L:1.0)	2.7	BDL(MD L:1.0)	2.8	BDL(MD L:1.0)	2.7	BDL(MD L:1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.22	6.02	6.12	5.87	6.03	5.78	6.22	6.13	6.4	6.2	6.49	6.3	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	36.54	37.1	36.62	37.26	36.55	37.33	35.55	36.28	35.42	36.34	35.31	36.41	By Calculation
7.	Oil & Grease	mg/L	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.87	3.55	4.03	3.87	3.71	3.39	2.9	2.74	2.1	1.94	2.8	2.37	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.456	0.413	0.522	0.5	0.478	0.456	0.435	0.413	0.391	0.348	0.259	0.189	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.95	3.8	4.16	4.11	4.11	4.06	3.64	3.59	3.48	3.42	4.05	3.83	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.9	1.68	1.37	1.26	1.16	1.05	1.05	BDL(MD L:0.4)	1.16	BDL(MD L:0.4)	1.26	1.16	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	8.276	7.763	8.712	8.48	8.298	7.906	6.975	6.743	5.971	5.708	7.109	6.389	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36210	37300	36250	37340	36190	37240	35640	36930	34680	35880	34720	35910	IS 3025(Part 16):2023
15.	COD	mg/L	23.9	11.9	24.14	20.12	19.9	16	4	BDL(MD L:2.0)	8	4	12	8	IS 3025(Part 58):2023

Continue...

RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	3.17	3.15	3.14	3.17	3.11	3.15	3.13	3.16	3.14	3.18	3.12	3.17	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.4	1.25	2.3	1.24	2.2	1.23	2.3	1.24	2.4	1.23	2.3	1.22	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	115	105	118	107	120	106	122	108	123	109	122	110	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Diploneis	Navicula	Diploneis	Navicula	Navicula	Navicula	Navicula	Pinnularia	Navicula	Pinnularia	Navicula	Pinnularia	APHA (24th Ed. 2023)10200A-G
			Rhizosolenia	Skeletonema	Rhizosolenia	Skeletonema	Biddulphia	Skeletonema	Biddulphia	Biddulphia	Biddulphia	Biddulphia	Biddulphia	Rhizosolenia	
			Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Nitzschia	Navicula	Nitzschia	Navicula	Odontella	Dinophysis	
			Cyclotella	Dinophysis	Cyclotella	Biddulphia	Cyclotella	Biddulphia	Cyclotella	Thalassiosira	Cyclotella	Thalassiosira	Cyclotella	Coscinodiscus	
			Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Pleurosigma	Skeletonema	Pleurosigma	Skeletonema	Pleurosigma	Skeletonema	

B			Zooplankton						APHA (24rd Ed. 2023)10200 G
1	Abudance (Populati on)	noX10 3/ 100 m3	48	49	48	50	52	51	
2	Name of Group Number and name of group species of each group		<i>Copepods nauplii</i>	<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	
			<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	
			<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods nauplii</i>	
			<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	
			<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	
3	Total Biomass	ml/100 m³	14.17	14.15	14.12	14.13	14.12	14.12	

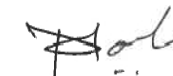
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RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24	TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM		
C			Microbiological											
1	Total Bacterial Count	CFU/ml	130		134		134		136		140		144	APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	27		30		31		32		33		31	APHA 24 th Ed.2023, 9222-B
3	E.coli	/100ml	15		16		18		17		18		17	IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent	IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent	IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent	APHA 24 th Ed.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent	IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
1.	Organic Matter	%	0.48	0.49	0.46	0.42	0.53	0.48	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	728.4	710.5	698.5	650.9	612.1	590.8	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.06	4.08	4.12	3.91	3.88	3.92	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	142.2	162.4	166.2	156.4	142.3	136.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	598.4	602.4	609.8	617.2	570.9	560.4	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.06	4.14	4.09	4.16	4.19	4.11	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	44.36	43.36	43.12	42.19	44.36	45.68	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	45.91	45.28	45.11	45.86	41.25	48.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	121.4	124.4	122.2	120.8	111.6	116.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.09	1.89	1.94	2.08	1.92	2.11	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

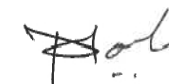
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RESULTS OF SEDIMENT ANALYSIS [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	Amphipods	Amphipods	Amphipods	Isopods	Isopods	Isopods	APHA (24th Ed. 2023)10500
			Polychates	Sipunculids	Polychates	Polychates	Polychates	Gastropods	
			Isopods	Isopods	Isopods	Sipunculids	Sipunculids	Sipunculids	
			Gastropods	Gastropods	Gastropods	Amphipods	Amphipods	Amphipods	
2	MeioBenthos	--	Decapods Larvae	Decapods Larvae	Foraminiferan	Polychates	Herpectacoids	Herpectacoids	
			Herpectacoids	Gastropods	Herpectacoids	Foraminiferan	Foraminiferan	Polychates	
3	Population	no/m ²	306	305	304	305	307	305	



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RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.18	7.98	8.15	8.04	8.19	8.06	8.04	7.88	8.15	7.98	8.16	8.04	IS 3025(Part 11):2022
2.	Temperature	°C	29.9	29.8	30.5	30.4	30.7	30.6	30.2	30.1	30.1	30	29.8	29.7	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	118	96	124	106	120	108	134	116	122	106	104	78	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.1	BDL(MD L:1.0)	3.4	BDL(MD L:1.0)	2.8	BDL(MD L:1.0)	2.5	BDL(MD L:1.0)	3.1	BDL(MD L:1.0)	2.5	BDL(MD L:1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.02	5.92	5.92	5.77	5.83	5.68	6.42	6.22	6.59	6.3	6.69	6.4	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	36.52	37.35	36.58	37.48	36.42	37.21	36.14	36.97	35.97	36.77	35.81	36.58	By Calculation
7.	Oil & Grease	mg/L	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.39	3.23	4.19	4.03	4.03	3.71	3.39	3.23	2.42	2.1	3.66	3.44	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.5	0.456	0.565	0.522	0.564	0.543	0.37	0.348	0.196	0.13	0.413	0.379	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	4.06	3.9	4.16	4.11	4.27	4.22	3.69	3.59	4.22	4.06	3.96	3.62	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	2.21	2	2.11	1.9	1.9	1.68	1.37	1.26	1.47	1.37	1.58	1.47	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.95	7.586	8.915	8.662	8.864	8.473	7.45	7.168	6.836	6.29	8.033	7.439	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36290	37340	36320	37110	36260	37180	35860	36720	35780	36690	35690	36480	IS 3025(Part 16):2023
15.	COD	mg/L	19.9	7.9	36.22	24.14	31.9	19.9	8	4	12	8	16.1	12	IS 3025(Part 58):2023

RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	3.04	2.3	3.06	2.6	3.08	2.5	3.07	2.4	3.08	2.6	3.07	2.6	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.6	1.77	2.7	1.78	2.5	1.77	2.6	1.78	2.7	1.77	2.6	1.78	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	88	122	89	124	87	123	89	122	91	123	92	122	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Nitzschia	Thalassiothrix	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Diploneis	Coscinodiscus	Diploneis	Coscinodiscus	Diploneis	Coscinodiscus	APHA (24th Ed. 2023)10200A-G
			Pinnularia	Surirella	Pinnularia	Surirella	Odontella	Surirella	Rhizosolenia	Diploneis	Rhizosolenia	Diploneis	Rhizosolenia	Diploneis	
			Odontella	Navicula	Dinophysis	Navicula	Dinophysis	Navicula	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	
			Dinophysis	Thalassiosira	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	
			Surirella	Skeletonema	Surirella	Skeletonema	Cyclotella	Skeletonema	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Cyclotella	Thalassionema	
B															
Zooplankton															
1	Abundance (Population)	noX10³/ 100 m³	41	42	42	43	42	43	42	43	42	43	42	43	APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		Nitzschia	Nitzschia	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)		
			Pinnularia	Pinnularia	Coscinodiscus	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	
			Odontella	Odontella	Odontella	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	
			Dinophysis	Dinophysis	Dinophysis	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	
3	Total Biomass	ml/100 m³	Surirella	Surirella	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae		
			16.54	16.55	16.57	16.58	16.59	16.59	16.59	16.59	16.59	16.59	16.59	16.59	

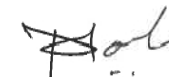
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RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	90		94		94		92		94		92		APHA 24 th Ed.2023,9215-C
2	Total Coliform	/100ml	29		27		25		26		27		26		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	11		13		12		13		14		12		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.14	7.94	8.24	8.11	8.18	8.02	8.1	7.94	8.21	8.06	8.15	8.01	IS 3025(Part 11):2022
2.	Temperature	°C	29.9	29.8	30.5	30.4	30.7	30.6	30.2	30.1	30.1	30	29.9	29.8	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	114	92	118	104	122	110	108	88	124	98	122	94	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL(MD L:1.0)	2.8	BDL(MD L:1.0)	2.9	BDL(MD L:1.0)	2.4	BDL(MD L:1.0)	2.8	BDL(MD L:1.0)	3.2	BDL(MD L:1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.02	5.82	5.92	5.67	5.83	5.58	6.42	6.32	6.59	6.4	6.69	6.49	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	36.42	37.24	35.44	37.37	35.39	37.28	35.44	37.05	35.48	36.82	35.64	36.71	By Calculation
7.	Oil & Grease	mg/L	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.71	3.23	4.03	3.71	4.19	3.87	3.55	3.23	2.74	2.42	3.45	3.02	APHA 24th Ed.2023,4500 NO3-
9.	Nitrite as NO ₂	μmol/L	0.522	0.478	0.565	0.522	0.609	0.543	0.478	0.456	0.239	0.174	0.379	0.328	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	4.16	4.11	4.11	4.06	4.32	4.27	3.59	3.48	4.37	4.22	3.84	3.62	APHA 24th Ed.2023,4500- NH3
11.	Phosphates as PO ₄	μmol/L	2.21	2	1.9	1.79	1.68	1.58	1.26	1.05	1.26	BDL(MD L:0.4)	BDL(MD L:0.4)	BDL(MD L:0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	8.392	7.818	8.705	8.292	9.119	8.683	7.618	7.166	7.349	6.814	7.669	6.968	APHA 24th Ed.2023,4500 NH3 -
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36540	37610	36410	37480	36220	37340	35760	36520	35110	36460	35260	36180	IS 3025(Part 16):2023
15.	COD	mg/L	23.9	15.9	32.19	28.17	23.9	19.9	8	BDL(MD L:2.0)	12	4	16.1	8	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	3.1	3.17	3.2	3.14	3.1	3.12	3.2	3.11	3.3	3.12	3.2	3.11	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	1.8	1.34	1.4	1.38	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.7	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	109	107	112	109	114	107	116	108	117	109	116	108	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Odontella	Cyclotella	Odontella	Cyclotella	Odontella	Cyclotella	Nitzschia	Diploneis	Nitzschia	Diploneis	Nitzschia	Diploneis	APHA (24th Ed. 2023)10200A-G
			Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	Grammatophora	Rhizosolenia	Grammatophora	Rhizosolenia	Grammatophora	Rhizosolenia	
			Coscinodiscus	Skeletonema	Coscinodiscus	Skeletonema	Coscinodiscus	Skeletonema	Diploneis	Nitzschia	Diploneis	Nitzschia	Diploneis	Nitzschia	
			Grammatophora	Thalassiosira	Grammatophora	Thalassiosira	Grammatophora	Thalassiosira	Thalassiothrix	Cyclotella	Thalassiothrix	Cyclotella	Thalassiothrix	Grammatophora	
			Thalassiosira	Thalassionema	Thalassiosira	Thalassionema	Thalassiosira	Thalassionema	Pleurosigma	Pleurosigma	Pleurosigma	Pleurosigma	Pleurosigma	Pleurosigma	
Zooplankton															
1	Abundance (Population)	noX10³/ 100 m³	34		33		31		32		33		31		APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		Coscinodiscus		Coscinodiscus		Odontella		Oikoplura		Oikoplura		Oikoplura		
			Diploneis		Egg(Fish and Shrimps)		Egg(Fish and Shrimps)		Copepods nauplii		Copepods nauplii		Egg(Fish and Shrimps)		
			Rhizosolenia		Rhizosolenia		Rhizosolenia		Crustacean Larvae		Crustacean Larvae		Crustacean Larvae		
			Dinophysis		Bivalve Larvae		Bivalve Larvae		Crustacean		Crustacean		Crustacean		
		Thalassionema		Thalassionema		Thalassionema		Bivalve Larvae		Bivalve Larvae		Bivalve Larvae			
3	Total Biomass	ml/100 m³	14.78		14.77		14.78		14.77		14.78		14.78		

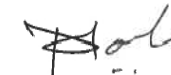
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RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	96	98	96	94	98	90	APHA 24 th Ed.2023,9215-C						
2	Total Coliform	/100ml	14	16	15	14	12	11	APHA 24thEd.2023, 9222-B						
3	E.coli	/100ml	13	14	11	10	11	13	IS :15185:2016						
4	Enterococcus	/100ml	8	7	9	8	6	7	IS:15186:2002						
5	Salmonella	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	IS:15187:2016						
6	Shigella	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	APHA 24thEd.2023, 9260-E						
7	Vibrio	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	IS: 5887 (Part V):1976						



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RESULTS OF SEDIMENT ANALYSIS [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24 SEDIMENT	May-24 SEDIMENT	Jun-24 SEDIMENT	Jul-24 SEDIMENT	Aug-24 SEDIMENT	Sep-24 SEDIMENT	TEST METHOD
1.	Organic Matter	%	0.49	0.42	0.41	0.49	0.53	0.45	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	602	596	602.4	610.5	564.8	574.2	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.98	3.94	3.98	4.05	4.19	4.06	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	122.4	128.6	132.2	134.4	142.3	134.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	618.3	606	608.4	612.6	580.5	590.4	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.11	4.02	4.06	4.11	4.09	4.12	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	42.31	43.22	43.84	44.69	39.55	40.85	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	44.86	44.685	44.23	42.36	51.31	52.31	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	121.2	120.4	122.5	114.6	128.4	122	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.44	2.52	2.43	2.31	2.06	1.92	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

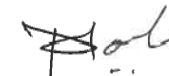
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RESULTS OF SEDIMENT ANALYSIS [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D			Benthic Organisms						
1	Macrobenthos	--	Polychates	Gastropods	Gastropods	Polychates	Polychates	Polychates	APHA (24th Ed. 2023)10500
			Decapods Larvae	Decapods Larvae	Decapods Larvae	Amphipods	Amphipods	Amphipods	
			Isopods	Isopods	Isopods	Isopods	Isopods	Sipunculids	
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Herpectacoids	Herpectacoids	
2	MeioBenthos	--	Herpectacoids	Herpectacoids	Herpectacoids	Foraminiferan	Foraminiferan	Foraminiferan	
			Turbellarians	Turbellarians	Turbellarians	Turbellarians	Turbellarians	Turbellarians	
3	Population	no/m ²	368	367	365	366	367	368	



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RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR. NO.	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.21	8.06	8.24	8.16	8.17	8	8.09	7.89	8.02	7.84	8.11	7.91	IS 3025 (Part 11):2022
2.	Temperature	°C	29.8	29.7	30.5	30.4	30.7	30.6	30.2	30.1	30.1	30	29.8	29.7	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	132	108	124	112	130	118	122	104	138	116	142	128	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL(MD L:1.0)	3.4	BDL(MD L:1.0)	3.1	BDL(MD L:1.0)	2.8	BDL(MD L:1.0)	2.2	BDL(MD L:1.0)	3.4	BDL(MD L:1.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	6.02	5.92	5.92	5.77	5.83	5.68	6.32	6.22	6.49	6.3	6.59	6.4	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	36.34	37.33	36.42	37.51	36.34	37.39	35.82	37.08	35.73	37.12	35.84	36.98	By Calculation
7.	Oil & Grease	mg/L	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MD L:2.0)	IS 3025 (Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.06	2.74	3.39	3.23	3.55	3.39	3.06	2.74	2.42	2.26	3.02	2.59	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.565	0.543	0.652	0.609	0.543	0.522	0.5	0.456	0.413	0.37	0.276	0.215	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	4.22	4.06	4.32	4.22	4.37	4.27	3.48	3.42	4.43	4.27	3.79	3.36	APHA 24th Ed. 2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.9	1.68	1.79	1.68	1.47	1.37	1.16	1.05	1.16	1.05	BDL(MD L:0.4)	BDL(MD L:0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.845	7.343	8.362	8.059	8.463	8.182	7.04	6.616	7.263	6.9	7.086	6.165	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36280	37190	36240	37230	36230	37140	36110	36940	35280	36860	35310	36520	IS 3025(Part 16):2023
15.	COD	mg/L	19.9	11.9	28.17	24.14	19.9	16	8	4	12	8	16.1	12	IS 3025(Part 58):2023

Continue...

RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	2.9	2.8	2.7	2.6	2.6	2.7	2.7	2.8	2.6	2.9	2.9	2.8	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.7	1.6	2.6	1.7	2.7	1.5	2.9	1.6	2.8	1.5	2.7	1.6	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	132	117	129	115	128	116	130	117	133	118	132	117	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Dinophysis	Navicula	Odontella	Cyclotella	Cyclotella	Surirella	Odontella	Nitzschia	Odontella	Nitzschia	Odontella	Nitzschia	APHA (24th Ed. 2023)10200A-G
			Pinnularia	Skeletonema	Rhizosolenia	Pinnularia	Pinnularia	Skeletonema	Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	
			Thalassiothrix	Rhizosolenia	Coscinodiscus	Skeletonema	Thalassiothrix	Rhizosolenia	Coscinodiscus	Odontella	Coscinodiscus	Odontella	Coscinodiscus	Odontella	
			Grammatophora	Dinophysis	Grammatophora	Thalassiosira	Rhizosolenia	Cyclotella	Grammatophora	Dinophysis	Grammatophora	Dinophysis	Pleurosigma	Dinophysis	
			Ceratium	Thalassionema	Thalassiosira	Thalassionema	Ceratium	Thalassionema	Thalassiosira	Surirella	Thalassiosira	Surirella	Thalassiosira	Surirella	

B		Zooplankton							APHA (24rd Ed. 2023)10200 G
1	Abundance (Population)	noX10 ³ / 100 m ³	31	36	35	34	35	36	
2	Name of Group Number and name of group species of each group		<i>Diploneis</i>	<i>Diploneis</i>	<i>Diploneis</i>	<i>Decapoda</i>	<i>Decapoda</i>	<i>Decapoda</i>	
			<i>Rhizosolenia</i>	<i>Rhizosolenia</i>	<i>Rhizosolenia</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Oikoplura</i>	
			<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	
			<i>Thalassiothrix</i>	<i>Coscinodiscus</i>	<i>Coscinodiscus</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Bivalve Larvae</i>	
			<i>Pleurosigma</i>	<i>Pleurosigma</i>	<i>Pleurosigma</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	
3	Total Biomass	ml/100 m ³	15.23	15.22	15.23	15.23	15.23	15.25	

Continue...

RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
C			Microbiological												
1	Total Bacterial Count	CFU/ml	224	230	230	230	234	230	232						APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	42	40	40	40	43	44	43						APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	32	33	33	33	33	32	31						IS :15185:2016
4	Enterococcus	/100ml	18	15	15	15	12	14	13						IS:15186:200 2
5	Salmonella	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent						IS:15187:201 6
6	Shigella	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent						APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent						IS: 5887 (Part V):1976



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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
1.	pH	--	8.18	8.03	8.12	7.94	8.15	8.04	8.07	7.94	8.12	7.88	8.16	7.96	IS 3025 (Part 11):2022
2.	Temperature	°C	29.8	29.7	30.4	30.3	30.6	30.5	30.3	30.2	30.2	30.1	29.9	29.8	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	142	122	130	104	132	112	120	102	110	92	124	88	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.1	BDL(M DL:1.0)	3.3	BDL(M DL:1.0)	3.1	BDL(M DL:1.0)	2.2	BDL(M DL:1.0)	2.8	BDL(M DL:1.0)	3.4	BDL(M DL:1.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	5.92	5.82	5.82	5.67	5.73	5.58	6.42	6.32	6.59	6.4	6.69	6.49	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	36.39	37.44	36.42	37.54	36.12	37.28	35.74	36.91	35.81	36.87	35.67	26.76	By Calculation
7.	Oil & Grease	mg/L	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	BDL(M DL:2.0)	IS 3025 (Part 39):2021
8.	Nitrate as NO ₃	μmol/ L	3.06	2.74	3.23	3.06	3.39	3.23	3.23	2.9	2.1	1.77	2.67	2.54	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/ L	0.543	0.5	0.652	0.565	0.609	0.565	0.522	0.478	0.435	0.371	0.414	0.362	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/ L	4.43	4.22	4.37	4.27	4.43	4.32	3.74	3.64	4.16	3.95	3.4	3.32	APHA 24th Ed. 2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/ L	2	1.79	2.11	1.9	1.9	1.68	1.37	1.26	1.26	1.16	1.16	1.05	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/ L	8.033	7.46	8.252	7.895	8.429	8.115	7.492	7.018	6.695	6.091	6.484	6.222	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	36370	37410	36230	37140	36190	37110	35720	36410	34680	35370	34410	35420	IS 3025(Part 16):2023
15.	COD	mg/L	11.9	7.9	24.14	20.123	16	12	12	8	16	12	20.1	16.1	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

SR. NO.	TEST PARAMETERS	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	2.7	2.8	2.6	2.7	2.5	2.5	2.3	2.6	2.2	2.5	2.1	2.4	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	1.16	1.45	1.17	1.47	1.18	1.48	1.17	1.46	1.18	1.47	1.17	1.46	
3.	Cell Count	No. x 10³/L	75	122	77	126	75	127	77	130	78	133	77	132	
4	Name of Group Number and name of group species of each group	--	Ceratiu m	Melosir a	Ceratiu m	Rhizosol enia	Surirell a	Rhizosol enia	Skeleto nema	Odentel la	Skeleto nema	Odentel la	Skeleto nema	Odentel la	
Pinnula ria			Dinoph ysis	Pinnula ria	Dinoph ysis	Pinnula ria	Dinoph ysis	Gramm atophor a	Rhizosol enia	Gramm atophor a	Rhizosol enia	Gramm atophor a	Rhizosol enia		
Odontel la			Skeleto nema	Odontel la	Skeleto nema	Gramm atophor a	Skeleto nema	Nitzschi a	Coscino discus	Nitzschi a	Coscino discus	Nitzschi a	Coscino discus		
Thalassi othrix			Thallass iosira	Thalassi othrix	Thallass iosira	Thalassi othrix	Thallass iosira	Thalassi othrix	Gramm atophor a	Thalassi othrix	Gramm atophor a	Coscino discus	Pinnula ria		
Thallass iosira			Thalassi onema	Thallass iosira	Melosir a	Rhizosol enia	Melosir a	Pleurosi gma	Thallass iosira	Pleurosi gma	Thallass iosira	Pleurosi gma	Thallass iosira		
B Zooplankton															
1	Abudance (Populati on)	noX103/ 100 m3	66		37		68		67		67		70		APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		Nitzschia		Nitzschia		Nitzschia		Copepods		Copepods		Copepods		
			Grammatophora		Grammatophora		Grammatophora		Oikoplura		Oikoplura		Oikoplura		
			Diploneis		Diploneis		Egg(Fish and Shrimps)		Crustacean Larvae		Crustacean Larvae		Crustacean Larvae		
			Thalassiothrix		Thalassiothrix		Thalassiothrix		Crustacean		Crustacean		Crustacean		
	Pleurosigma		Pleurosigma		Pleurosigma		Bivalve Larvae		Bivalve Larvae		Egg(Fish and Shrimps)				
3	Total Biomass	ml/100 m³	14.56		14.55		14.54		14.57		14.54		14.57		

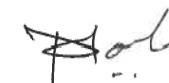
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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

SR. NO	TEST PARAMETER S	UNIT	Apr-24		May-24		Jun-24		Jul-24		Aug-24		Sep-24		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
C			Microbiological												
1	Total Bacterial Count	CFU/ml	248		250		254		256		250		254		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	50		52		50		52		51		50		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	40		41		44		43		45		44		IS :15185:2016
4	Enterococcus	/100ml	31		30		32		31		32		30		IS:15186:200 2
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:201 6
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

RESULTS OF ETP OUTLET WATER

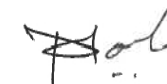
SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24		
			27-04-2024	25-05-2024	27-06-2024	24-07-2024	06-08-2024	20-09-2024		
1.	Colour	Pt. Co. Scale	40	40	40	60	50	50	100	IS 3025(Part 4):2021
2.	pH @ 27 ° C	--	7.35	6.97	7.11	6.96	6.87	7.51	6.5 to 8.5	IS 3025(Part 11):2022
3.	Temperature	°C	30.5	31.5	31	30	29.5	30	40	IS 3025(Part 9):2023
4.	Total Suspended Solid	mg/L	34	28	22	24	32	46	100	APHA 24th Ed.2023,2540 –D
5.	Total Dissolved Solids	mg/L	1242	1318	940	720	636	629	2100	APHA 24th Ed.2023,2540- C
6.	COD	mg/L	86	88	92	86.2	82.1	91.2	100	IS 3025(Part 58):2023
7.	BOD (3 days at 27 °C)	mg/L	24.9	27	25.3	24	24	27	30	IS 3025(Part 44):2023
8.	Chloride (as Cl) ⁻	mg/L	486	502.4	437.1	400	234	247.7	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(Part 39):2021
10.	Sulphate (as SO ₄)	mg/L	42	48	44	42	36.8	34	1000	IS 3025(Part 24):2022
11.	Ammonical Nitrogen	mg/L	30.2	34.4	32.5	30.2	15.8	28.5	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):2022
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):1992
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 24th Ed.2023,3111-B

Continue...

SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24		
			27-04-2024	25-05-2024	27-06-2024	24-07-2024	06-08-2024	20-09-2024		
15.	Sulphide as S	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	2	APHA 24th Ed.2023,4500 S ² F
16.	Cadmium as Cd	mg/L	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	0.04	0.017	BDL(MDL:0.003)	2	APHA 24th Ed.2023,3111-B
17.	Fluoride as F	mg/L	1.8	1.64	1.58	1.74	1.88	1.84	2	APHA 24th Ed.2023,4500 F, D
18.	Residual Chlorine	mg/L	0.66	0.74	0.68	0.74	0.68	BDL(MDL:0.1)	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
19.	Percent Sodium	%	46.77	47.38	47.39	47.64	47.25	46.91	60	By Calculation
20.	Sodium Absorption ratio	--	3.06	3.3	3.4	3.3	2.5	3.1	26	By Calculation



Mr. Nilesh Patel
Sr. Chemist

Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	01-04-2024	79.75	31.28	27.86	31.25	1.1	--	NOT DETECTED
2.	04-04-2024	77.45	30.83	26.91	30.26	1.12	5.59	NOT DETECTED
3.	08-04-2024	81.36	33.46	29.75	32.37	1.16	5.62	NOT DETECTED
4.	11-04-2024	84.91	36.13	32.32	35.92	1.19	5.85	NOT DETECTED
5.	15-04-2024	82.37	32.86	29.4	32.53	1.15	5.76	NOT DETECTED
6.	18-04-2024	80.95	31.81	27.65	31.27	1.12	5.54	NOT DETECTED
7.	22-04-2024	82.52	33.37	30.48	34.64	1.14	5.68	NOT DETECTED
8.	25-04-2024	85.1	35.05	31.11	35.63	1.17	5.81	NOT DETECTED
9.	29-04-2024	83.26	33.49	30.64	34.13	1.12	5.7	NOT DETECTED
10.	02-05-2024	82.37	34.10	29.42	33.19	1.14	5.82	NOT DETECTED
11.	06-05-2024	84.13	36.72	31.64	35.32	1.15	5.89	NOT DETECTED
12.	09-05-2024	80.84	33.87	28.93	31.78	1.12	5.73	NOT DETECTED
13.	13-05-2024	78.46	32.87	29.98	33.52	1.10	5.61	NOT DETECTED
14.	16-05-2024	81.25	35.38	32.31	36.74	1.13	5.73	NOT DETECTED
15.	20-05-2024	79.63	33.89	30.13	34.62	1.12	5.56	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	23-05-2024	76.47	31.32	27.53	31.29	1.10	5.46	NOT DETECTED
17.	27-05-2024	78.52	34.54	28.41	32.48	1.13	5.37	NOT DETECTED
18.	30-05-2024	81.13	35.81	30.37	34.35	1.15	5.52	NOT DETECTED
19.	03-06-2024	80.62	33.35	28.84	31.98	1.12	5.57	NOT DETECTED
20.	06-06-2024	78.63	31.29	26.54	30.28	1.13	5.41	NOT DETECTED
21.	10-06-2024	81.12	33.27	29.17	32.48	1.16	5.69	NOT DETECTED
22.	13-06-2024	78.92	30.71	27.24	31.63	1.14	5.45	NOT DETECTED
23.	17-06-2024	74.39	28.16	26.19	30.84	1.1	5.32	NOT DETECTED
24.	20-06-2024	76.26	29.43	28.83	31.35	1.13	5.25	NOT DETECTED
25.	24-06-2024	63.37	26.71	25.69	28.14	1	4.74	NOT DETECTED
26.	27-06-2024	58.42	24.84	23.96	26.84	0.87	4.55	NOT DETECTED
27.	01-07-2024	60.75	26.86	24.62	27.46	1	--	NOT DETECTED
28.	04-07-2024	57.48	25.62	22.75	25.37	0.95	4.68	NOT DETECTED
29.	08-07-2024	63.48	27.19	24.59	28.11	1.02	4.78	NOT DETECTED
30.	11-07-2024	67.51	29.38	26.42	29.64	1.07	4.65	NOT DETECTED
31.	15-07-2024	64.38	26.51	24.96	27.15	1.03	4.73	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	18-07-2024	68.73	29.31	26.18	28.97	1.1	4.86	NOT DETECTED
33.	22-07-2024	65.41	27.54	25.38	28.26	1.12	4.79	NOT DETECTED
34.	25-07-2024	63.27	25.48	23.64	26.48	1.08	4.72	NOT DETECTED
35.	29-07-2024	59.83	24.28	22.69	25.13	1.02	4.61	NOT DETECTED
36.	01-08-2024	57.27	24.84	22.16	25.53	0.98	4.24	NOT DETECTED
37.	05-08-2024	61.29	26.58	23.81	26.48	1.04	4.41	NOT DETECTED
38.	08-08-2024	63.18	29.63	25.11	28.37	1.1	4.58	NOT DETECTED
39.	12-08-2024	60.72	27.37	22.84	25.42	1.06	4.38	NOT DETECTED
40.	15-08-2024	62.39	28.15	23.21	26.84	1.08	4.49	NOT DETECTED
41.	19-08-2024	64.15	29.52	25.37	28.15	1.12	4.64	NOT DETECTED
42.	22-08-2024	62.19	28.31	23.68	26.49	1.1	4.73	NOT DETECTED
43.	26-08-2024	58.37	25.48	22.57	25.16	1.05	4.51	NOT DETECTED
44.	29-08-2024	61.29	26.38	24.63	27.35	1.08	4.62	NOT DETECTED
45.	02-09-2024	60.17	25.52	21.92	24.63	1.02	4.42	NOT DETECTED
46.	05-09-2024	62.38	26.19	22.74	25.16	1.05	4.6	NOT DETECTED
47.	09-09-2024	65.13	28.36	24.82	27.48	1.08	4.66	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	12-09-2024	63.29	25.91	23.69	26.41	1.04	4.56	NOT DETECTED
49.	16-09-2024	65.49	27.47	25.12	28.74	1.10	4.62	NOT DETECTED
50.	19-09-2024	68.42	29.3	25.81	27.98	1.14	4.71	NOT DETECTED
51.	23-09-2024	66.1	27.85	24.39	27.63	1.11	4.64	NOT DETECTED
52.	26-09-2024	62.37	24.41	22.35	25.68	1.06	4.49	NOT DETECTED
53.	30-09-2024	65.18	25.37	23.7	26.45	1.1	4.58	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		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	01-04-2024	79.67	30.14	26.39	30.11	0.82	--	NOT DETECTED
2.	04-04-2024	81.38	32.74	29.51	33.46	0.88	3.74	NOT DETECTED
3.	08-04-2024	77.49	30.13	25.38	30.27	0.85	3.68	NOT DETECTED
4.	11-04-2024	79.13	31.82	27.91	32.47	0.82	3.53	NOT DETECTED
5.	15-04-2024	75.37	27.42	24.89	30.11	0.77	3.38	NOT DETECTED
6.	18-04-2024	77.91	29.73	25.52	29.28	0.86	3.49	NOT DETECTED
7.	22-04-2024	80.15	32.49	29.73	33.42	0.83	3.71	NOT DETECTED
8.	25-04-2024	75.24	28.47	26.93	30.17	0.79	3.56	NOT DETECTED
9.	29-04-2024	78.42	29.85	28.12	32.73	0.78	3.67	NOT DETECTED
10.	02-05-2024	78.72	28.84	25.91	29.18	0.78	3.58	NOT DETECTED
11.	06-05-2024	75.92	26.79	24.43	28.73	0.75	3.49	NOT DETECTED
12.	09-05-2024	79.63	29.26	26.8	30.02	0.85	3.66	NOT DETECTED
13.	13-05-2024	81.27	31.36	28.75	31.97	0.84	3.81	NOT DETECTED
14.	16-05-2024	78.64	29.74	27.45	31.12	0.78	3.61	NOT DETECTED
15.	20-05-2024	75.64	27.46	25.61	29.53	0.75	3.58	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	23-05-2024	73.4	26.99	24.94	27.88	0.73	3.51	NOT DETECTED
17.	27-05-2024	76.62	29.17	27.32	31.42	0.80	3.67	NOT DETECTED
18.	30-05-2024	74.96	27.84	25.63	29.85	0.83	3.57	NOT DETECTED
19.	03-06-2024	79.14	29.73	25.94	28.13	0.71	3.62	NOT DETECTED
20.	06-06-2024	77.38	26.85	24.58	27.63	0.69	3.54	NOT DETECTED
21.	10-06-2024	80.62	29.16	25.72	28.11	0.73	3.6	NOT DETECTED
22.	13-06-2024	76.37	27.48	24.94	27.27	0.75	3.43	NOT DETECTED
23.	17-06-2024	73.29	25.85	23.84	26.05	0.68	3.35	NOT DETECTED
24.	20-06-2024	69.52	24.87	22.58	25.71	0.73	3.27	NOT DETECTED
25.	24-06-2024	48.42	20.73	18.68	22.31	ND	2.67	NOT DETECTED
26.	27-06-2024	42.83	18.65	17.12	20.64	ND	2.42	NOT DETECTED
27.	01-07-2024	45.38	17.69	15.44	18.61	0.31	--	NOT DETECTED
28.	04-07-2024	48.63	19.47	17.15	20.57	0.37	2.65	NOT DETECTED
29.	08-07-2024	55.14	22.72	19.46	23.1	0.45	2.71	NOT DETECTED
30.	11-07-2024	58.27	24.15	20.84	23.79	0.51	2.77	NOT DETECTED
31.	15-07-2024	53.84	21.29	17.35	20.45	0.46	2.85	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	18-07-2024	60.15	24.59	19.72	22.31	0.55	2.71	NOT DETECTED
33.	22-07-2024	57.51	23.43	17.1	20.84	0.49	2.65	NOT DETECTED
34.	25-07-2024	54.19	20.81	14.89	17.57	0.42	2.59	NOT DETECTED
35.	29-07-2024	48.76	18.93	13.47	16.39	0.28	2.55	NOT DETECTED
36.	01-08-2024	49.81	19.1	14.82	18.31	0.4	2.51	NOT DETECTED
37.	05-08-2024	52.37	19.86	15.71	19.53	0.45	2.58	NOT DETECTED
38.	08-08-2024	55.71	20.42	16.29	20.81	0.42	2.64	NOT DETECTED
39.	12-08-2024	58.74	21.79	17.63	22.1	0.48	2.76	NOT DETECTED
40.	15-08-2024	53.29	20.63	15.24	19.21	0.41	2.61	NOT DETECTED
41.	19-08-2024	56.48	21.24	16.1	20.64	0.45	2.65	NOT DETECTED
42.	22-08-2024	59.63	22.14	17.71	22.15	0.48	2.72	NOT DETECTED
43.	26-08-2024	57.14	21.28	16.32	20.61	0.46	2.67	NOT DETECTED
44.	29-08-2024	54.59	20.81	15.39	19.3	0.43	2.59	NOT DETECTED
45.	02-09-2024	47.15	18.84	14.13	18.26	0.42	2.56	NOT DETECTED
46.	05-09-2024	50.18	19.24	15.25	19.42	0.45	2.63	NOT DETECTED
47.	09-09-2024	48.74	18.92	14.73	18.68	0.43	2.66	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	12-09-2024	52.38	19.65	15.69	19.36	0.48	2.59	NOT DETECTED
49.	16-09-2024	55.38	20.14	15.89	20.05	0.5	2.67	NOT DETECTED
50.	19-09-2024	57.28	21.75	16.29	21.14	0.51	2.72	NOT DETECTED
51.	23-09-2024	54.39	20.43	15.36	19.74	0.48	2.60	NOT DETECTED
52.	26-09-2024	50.82	19.53	14.48	18.63	0.44	2.54	NOT DETECTED
53.	30-09-2024	53.37	20.42	15.1	18.86	0.47	2.59	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		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	01-04-2024	85.53	36.13	33.57	38.91	1.15	--	NOT DETECTED
2.	04-04-2024	82.38	34.62	30.98	35.64	1.12	4.71	NOT DETECTED
3.	08-04-2024	80.93	32.48	29.18	33.45	1.14	4.53	NOT DETECTED
4.	11-04-2024	83.47	35.63	33.45	37.61	1.17	4.69	NOT DETECTED
5.	15-04-2024	78.39	30.16	30.74	35.2	1.10	4.47	NOT DETECTED
6.	18-04-2024	80.63	32.7	28.46	33.29	1.13	4.61	NOT DETECTED
7.	22-04-2024	76.36	29.95	31.29	35.42	1.12	4.5	NOT DETECTED
8.	25-04-2024	82.35	31.56	33.71	38.81	1.15	4.73	NOT DETECTED
9.	29-04-2024	79.24	33.72	30.37	34.78	1.11	4.57	NOT DETECTED
10.	02-05-2024	80.26	32.91	30.18	34.51	1.12	4.48	NOT DETECTED
11.	06-05-2024	82.75	34.2	32.1	36.27	1.14	4.61	NOT DETECTED
12.	09-05-2024	79.64	30.73	29.38	32.63	1.15	4.42	NOT DETECTED
13.	13-05-2024	76.39	28.98	28.61	31.85	1.13	4.36	NOT DETECTED
14.	16-05-2024	78.63	30.73	29.86	33.41	1.12	4.45	NOT DETECTED
15.	20-05-2024	81.24	33.17	31.28	34.62	1.13	4.59	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	23-05-2024	79.84	30.82	28.41	32.55	1.11	4.41	NOT DETECTED
17.	27-05-2024	76.54	29.71	27.94	31.28	1.1	4.29	NOT DETECTED
18.	30-05-2024	78.16	30.47	29.74	33.46	1.14	4.38	NOT DETECTED
19.	03-06-2024	78.72	30.25	27.64	31.38	1.11	4.39	NOT DETECTED
20.	06-06-2024	80.16	31.28	28.73	32.17	1.13	4.53	NOT DETECTED
21.	10-06-2024	76.39	28.63	26.37	30.62	1.1	4.42	NOT DETECTED
22.	13-06-2024	79.93	30.12	28.19	32.85	1.12	4.36	NOT DETECTED
23.	17-06-2024	75.59	28.83	25.48	29.16	1.11	4.27	NOT DETECTED
24.	20-06-2024	73.43	27.19	24.81	28.36	1.08	4.1	NOT DETECTED
25.	24-06-2024	56.32	24.75	22.59	25.42	0.74	3.38	NOT DETECTED
26.	27-06-2024	48.64	21.29	20.11	24.05	0.51	3.13	NOT DETECTED
27.	01-07-2024	54.38	23.51	20.83	23.49	0.67	--	NOT DETECTED
28.	04-07-2024	57.69	24.35	23.47	27.15	0.79	3.56	NOT DETECTED
29.	08-07-2024	63.48	26.61	24.06	27.39	0.83	3.61	NOT DETECTED
30.	11-07-2024	66.17	27.42	25.11	28.13	0.89	3.7	NOT DETECTED
31.	15-07-2024	65.49	25.15	24.63	26.96	0.81	3.76	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	18-07-2024	68.58	28.35	25.21	28.74	0.87	3.68	NOT DETECTED
33.	22-07-2024	62.49	24.12	23.47	26.55	0.79	3.59	NOT DETECTED
34.	25-07-2024	58.57	22.75	20.91	24.1	0.74	3.54	NOT DETECTED
35.	29-07-2024	55.69	21.27	18.75	22.46	0.71	3.47	NOT DETECTED
36.	01-08-2024	55.14	22.63	20.45	24.21	0.72	3.41	NOT DETECTED
37.	05-08-2024	60.53	25.17	22.53	26.81	0.75	3.52	NOT DETECTED
38.	08-08-2024	58.28	23.48	21.53	25.48	0.73	3.45	NOT DETECTED
39.	12-08-2024	63.48	25.37	23.1	26.93	0.8	3.62	NOT DETECTED
40.	15-08-2024	65.12	26.91	24.36	28.13	0.85	3.71	NOT DETECTED
41.	19-08-2024	61.29	24.38	22.86	26.42	0.81	3.63	NOT DETECTED
42.	22-08-2024	63.45	25.18	23.41	27.36	0.77	3.69	NOT DETECTED
43.	26-08-2024	59.83	23.15	21.79	25.22	0.74	3.48	NOT DETECTED
44.	29-08-2024	61.27	24.61	23.24	27.46	0.79	3.57	NOT DETECTED
45.	02-09-2024	58.26	23.75	21.38	24.87	0.69	3.6	NOT DETECTED
46.	05-09-2024	55.93	22.59	20.88	24.56	0.64	3.54	NOT DETECTED
47.	09-09-2024	57.94	23.15	21.27	24.98	0.67	3.63	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	12-09-2024	60.38	25.47	22.63	26.14	0.71	3.68	NOT DETECTED
49.	16-09-2024	63.38	25.96	22.78	26.69	0.74	3.74	NOT DETECTED
50.	19-09-2024	66.26	26.75	23.57	27.42	0.76	3.82	NOT DETECTED
51.	23-09-2024	64.39	25.14	22.63	26.46	0.73	3.71	NOT DETECTED
52.	26-09-2024	60.42	22.84	20.74	24.35	0.67	3.64	NOT DETECTED
53.	30-09-2024	62.54	23.67	21.81	24.63	0.71	3.68	NOT DETECTED
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0	---	5.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	01-04-2024	72.38	29.81	23.13	26.79	0.71	--	NOT DETECTED
2.	04-04-2024	70.76	27.54	20.84	24.51	0.63	2.64	NOT DETECTED
3.	08-04-2024	65.24	30.12	21.25	22.94	0.68	2.56	NOT DETECTED
4.	11-04-2024	63.71	28.15	20.86	24.63	0.64	2.39	NOT DETECTED
5.	15-04-2024	68.12	27.36	21.74	23.46	0.67	2.48	NOT DETECTED
6.	18-04-2024	73.31	31.98	23.47	26.48	0.70	2.67	NOT DETECTED
7.	22-04-2024	69.53	29.78	21.47	25.10	0.65	2.55	NOT DETECTED
8.	25-04-2024	75.82	30.85	24.19	27.15	0.62	2.74	NOT DETECTED
9.	29-04-2024	72.46	31.82	21.86	24.35	0.68	2.61	NOT DETECTED
10.	02-05-2024	70.72	30.15	20.77	23.82	0.64	2.52	NOT DETECTED
11.	06-05-2024	73.14	32.10	22.49	25.37	0.69	2.67	NOT DETECTED
12.	09-05-2024	68.47	29.84	20.16	23.47	0.61	2.55	NOT DETECTED
13.	13-05-2024	65.48	27.46	21.73	23.91	0.60	2.46	NOT DETECTED
14.	16-05-2024	67.53	28.61	20.85	23.42	0.67	2.53	NOT DETECTED
15.	20-05-2024	64.29	26.83	19.27	22.11	0.63	2.42	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	23-05-2024	68.42	28.23	21.44	23.40	0.70	2.79	NOT DETECTED
17.	27-05-2024	70.42	31.14	22.91	25.32	0.65	2.58	NOT DETECTED
18.	30-05-2024	72.34	31.93	20.82	23.84	0.68	2.63	NOT DETECTED
19.	03-06-2024	73.27	29.31	20.87	22.48	0.63	2.62	NOT DETECTED
20.	06-06-2024	68.53	27.15	19.74	22.02	0.59	2.55	NOT DETECTED
21.	10-06-2024	72.48	28.16	20.77	23.09	0.63	2.48	NOT DETECTED
22.	13-06-2024	70.12	25.74	19.35	21.28	0.60	2.53	NOT DETECTED
23.	17-06-2024	61.92	24.64	17.79	20.11	0.55	2.40	NOT DETECTED
24.	20-06-2024	63.78	26.13	18.53	20.85	0.63	2.49	NOT DETECTED
25.	24-06-2024	39.26	22.54	15.83	18.42	NOT DETECTED	1.87	NOT DETECTED
26.	27-06-2024	37.91	20.75	13.97	16.20	NOT DETECTED	1.64	NOT DETECTED
27.	01-07-2024	36.49	18.63	12.84	15.36	0.26	--	NOT DETECTED
28.	04-07-2024	40.28	19.87	14.11	17.63	0.29	1.57	NOT DETECTED
29.	08-07-2024	45.81	22.36	16.74	19.25	0.35	1.63	NOT DETECTED
30.	11-07-2024	48.73	24.15	17.59	20.74	0.41	1.82	NOT DETECTED
31.	15-07-2024	43.94	21.82	15.37	18.21	0.39	1.75	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	18-07-2024	52.62	24.03	16.13	19.42	0.44	1.79	NOT DETECTED
33.	22-07-2024	47.49	23.13	14.59	17.84	0.40	1.68	NOT DETECTED
34.	25-07-2024	43.28	20.85	12.71	15.49	0.32	1.62	NOT DETECTED
35.	29-07-2024	39.51	16.94	10.87	13.66	0.24	1.55	NOT DETECTED
36.	01-08-2024	41.11	18.93	13.28	16.42	0.32	1.51	NOT DETECTED
37.	05-08-2024	43.29	19.35	13.74	16.49	0.34	1.58	NOT DETECTED
38.	08-08-2024	41.73	18.83	12.93	15.37	0.31	1.61	NOT DETECTED
39.	12-08-2024	47.52	21.37	14.16	17.10	0.34	1.68	NOT DETECTED
40.	15-08-2024	49.69	22.45	15.26	18.22	0.37	1.72	NOT DETECTED
41.	19-08-2024	47.14	21.43	14.32	17.25	0.35	1.63	NOT DETECTED
42.	22-08-2024	45.28	20.67	13.82	16.74	0.33	1.58	NOT DETECTED
43.	26-08-2024	43.74	20.11	13.32	16.14	0.32	1.49	NOT DETECTED
44.	29-08-2024	47.15	22.32	14.35	17.49	0.35	1.54	NOT DETECTED
45.	02-09-2024	44.39	19.74	14.10	17.35	0.36	1.6	NOT DETECTED
46.	05-09-2024	40.83	18.81	12.94	15.81	0.32	1.53	NOT DETECTED
47.	09-09-2024	42.91	19.46	13.32	16.26	0.33	1.57	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	12-09-2024	44.48	20.31	13.84	16.52	0.36	1.63	NOT DETECTED
49.	16-09-2024	47.30	22.29	14.75	17.47	0.38	1.69	NOT DETECTED
50.	19-09-2024	44.10	21.16	13.68	16.42	0.35	1.75	NOT DETECTED
51.	23-09-2024	46.75	22.36	14.53	17.38	0.37	1.62	NOT DETECTED
52.	26-09-2024	43.47	21.73	12.64	15.16	0.32	1.67	NOT DETECTED
53.	30-09-2024	45.83	22.08	13.75	16.54	0.34	1.71	NOT DETECTED
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0	---	5.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11



Nikunj D. Patel
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	01-04-2024	85.13	30.82	27.35	30.15	0.81	--	NOT DETECTED
2.	04-04-2024	82.39	29.25	25.72	29.13	0.78	4.74	NOT DETECTED
3.	08-04-2024	80.18	27.31	24.86	27.35	0.73	4.61	NOT DETECTED
4.	11-04-2024	77.49	29.16	23.12	26.83	0.75	4.53	NOT DETECTED
5.	15-04-2024	81.93	28.38	24.64	28.02	0.86	4.86	NOT DETECTED
6.	18-04-2024	84.13	29.48	25.81	28.37	0.80	4.93	NOT DETECTED
7.	22-04-2024	87.39	32.15	27.68	30.64	0.85	4.75	NOT DETECTED
8.	25-04-2024	83.57	30.57	24.82	27.91	0.78	4.67	NOT DETECTED
9.	29-04-2024	86.12	32.81	27.14	31.25	0.83	4.81	NOT DETECTED
10.	02-05-2024	83.74	29.83	25.24	29.15	0.79	4.75	NOT DETECTED
11.	06-05-2024	85.19	32.53	27.81	31.11	0.85	4.88	NOT DETECTED
12.	09-05-2024	82.37	30.88	25.37	29.42	0.75	4.81	NOT DETECTED
13.	13-05-2024	79.36	28.64	24.93	28.64	0.73	4.73	NOT DETECTED
14.	16-05-2024	82.38	31.27	26.45	29.71	0.83	4.61	NOT DETECTED
15.	20-05-2024	80.91	30.15	25.19	29.37	0.79	4.70	NOT DETECTED

Continue...

Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	23-05-2024	77.37	28.53	23.75	26.89	0.75	4.63	NOT DETECTED
17.	27-05-2024	79.52	29.75	25.29	28.74	0.81	4.68	NOT DETECTED
18.	30-05-2024	81.27	31.43	28.31	31.74	0.84	4.61	NOT DETECTED
19.	03-06-2024	81.84	30.14	24.26	28.74	0.80	4.67	NOT DETECTED
20.	06-06-2024	78.63	28.58	22.19	26.54	0.77	4.58	NOT DETECTED
21.	10-06-2024	80.27	29.18	22.97	27.15	0.72	4.63	NOT DETECTED
22.	13-06-2024	82.36	30.47	23.65	27.14	0.81	4.75	NOT DETECTED
23.	17-06-2024	76.21	27.63	22.10	26.74	0.70	4.67	NOT DETECTED
24.	20-06-2024	74.39	26.84	21.62	25.36	0.68	4.52	NOT DETECTED
25.	24-06-2024	60.67	23.71	18.64	22.37	0.24	3.65	NOT DETECTED
26.	27-06-2024	56.52	20.85	16.39	19.96	0.16	3.32	NOT DETECTED
27.	01-07-2024	58.28	22.31	17.53	20.47	0.38	--	NOT DETECTED
28.	04-07-2024	55.91	21.85	16.48	18.95	0.45	3.64	NOT DETECTED
29.	08-07-2024	61.38	24.62	18.25	22.17	0.49	3.78	NOT DETECTED
30.	11-07-2024	66.38	26.82	19.69	23.53	0.54	3.83	NOT DETECTED
31.	15-07-2024	63.73	25.21	18.14	22.16	0.46	3.71	NOT DETECTED

Continue...

Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	18-07-2024	70.16	27.13	21.36	24.64	0.52	3.77	NOT DETECTED
33.	22-07-2024	67.52	24.31	18.77	21.38	0.47	3.63	NOT DETECTED
34.	25-07-2024	63.10	21.96	16.35	19.13	0.41	3.69	NOT DETECTED
35.	29-07-2024	59.47	20.58	15.19	18.57	0.36	3.59	NOT DETECTED
36.	01-08-2024	61.42	21.86	16.58	20.81	0.52	3.61	NOT DETECTED
37.	05-08-2024	59.47	21.28	15.87	19.38	0.51	3.56	NOT DETECTED
38.	08-08-2024	63.71	22.64	16.95	20.15	0.55	3.68	NOT DETECTED
39.	12-08-2024	67.39	24.47	17.12	21.63	0.51	3.73	NOT DETECTED
40.	15-08-2024	65.28	23.19	16.56	20.06	0.56	3.70	NOT DETECTED
41.	19-08-2024	69.63	25.38	18.19	22.31	0.58	3.76	NOT DETECTED
42.	22-08-2024	63.29	24.37	17.42	21.35	0.57	3.73	NOT DETECTED
43.	26-08-2024	62.11	23.42	16.36	20.81	0.52	3.67	NOT DETECTED
44.	29-08-2024	65.38	24.88	17.15	21.37	0.58	3.71	NOT DETECTED
45.	02-09-2024	64.19	22.47	16.93	21.16	0.55	3.65	NOT DETECTED
46.	05-09-2024	67.28	23.81	17.24	21.72	0.58	3.72	NOT DETECTED
47.	09-09-2024	65.38	22.74	16.69	20.48	0.54	3.62	NOT DETECTED

Continue...

Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	12-09-2024	63.29	22.53	16.24	21.15	0.50	3.66	NOT DETECTED
49.	16-09-2024	67.63	23.96	17.48	21.95	0.57	3.69	NOT DETECTED
50.	19-09-2024	70.16	25.91	18.37	22.28	0.60	3.74	NOT DETECTED
51.	23-09-2024	68.47	24.63	17.86	21.42	0.57	3.71	NOT DETECTED
52.	26-09-2024	65.28	22.85	16.43	20.57	0.53	3.63	NOT DETECTED
53.	30-09-2024	67.83	23.47	17.12	21.63	0.56	3.59	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 Noise Level Monitoring							
Location Name		CT3 RMU-2					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		11-04-2024	13-05-2024	13-06-2024	11-07-2024	12-08-2024	12-09-2024
1	06:00 to 07:00	64.7	63.7	64.1	62.7	62.3	62.8
2	07:00 to 08:00	66.2	64.6	63.7	61.9	62.5	63.2
3	08:00 to 09:00	65.4	63.8	65.4	63.6	65.1	63.7
4	09:00 to 10:00	66.6	65.2	67.8	64.3	65.4	64.5
5	10:00 to 11:00	66.4	63.8	66.2	64.9	63.8	65.3
6	11:00 to 12:00	65.3	64.7	65.4	67.4	65.7	65.4
7	12:00 to 13:00	64.5	65.4	66.3	65.1	66.7	65.6
8	13:00 to 14:00	63.8	66.8	67.2	66.3	65.4	64.2
9	14:00 to 15:00	66.8	65.2	66.9	65.9	67.3	66.6
10	15:00 to 16:00	65.3	64.8	65.1	64.3	66.4	65.7
11	16:00 to 17:00	67.8	64.7	62.4	64.3	65.2	64.3
12	17:00 to 18:00	65.4	66.1	64.8	65.9	64.3	63.1
13	18:00 to 19:00	63.1	64.8	64.2	63.4	64.7	63.5
14	19:00 to 20:00	64.3	65.2	63.4	65.1	63.2	64.6
15	20:00 to 21:00	62.6	64.3	66.2	63.8	63.4	64.2
16	21:00 to 22:00	62.3	63.2	64.1	62.2	62.5	62.4
Day Time		<75 dB (A)					

Continue...

Location Name		CT3 RMU-2					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		11-04-2024	13-05-2024	13-06-2024	11-07-2024	12-08-2024	12-09-2024
1	22:00 to 23:00	63.2	63.5	63.3	62.7	61.8	61.3
2	23:00 to 24:00	63.4	62.4	63.8	62.4	62.3	62.6
3	24:00 to 01:00	61.9	63.5	62.7	63.9	62.8	63.5
4	01:00 to 02:00	63.5	63.8	63.2	63.1	62.5	61.5
5	02:00 to 03:00	62.6	62.3	61.7	63.4	63.2	63.5
6	03:00 to 04:00	61.1	60.6	62.3	61.7	60.7	62.1
7	04:00 to 05:00	61.7	62.3	60.4	61.1	61.3	60.7
8	05:00 to 06:00	61.3	61.6	61.6	60.2	59.4	59.2
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		Near Fire Station					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		04-04-2024	06-05-2024	06-06-2024	04-07-2024	05-08-2024	05-09-2024
1	06:00 to 07:00	64.8	62.9	63.2	62.4	61.8	62.1
2	07:00 to 08:00	64.2	65.1	64.3	63.7	63.5	63.3
3	08:00 to 09:00	65.3	64.7	65.7	63.2	64.6	63.8
4	09:00 to 10:00	66.9	65.4	64.2	66.4	65.3	64.5
5	10:00 to 11:00	65.4	66.8	66.1	65.2	65.2	66.2
6	11:00 to 12:00	66.8	65.4	65.8	61.3	63.7	65.4
7	12:00 to 13:00	68.4	67.2	66.7	63.8	64.2	66.6
8	13:00 to 14:00	66.2	65.8	66.3	64.5	65.7	64.9
9	14:00 to 15:00	65.8	68.1	67.5	66.4	64.8	66.5
10	15:00 to 16:00	65.8	66.2	68.3	65.8	66.1	65.3
11	16:00 to 17:00	65.4	65.1	66.8	67.2	66.7	65.8
12	17:00 to 18:00	65.8	63.4	65.4	64.2	65.4	64.3
13	18:00 to 19:00	63.4	64.7	65.1	62.8	63.8	63.6
14	19:00 to 20:00	65.2	62.9	63.4	64.7	64.1	65.2
15	20:00 to 21:00	64.3	64.2	65.1	63.3	62.8	64.1
16	21:00 to 22:00	62.8	63.6	63.1	62.7	62.1	62.5
Day Time		<75 dB (A)					

Continue...

Location Name		Near Fire Station					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		04-04-2024	06-05-2024	06-06-2024	04-07-2024	05-08-2024	05-09-2024
1	22:00 to 23:00	61.4	62.3	63.1	63.5	62.5	62.7
2	23:00 to 24:00	62.5	62.9	62.4	63.8	63.4	63.1
3	24:00 to 01:00	60.4	61.6	62.7	61.7	62.7	62.4
4	01:00 to 02:00	63.5	63.2	63.2	63.2	62.8	63.6
5	02:00 to 03:00	62.3	62.8	62.6	62.8	63.2	63.3
6	03:00 to 04:00	59.7	62.2	62.5	61.7	62.5	62.1
7	04:00 to 05:00	60.3	61.5	60.3	60.1	61.2	60.6
8	05:00 to 06:00	59.6	60.1	59.7	60.2	60.7	59.7
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		ADANI PORT – TUG Berth 600 KL Pump House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		08-04-2024	09-05-2024	10-06-2024	08-07-2024	08-08-2024	09-09-2024
1	06:00 to 07:00	62.4	64.2	62.8	61.8	60.5	61.3
2	07:00 to 08:00	63.7	62.8	63.4	64.1	61.8	60.7
3	08:00 to 09:00	63.8	65.4	63.9	62.8	63.3	61.5
4	09:00 to 10:00	64.3	64.9	66.1	64.5	63.8	63.4
5	10:00 to 11:00	64.2	65.4	64.8	65.8	64.6	62.8
6	11:00 to 12:00	65.1	66.3	67.3	64.7	66.1	64.5
7	12:00 to 13:00	66.5	67.3	65.4	67.3	65.4	67.2
8	13:00 to 14:00	67.9	67.1	68.4	65.2	67.3	65.4
9	14:00 to 15:00	65.4	66.4	65.3	64.8	66.2	65.8
10	15:00 to 16:00	63.6	65.3	67.2	66.3	65.7	66.3
11	16:00 to 17:00	65.1	63.8	64.7	65.7	64.3	65.2
12	17:00 to 18:00	63.6	64.7	67.2	66.3	66.8	65.7
13	18:00 to 19:00	65.3	64.3	65.3	64.6	65.2	64.3
14	19:00 to 20:00	63.6	66.1	64.7	62.8	64.3	61.7
15	20:00 to 21:00	62.7	63.4	64.5	65.1	64	63.4
16	21:00 to 22:00	60.5	62.7	63.8	63.5	61.9	61.7
Day Time		<75 dB (A)					

Continue...

Location Name		ADANI PORT – TUG Berth 600 KL Pump House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		08-04-2024	09-05-2024	10-06-2024	08-07-2024	08-08-2024	09-09-2024
1	22:00 to 23:00	60.8	61.7	61.5	60.3	60.1	58.5
2	23:00 to 24:00	58.8	60.3	59.8	61.5	62.8	59.9
3	24:00 to 01:00	61.3	62.7	60.4	63.2	63.2	62.5
4	01:00 to 02:00	62.8	61.3	62.7	62.6	63.6	62.5
5	02:00 to 03:00	61.7	63.4	62.9	61.2	61.9	62.8
6	03:00 to 04:00	63.3	61.8	61.3	60.5	62.3	63.4
7	04:00 to 05:00	62.3	61.6	61.8	58.7	60.5	62.3
8	05:00 to 06:00	60.1	59.8	60.3	59.5	58.6	61.1
Day Time		<70 dB (A)					

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




Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring							
Location Name		PUB/Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		01-04-2024	02-05-2024	03-06-2024	01-07-2024	01-08-2024	02-09-2024
1	06:00 to 07:00	63.5	61.8	60.4	58.3	59.1	59.6
2	07:00 to 08:00	65.8	63.6	62.8	61.2	60.3	59.8
3	08:00 to 09:00	67.2	65.4	66.1	64.8	62.8	62.3
4	09:00 to 10:00	65.5	66.8	65.3	65.7	64.7	63.6
5	10:00 to 11:00	64.8	65.3	65.9	64.4	65.4	64.8
6	11:00 to 12:00	64.2	65.9	67.1	66.8	66.2	65.2
7	12:00 to 13:00	65.5	64.6	66.3	64.2	65.7	64.8
8	13:00 to 14:00	63.1	65.2	64.7	65.4	64.8	65.4
9	14:00 to 15:00	64.3	66.5	65.1	64.8	63.7	64.8
10	15:00 to 16:00	64.8	65.3	65.5	65.2	64.5	64.3
11	16:00 to 17:00	63.2	64.8	64.6	63.9	64.8	64.9
12	17:00 to 18:00	65.7	63.4	64.1	65.5	66.2	65.7
13	18:00 to 19:00	64.1	62.2	62.3	63.2	64.5	65.4
14	19:00 to 20:00	62.7	64.5	63.8	62.9	63.8	64.8
15	20:00 to 21:00	62.9	63.7	64.1	63.5	64.1	63.5
16	21:00 to 22:00	61.3	60.4	61.2	60.4	61.3	61.9
Day Time		<75 dB (A)					

Continue...

Location Name		PUB/Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		01-04-2024	02-05-2024	03-06-2024	01-07-2024	01-08-2024	02-09-2024
1	22:00 to 23:00	59.7	60.1	60.3	61.2	59.7	58.5
2	23:00 to 24:00	58.4	59.4	60.8	59.6	60.1	60.4
3	24:00 to 01:00	59.7	60.3	61.4	62.5	62.3	61.7
4	01:00 to 02:00	60.2	62.3	62.1	62.8	63.6	62.5
5	02:00 to 03:00	63.1	62.6	61.8	61.1	62.4	61.4
6	03:00 to 04:00	60.3	61.2	61.6	60.4	61.7	63.2
7	04:00 to 05:00	58.3	59.7	60.4	58.4	59.7	58.7
8	05:00 to 06:00	57.8	58.3	59.2	58.7	59.3	58.5
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 Noise Level Monitoring						
Location Name		CT-4 RMU-2				
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time				
		20-04-2024	25-05-2024	22-06-2024	27-07-2024	24-08-2024
1	06:00 to 07:00	61.3	61.6	61.4	59.8	61.3
2	07:00 to 08:00	63.6	62.8	63.5	61.3	63.7
3	08:00 to 09:00	64.8	65.2	63.7	65.5	62.8
4	09:00 to 10:00	65.2	65.7	64.1	64.2	64.5
5	10:00 to 11:00	68.7	66.8	65.4	66.1	65.7
6	11:00 to 12:00	66.1	68.2	66.5	64.7	64.3
7	12:00 to 13:00	66.7	66.4	65.8	64.9	67.5
8	13:00 to 14:00	64.7	65.9	64.7	63.6	65.8
9	14:00 to 15:00	68.9	67.3	65.3	64.2	65.2
10	15:00 to 16:00	65.4	68.3	67.4	66.8	66.7
11	16:00 to 17:00	67.3	66.4	65.9	64.7	63.8
12	17:00 to 18:00	65.4	65.9	66.3	65.3	64.5
13	18:00 to 19:00	63.6	64.2	63.8	63.9	63.5
14	19:00 to 20:00	62.7	63.5	65.2	60.8	61.3
15	20:00 to 21:00	65.4	64.3	64.2	62.4	61.5
16	21:00 to 22:00	63.4	62.8	62.3	61.6	60.8
Day Time		<75 dB (A)				

Continue...

Location Name		CT-4 RMU-2				
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time				
		20-04-2024	25-05-2024	22-06-2024	27-07-2024	24-08-2024
1	22:00 to 23:00	62.2	61.8	61.3	61.5	60.2
2	23:00 to 24:00	61.7	63.4	62.7	63.7	61.8
3	24:00 to 01:00	63.2	64.8	61.3	62.6	62.5
4	01:00 to 02:00	61.7	63.7	62.8	63.8	62.8
5	02:00 to 03:00	63.5	63.1	62.7	61.5	63.2
6	03:00 to 04:00	61.2	62.3	61.6	62.3	61.8
7	04:00 to 05:00	62.4	61.8	60.4	61.1	59.8
8	05:00 to 06:00	60.8	61.3	60.8	60.3	60.5
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	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
Apr-24								
1	Particulate Matter	mg/Nm ³	23.07	20.75	22.48	20.94	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.89	6.98	8.53	8.11	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.68	21.63	20.84	20.83	50	IS 11255 (Part - 7)
May-24								
1	Particulate Matter	mg/Nm ³	22.78	21.11	21.85	20.10	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.53	7.15	8.13	7.92	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	20.85	22.24	19.95	20.22	50	IS 11255 (Part - 7)
Jun-24								
1	Particulate Matter	mg/Nm ³	20.54	20.13	20.46	19.27	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	6.93	6.63	7.57	7.38	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	18.79	20.74	17.83	19.85	50	IS 11255 (Part - 7)
Jul-24								
1	Particulate Matter	mg/Nm ³	19.47	18.37	18.93	17.59	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	6.59	6.14	7.12	6.85	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	18.11	19.12	17.31	17.74	50	IS 11255 (Part - 7)

Continue...

Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
Aug-24								
1	Particulate Matter	mg/Nm ³	19.13	18.63	19.15	17.31	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.09	6.51	7.47	6.69	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	19.12	19.48	18.82	17.38	50	IS 11255 (Part - 7)
Sep-24								
1	Particulate Matter	mg/Nm ³	20.86	19.06	19.84	19.23	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.38	6.89	7.79	7.35	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	19.74	20.17	19.46	17.96	50	IS 11255 (Part - 7)



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(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring									
Sr. No	Parameter	Unit	D.G. Set-6, 7 & 8 (1250 KVA - CT2) Common Stack	D.G. Set-9 (1500 KVA - CT3)	D.G. Set-10 (1500 KVA - CT3)	D.G. Set-11 (1500 KVA - CT3)	GPC B LIMI T	Method of Test	
			Aug-24	Aug-24					
			16-08-2024	16-08-2024	16-08-2024	16-08-2024			
1	Particulate Matter	mg/Nm ³	22.14	16.11	18.63	18.26	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO ₂	ppm	8.68	14.36	14.98	13.85	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO _x	ppm	17.39	24.93	26.39	20.38	50	IS 11255 (Part - 7)	
4	Carbon Monoxide	mg/Nm3	3.55	3.6	3.3	3.1	--	UERL/AIR/SOP/18	
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27	
Sr. No	Parameter	Unit	D.G. Set-12 (1500 KVA) - CT4	D.G. Set-13 (1500 KVA) - CT4	D.G. Set-14 (1500 KVA) - CT4	D.G. Set-1 (500 KVA) - DG House - MPT	GPC B LIMI T	Method of Test	
			Aug-24						Aug-24
			12-08-2024	12-08-2024	12-08-2024	11-08-2024			
1	Particulate Matter	mg/Nm ³	21.38	25.48	19.86	21.48	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO ₂	ppm	8.17	9.1	8.87	8.14	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO _x	ppm	18.64	21.37	18.42	27.19	50	IS 11255 (Part - 7)	
4	Carbon Monoxide	mg/Nm3	3.1	4.61	3.7	2.97	--	UERL/AIR/SOP/18	
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27	

Continue...

Sr. No	Parameter	Unit	D.G. Set-2 (500 KVA) - DG House - MPT	D.G. Set-3 (500 KVA) - DG House - MPT	D.G. Set-4 (500 KVA) - DG House - MPT	D.G. Set-5 (500 KVA) - DG House - MPT	GPC B LIMIT	Method of Test
			Aug-24					
			11-08-2024	11-08-2024	11-08-2024	11-08-2024		
1	Particulate Matter	mg/Nm³	25.47	21.91	26.83	20.86	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO₂	ppm	7.12	9.32	8.79	8.11	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NOₓ	ppm	28.73	27.68	28.13	25.37	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.28	4.25	4.31	3.19	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27



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

RESULTS OF BORE HOLE WATER

SR.NO.	TEST PARAMETERS	UNIT	Pump House-1	Pump House-2	Pump House-3	Near Unloading bays	Near ETP	TEST METHOD
			14-06-2024	14-06-2024	14-06-2024	14-06-2024	14-06-2024	
1.	pH @ 25 ° C	--	8.12	7.13	8.17	7.83	8.11	IS 3025(Part 11):2022
2.	Salinity	ppt	3.3	0.9	1.2	1.1	1.2	APHA 24th Ed.,2023,2520 B
3.	Oil & Grease	mg/L	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL(MDL:5.0)	IS 3025(Part 39):2021
4.	Hydrocarbon	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	GC/GCMS
5.	Lead as Pb	mg/L	BDL(MDL:0.01)	0.012	BDL(MDL:0.01)	0.013	0.024	IS 3025 (PART 47) 1994
6.	Arsenic as As	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	APHA 24th Ed.,2023,3114-C
7.	Nickel as Ni	mg/L	0.097	0.098	0.093	0.098	0.089	IS 3025 (PART 54) 2003
8.	Total Chromium as Cr	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	IS 3025 (PART 52) 2003
9.	Cadmium as Cd	mg/L	0.047	0.042	0.042	0.026	0.045	IS 3025(PART 41) 1992
10.	Mercury as Hg	mg/L	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	APHA 24th Ed.,2023, 3112-B
11.	Zinc as Zn	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	IS 3025(PART 49) 1994
12.	Copper as Cu	mg/L	0.075	0.079	0.095	0.096	0.104	IS 3025 (PART 42) 1992
13.	Iron as Fe	mg/L	BDL(MDL:0.1)	0.331	0.435	0.606	0.119	IS 3025(PART 53) 2003
14.	Insecticides/Pesticides	µg/L	Absent	Absent	Absent	Absent	Absent	USEPA 8081 B
15.	Depth of Water Level from Ground Level	meter	1.95	2.15	2	2.25	2.15	--



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Minimum Detection Limit

Ambient Air Quality Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
2	Particulate Matter (PM2.5)	µg/m ³	5 µg/m ³
3	Sulphur Dioxide (SO ₂)	µg/m ³	4 µg/m ³
4	Nitrogen Dioxide (NO ₂)	µg/m ³	5 µg/m ³
5	Carbon Monoxide (CO)	mg/m ³	0.01 mg/m ³
6	Ammonia (NH ₃)	µg/m ³	5 µg/m ³
7	Ozone (O ₃)	µg/m ³	5 µg/m ³
8	Lead (Pb)	µg/m ³	0.5 µg/m ³
9	Nickle (Ni)	ng/m ³	1 ng/m ³
10	Arsenic (As)	ng/m ³	1 ng/m ³
11	Benzene	µg/m ³	1µg/m ³
12	Benzo(o)Pyrene	ng/m ³	0.1 ng/m ³
14	Hydro Carbon	µg/m ³	1 µg/m ³

Stack Emission Monitoring

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

ETP Water

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

MARINE WATER			
Sr. No.	Test Parameter	Unit	MDL
1	pH	--	5
2	Temperature	oC	5
3	Total Suspended Solids	mg/L	4
4	BOD (3 Days @ 27oC)	mg/L	1
5	Dissolved Oxygen	mg/L	0.2
6	Salinity	ppt	0.01
7	Oil & Grease	mg/L	2
8	Nitrate as NO ₃	μmol/L	0.4
9	Nitrite as NO ₂	μmol/L	0.04
10	Ammonical Nitrogen as NH ₃	μmol/L	0.8
11	Phosphates as PO ₄	μmol/L	0.4
12	Total Nitrogen	μmol/L	2.2
13	Petroleum Hydrocarbon	μg/L	0.1
14	Total Dissolved Solids	mg/L	4
15	COD	mg/L	2

Sea SEDIMENT			
Sr. No.	Test Parameter	Unit	MDL
1	Organic Matter	%	0.5
2	Phosphorus as P	µg/g	1
3	Texture	--	--
4	Petroleum Hydrocarbon	µg/g	0.1
5	Aluminum as Al	%	0.1
6	Total Chromium as Cr+3	µg/g	2
7	Manganese as Mn	µg/g	1
8	Iron as Fe	%	0.1
9	Nickel as Ni	µg/g	1
10	Copper as Cu	µg/g	1
11	Zinc as Zn	µg/g	1
12	Lead as Pb	µg/g	1
13	Mercury as Hg	µg/g	0.05

BORE HOLE WATER			
Sr. No.	Test Parameter	Unit	MDL
1	pH @ 25 ° C	--	5
2	Salinity	ppt	--
3	Oil & Grease	mg/L	2
4	Hydrocarbon	mg/L	0.1
5	Lead as Pb	mg/L	0.01
6	Arsenic as As	mg/L	0.01
7	Nickel as Ni	mg/L	0.02
8	Total Chromium as Cr	mg/L	0.05
9	Cadmium as Cd	mg/L	0.003
10	Mercury as Hg	mg/L	0.001
11	Zinc as Zn	mg/L	0.05
12	Copper as Cu	mg/L	0.05
13	Iron as Fe	mg/L	0.1
14	Insecticides/Pesticides	µg/L	0.1
15	Depth of Water Level from Ground Level	meter	--

MARINE WATER MONITORING SUMMARY REPORT

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	2.7	BDL(MDL :1.0)	2.8	BDL(MDL :1.0)	2.5	BDL(MDL :1.0)	2.7	BDL(MDL :1.0)	2.8	BDL(MDL :1.0)	3.1	BDL(MDL :1.0)	IS 3025(Part 11):2022
2.	Temperature	°C	7.04	6.73	6.9	6.8	6.82	6.72	6.75	6.65	6.81	6.71	6.66	6.57	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	35.65	36.71	35.74	36.51	36.02	36.74	36.12	36.81	36.18	36.88	36.22	36.94	APHA 24th Ed., 2023,2540- D
4.	BOD (3 Days @ 27°C)	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)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	2.42	2.1	2.32	2.93	2.74	2.58	2.9	2.74	2.74	2.58	2.58	2.26	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	0.391	0.348	0.379	0.31	0.413	0.391	0.348	0.304	0.326	0.304	0.304	0.283	By Calculation
7.	Oil & Grease	mg/L	3.39	3.32	2.59	2.32	3.39	3.26	3.9	3.8	3.59	3.48	3.64	3.53	IS 3025 (Part 39):2021
8.	Nitrate as NO ₃	μmol/L	1.37	1.26	1.16	1.05	1.37	1.26	1.05	BDL(MDL :0.4)	1.37	1.16	1.16	1.05	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	6.201	5.768	5.289	5.56	6.543	6.231	7.148	6.844	6.656	6.364	6.524	6.073	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th Ed. 2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	34820	35760	34620	35420	34840	35510	35130	35720	35140	35746	35160	35780	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	28.3	16.2	20.2	8.1	24	8	20.1	16.1	32	20	28.6	16.3	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	2.7	BDL(MDL :1.0)	2.8	BDL(MDL :1.0)	2.5	BDL(MDL :1.0)	2.7	BDL(MDL :1.0)	2.8	BDL(MDL :1.0)	3.1	BDL(MDL :1.0)	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	7.04	6.73	6.9	6.8	6.82	6.72	6.75	6.65	6.81	6.71	6.66	6.57	IS 3025(Part 16):2023
15.	COD	mg/L	35.65	36.71	35.74	36.51	36.02	36.74	36.12	36.81	36.18	36.88	36.22	36.94	IS 3025(Part 58):2023

Continue...

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
A	Phytoplankton														
1.	Chlorophyll	mg/m³	3.06	3.26	3.07	3.24	3.06	3.28	3.07	3.27	3.06	3.26	3.07	3.27	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	7	1.55	8	1.59	9	1.57	8	1.55	7	1.54	6	1.55	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	114	91	112	92	113	91	112	91	114	92	112	91	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Coscinodiscus	Odontella	Nitzschia	Biddulphia	Nitzschia	Biddulphia	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	APHA (24th Ed. 2023)10200A-G
			Diploneis	Rhizosolenia	Diploneis	Rhizosolenia	Pinnularia	Rhizosolenia	Surirella	Pinnularia	Surirella	Pinnularia	Biddulphia	Pinnularia	
			Rhizosolenia	Coscinodiscus	Rhizosolenia	Coscinodiscus	Rhizosolenia	Coscinodiscus	Navicula	Thalassiothrix	Navicula	Thalassiothrix	Navicula	Thalassiothrix	
			Dinophysis	Grammatophora	Dinophysis	Grammatophora	Dinophysis	Grammatophora	Thallassiosira	Grammatophora	Nitzschia	Grammatophora	Nitzschia	Grammatophora	
			Thalassionema	Thallassiosira	Biddulphia	Navicula	Biddulphia	Navicula	Skeletonema	Ceratium	Skeletonema	Ceratium	Skeletonema	Ceratium	

B															
Zooplankton															
1	Abudance(Population)	noX103/100 m3	65		66		67		65		66		64		APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		Crustacean Larvae		Oikoplura		Oikoplura		Egg(Fish and Shrimps)		Egg(Fish and Shrimps)		Egg(Fish and Shrimps)		
			Egg(Fish and Shrimps)		Pinnularia		Pinnularia		Oikoplura		Oikoplura		Oikoplura		
			Copepods		Copepods		Copepods		Copepods nauplii		Copepods nauplii		Copepods nauplii		
			Crustacean		Copepods nauplii		Copepods nauplii		Crustacean		Crustacean		Crustacean		
			Bivalve Larvae		Thalassionema		Thalassionema		Bivalve Larvae		Bivalve Larvae		Bivalve Larvae		
3	Total Biomass	ml/100 m³	13.66		13.65		13.66		13.67		13.68		13.67		

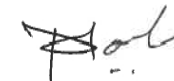
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RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
C	Microbiological														
1	Total Bacterial Count	CFU/ml	112		114		112		111		112		114		APHA 24 th Ed.2023,9215-C
2	Total Coliform	/100ml	14		13		12		13		12		13		APHA 24 th Ed.2023,9222-B
3	Ecoli	/100ml	9		8		9		8		87		88		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24 th Ed.2023,9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.48	0.44	0.48	0.46	0.49	0.44	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	532.5	542.3	535.3	540.6	562.1	542.5	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.91	3.88	3.92	3.96	3.95	3.98	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	135.2	142.3	146.2	142.4	148.6	152.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	684.2	702.5	686	702.2	690.8	650.8	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.12	3.94	3.95	3.98	3.91	3.88	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	48.62	44.25	42.3	44.5	46.2	42.6	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	52.21	46.35	44.6	48.6	52.1	54.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	111.4	102.5	110.5	114.5	120.5	106.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.41	2.24	2.22	2.29	2.11	1.86	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

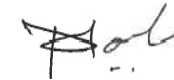
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RESULTS OF SEDIMENT ANALYSIS [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	APHA (24th Ed. 2023)10500
			<i>Polychates</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	
			<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Amphipods</i>	<i>Gastropods</i>	<i>Gastropods</i>	
			<i>Amphipods</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Polychates</i>	
2	MeioBenthos	--	<i>Herpectacoids</i>	<i>Gastropods</i>	<i>Herpectacoids</i>	<i>Turbellarians</i>	<i>Turbellarians</i>	<i>Turbellarians</i>	
			<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	<i>Decapods Larvae</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	
3	Population	no/m ²	366	367	368	367	368	367	



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RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.11	8.01	8.09	7.94	8.15	7.99	8.17	8.03	8.15	8.04	8.18	8.08	IS 3025(Part 11):2022
2.	Temperature	°C	29.9	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.8	29.7	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	128	102	142	114	132	102	142	114	130	116	124	106	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.6	BDL(MDL :1.0)	2.5	BDL(MDL :1.0)	2.9	BDL(MDL :1.0)	2.6	BDL(MDL :1.0)	2.7	BDL(MDL :1.0)	2.9	BDL(MDL :1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.84	6.53	6.7	6.6	6.62	6.52	6.45	6.35	6.71	6.5	6.57	6.37	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.64	36.88	35.28	36.65	35.42	36.72	35.56	36.81	35.67	36.84	35.72	36.89	By Calculation
7.	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)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	µmol/L	2.26	1.94	2.76	2.59	3.23	3.06	3.39	3.06	3.23	3.06	3.06	2.9	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	µmol/L	0.261	0.239	0.379	0.276	0.37	0.348	0.413	0.391	0.456	0.413	0.413	0.391	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	µmol/L	3.42	3.32	2.32	1.56	3.42	3.39	4.01	3.9	3.74	3.64	3.64	3.59	APHA 24th Ed.2023,4500-NH3 B
11.	Phosphates as PO ₄	µmol/L	1.26	1.16	1.37	1.26	1.58	1.47	1.16	BDL(MDL :0.4)	1.05	BDL(MDL :0.4)	1.16	BDL(MDL :0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	µmol/L	5.941	5.499	5.459	4.426	7.02	6.798	7.813	7.351	7.426	7.113	7.113	6.881	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	35810	36550	35640	36120	35550	36080	35840	36240	35910	36264	36010	36310	IS 3025(Part 16):2023
15.	COD	mg/L	32.4	20.2	24.2	12.1	27.9	12	32.1	20.1	36	24	32.7	20.4	IS 3025(Part 58):2023

Continue...

RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A	Phytoplankton														
1.	Chlorophyll	mg/m³	2.97	2.67	2.98	2.68	2.97	2.69	2.98	2.68	2.97	2.67	2.96	2.66	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.05	2.03	2.06	2.03	2.07	2.04	2.06	2.03	2.07	2.02	2.06	2.01	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	93	148	92	147	91	148	92	147	91	145	92	144	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Thalassiothrix	Pinnularia	Thalassiothrix	Pinnularia	Dinophysis	Pinnularia	Navicula	Thalassiothrix	Surirella	Thalassiothrix	Surirella	Thalassiothrix	APHA (24th Ed. 2023)10200A-G
			Surirella	Biddulphia	Surirella	Biddulphia	Surirella	Biddulphia	Skeletonema	Surirella	Pinnularia	Surirella	Pinnularia	Surirella	
			Navicula	Navicula	Navicula	Navicula	Nitzschia	Navicula	Rhizosolenia	Navicula	Rhizosolenia	Navicula	Melosira	Navicula	
			Thalassiosira	Rhizosolenia	Cyclotella	Rhizosolenia	Cyclotella	Rhizosolenia	Dinophysis	Thalassiosira	Dinophysis	Thalassiosira	Dinophysis	Thalassiosira	
			Skeletonema	Skeletonema	Skeletonema	Thalassiosira	Skeletonema	Thalassiosira	Thalassionema	Skeletonema	Thalassionema	Skeletonema	Thalassionema	Skeletonema	

B		Zooplankton							APHA (24rd Ed. 2023)10200 G
1	Abudance (Populati on)	noX10 3/ 100 m3	44	43	44	43	42	41	
2	Name of Group Number and name of group species of each group		Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	
			Copepods	Oikoplura	Nitzschia	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	
			Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods	Copepods	Copepods	
			Crustacean	Crustacean	Pinnularia	Crustacean	Crustacean	Copepods nauplii	
			Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/100 m³	15.2	15.1	15.2	15.2	15.1	15.2	

Continue...

RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
C	Microbiological														
1	Total Bacterial Count	CFU/ml	124		126		128		127		128		130		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	35		36		35		36		37		37		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	13		12		11		10		11		13		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.52	0.48	0.52	0.48	0.41	0.48	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	602.2	582.4	594.2	602.8	596.2	580.3	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.92	3.84	3.86	3.89	4.04	3.92	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	144.3	135.2	142.3	146.7	138.4	142.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	702.4	672.4	682.6	694.3	702.5	680.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.11	3.87	4.01	4.06	4.11	4.06	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	42.25	48.65	49.36	50.34	48.2	44.1	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	42.65	51.35	52.3	48.36	46.9	44.8	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	122.5	106.5	110.4	113.4	118.4	104.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	1.95	2.02	2.12	2.09	2.14	1.96	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

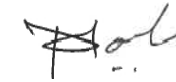
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RESULTS OF SEDIMENT ANALYSIS [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	<i>Decapods Larvae</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	APHA (24th Ed. 2023)10500
			<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Gastropods</i>	<i>Gastropods</i>	<i>Gastropods</i>	
			<i>Amphipods</i>	<i>Amphipods</i>	<i>Gastropods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	
			<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Amphipods</i>	<i>Amphipods</i>	
2	MeioBenthos	--	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Decapods Larvae</i>	<i>Herpectacoids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	
			<i>Herpectacoids</i>	<i>Herpectacoids</i>	<i>Herpectacoids</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Polychates</i>	
3	Population	no/m ²	302	303	301	302	301	302	



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RESULTS OF MARINE WATER [M3 EAST OF BOCHASLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.21	7.98	8.18	8.03	8.27	8.09	8.23	8.04	8.19	8.09	8.22	8.05	IS 3025(Part 11):2022
2.	Temperature	°C	30	29.9	29.9	29.8	29.8	29.7	29.7	29.6	29.8	29.7	29.7	29.6	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	134	106	102	88	110	92	124	88	118	96	126	98	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL(MDL: 1.0)	2.7	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.94	6.73	6.8	6.7	6.72	6.62	6.65	6.55	6.71	6.6	6.57	6.47	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.29	36.54	35.33	36.12	35.42	36.22	35.62	36.38	35.74	36.52	35.79	36.64	By Calculation
7.	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)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	2.58	2.26	2.67	2.41	2.42	2.26	3.23	2.9	3.55	3.23	3.39	3.06	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.37	0.326	0.475	0.365	0.326	0.304	0.37	0.326	0.435	0.391	0.456	0.435	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.42	3.26	2.62	2.58	3.59	3.53	3.85	3.8	4.06	3.95	3.8	3.74	APHA 24th Ed.2023,4500-NH3 B
11.	Phosphates as PO ₄	μmol/L	1.16	1.05	1.26	1.16	1.26	1.05	1.37	1.26	1.47	1.26	1.37	1.26	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	6.37	5.846	5.765	5.355	6.336	6.094	7.45	7.026	8.045	7.571	7.646	7.235	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	35230	36610	35290	36080	35430	36140	35524	36180	35540	36218	35460	36180	IS 3025(Part 16):2023
15.	COD	mg/L	24.3	12.1	16.1	4	20	8	24.1	12	28	16	24.5	12.3	IS 3025(Part 58):2023

Continue...

RESULTS OF MARINE WATER [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	2.42	2.45	2.44	2.47	2.43	2.46	2.42	2.47	2.41	2.48	2.42	2.47	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	1.66	1.43	1.67	1.42	1.65	1.41	1.66	1.42	1.65	1.41	1.66	1.42	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	156	96	155	97	154	96	155	97	154	98	155	97	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Pinnularia	Coscino discus	Pinnularia	Coscino discus	Pinnularia	Coscino discus	Melosira	Cyclotella	Melosira	Cyclotella	Melosira	Cyclotella	APHA (24th Ed. 2023)10200A-G
			Biddulphia	Pinnularia	Biddulphia	Pinnularia	Biddulphia	Pinnularia	Pinnularia	Pinnularia	Pinnularia	Pinnularia	Pinnularia	Pinnularia	
			Navicula	Rhizosolenia	Navicula	Rhizosolenia	Navicula	Rhizosolenia	Skeletonema	Skeletonema	Rhizosolenia	Skeletonema	Rhizosolenia	Skeletonema	
			Thalassiosira	Dinophysis	Thalassiosira	Dinophysis	Thalassiosira	Dinophysis	Thalassiosira	Thalassiosira	Thalassiosira	Thalassiosira	Thalassiosira	Thalassiosira	
			Skeletonema	Thalassionema	Skeletonema	Thalassionema	Skeletonema	Thalassionema	Thalassionema	Thalassionema	Thalassionema	Thalassionema	Thalassionema	Thalassionema	

Zooplankton															
1	Abundance (Population)	noX10 ³ / 100 m ³	43	41	43	41	42	43							
2	Name of Group Number and name of group species of each group		<i>Copepods</i>	<i>Copepods</i>	<i>Rhizosolenia</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>							
			<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Crustacean Larvae</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>							
			<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>							
			<i>Crustacean</i>	<i>Pinnularia</i>	<i>Oikoplura</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Egg(Fish and Shrimps)</i>							
			<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Thalassionema</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>							
3	Total Biomass	ml/100 m ³	15.4	15.3	15.1	15.1	15.3	15.4							

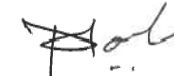
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RESULTS OF MARINE WATER [M3 EAST OF BOCHASLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTOM	SURFACE	BOTTO M	SURFACE	BOTTO M			
C			Microbiological												
1	Total Bacterial Count	CFU/m l	134		136		137		136		138		140		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100m l	31		32		33		31		32		33		APHA 24thEd.2023, 9222-B
3	E.coli	/100m l	20		21		22		21		20		22		IS :15185:2016
4	Enterococcus	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:200 2
5	Salmonella	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:201 6
6	Shigella	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100m l	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M3 EAST OF BOCHASLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
1.	Organic Matter	%	0.54	0.58	0.62	0.58	0.55	0.58	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	624.2	610.2	611.4	590.5	608.4	598.5	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.95	3.82	3.86	3.94	3.97	4.08	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	143.5	132.4	134.2	128.4	113.5	124.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	546.5	542.2	544.3	536.4	498.6	510.6	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.05	3.95	3.98	4.08	4.12	3.82	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	35.94	36.25	37.2	38.4	42.44	40.39	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	38.24	34.22	34.35	35.26	36.28	37.88	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	124.3	108.5	112.4	118.4	122.2	120.21	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.11	1.98	2.03	2.14	2.09	2.14	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

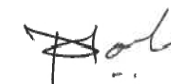
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RESULTS OF SEDIMENT ANALYSIS [M3 EAST OF BOCHASLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
D	Benthic Organisms								
1	Macrobenthos	--	Polychates	Polychates	Amphipods	Gastropods	Gastropods	Decapods Larvae	APHA (24th Ed. 2023)10500
			Gastropods	Gastropods	Gastropods	Isopods	Isopods	Isopods	
			Isopods	Isopods	Isopods	Amphipods	Amphipods	Amphipods	
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	
2	MeioBenthos	--	Herpectacoids	Herpectacoids	Herpectacoids	Polychates	Polychates	Foraminiferan	
			Polychates	Polychates	Polychates	Herpectacoids	Herpectacoids	Herpectacoids	
3	Population	no/m ²	298	296	298	297	295	294	



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RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.22	8.06	8.21	8.02	8.22	8.06	8.16	8	8.21	8.04	8.24	8.09	IS 3025(Part 11):2022
2.	Temperature	°C	30	29.9	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.6	29.5	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	122	104	116	94	106	88	128	114	122	108	132	114	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.1	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.7	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.9	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.84	6.9	6.8	6.82	6.72	6.75	6.55	6.91	6.71	6.76	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.88	36.74	35.64	36.74	35.71	36.81	35.89	36.98	36.02	37.11	36.12	37.18	By Calculation
7.	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)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	µmol/L	2.1	1.77	3.45	2.59	3.39	3.23	3.23	2.9	3.39	3.06	3.23	2.9	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	µmol/L	0.196	0.174	0.431	0.328	0.391	0.37	0.435	0.391	0.391	0.37	0.456	0.413	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	µmol/L	3.32	3.26	2.84	2.62	3.69	3.64	4.11	4.06	4.22	4.11	3.95	3.9	APHA 24th Ed.2023,4500-NH ₃ B
11.	Phosphates as PO ₄	µmol/L	1.05	BDL(MDL: 0.4)	1.16	BDL(MDL: 0.4)	1.26	1.16	1.47	1.37	1.05	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	µmol/L	5.616	5.204	6.721	5.538	7.471	7.24	7.775	7.351	8.001	7.54	7.636	7.213	APHA 24th Ed.2023,4500 NH ₃ - B
13.	Petroleum Hydrocarbon	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	35590	36720	35160	35920	35240	36100	35610	36210	36642	36228	36320	36710	IS 3025(Part 16):2023
15.	COD	mg/L	28.3	16.2	20.2	8.1	24	12	28.1	16.1	32	20	28.6	16.3	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A	Phytoplankton														
1.	Chlorophyll	mg/m³	2.34	3.1	2.33	3.2	2.36	3.1	2.35	3.2	2.36	3.1	2.37	3.2	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.4	5	2.3	6	2.2	7	2.1	8	2.2	9	2.1	8	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	157	87	158	88	157	89	156	88	157	87	156	88	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Coscino discus	Surirella	Surirella	Surirella	Coscino discus	Surirella	Thalassiosira	Coscino discus	Thalassiosira	Coscino discus	Thalassiosira	Coscino discus	APHA (24th Ed. 2023)10200A-G
			Diploneis	Biddulphia	Diploneis	Biddulphia	Diploneis	Biddulphia	Melosira	Diploneis	Melosira	Diploneis	Melosira	Diploneis	
			Rhizosolenia	Navicula	Thalassiothrix	Coscino discus	Skeletonema	Coscino discus	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	
			Dinophysis	Thalassiosira	Navicula	Thalassiosira	Navicula	Thalassiosira	Rhizosolenia	Dinophysis	Rhizosolenia	Dinophysis	Rhizosolenia	Dinophysis	
			Thalassionema	Skeletonema	Thalassionema	Skeletonema	Thalassionema	Skeletonema	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	

Zooplankton															
B															
1	Abundance (Population)	noX10 ³ / 100 m ³	37	38	39	38	37	36							APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>							
			<i>Copepods nauplii</i>	<i>Rhizosolenia</i>	<i>Rhizosolenia</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Egg(Fish and Shrimps)</i>							
			<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Egg(Fish and Shrimps)</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>							
			<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Copepods nauplii</i>							
			<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>							
3	Total Biomass	ml/100 m ³	14.26	14.27	14.26	14.25	14.26	14.27							

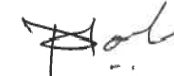
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RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	102	103	104	103	102	104	103	102	104	103	102	104	APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	42	43	44	42	41	40	42	41	40	42	41	40	APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	11	12	11	12	11	12	11	12	11	12	11	12	IS :15185:2016
4	Enterococcus	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	IS:15186:200 2
5	Salmonella	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	IS:15187:201 6
6	Shigella	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	IS: 5887 (Part V):1976



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RESULTS OF SEDIMENT ANALYSIS [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.46	0.43	0.51	0.48	0.42	0.46	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	544.6	541.3	562.2	544.6	562.3	550.2	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.06	3.99	4.02	4.08	4.01	4.09	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	144.5	151.2	142.3	148.6	139.8	146.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	512.4	524.3	530.4	518.6	512.2	521.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	3.91	3.97	4.03	3.92	3.98	4.06	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	45.6	44.2	45.8	44.2	48.6	44.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	42.8	49.8	50.6	46.8	48.2	52.36	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	152.3	142.6	148.6	438.5	444.2	435.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.22	2.02	2.11	1.86	1.88	1.96	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

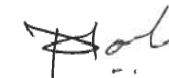
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RESULTS OF SEDIMENT ANALYSIS [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	Foraminiferan	Amphipods	Amphipods	Sipunculids	Sipunculids	Sipunculids	APHA (24th Ed. 2023)10500
			Gastropods	Gastropods	Gastropods	Decapods Larvae	Decapods Larvae	Decapods Larvae	
			Isopods	Isopods	Isopods	Polychates	Polychates	Polychates	
			Sipunculids	Sipunculids	Turbellarians	Isopods	Isopods	Foraminiferan	
2	MeioBenthos	--	Herpectacoids	Herpectacoids	Herpectacoids	Turbellarians	Gastropods	Gastropods	
			Polychates	Turbellarians	Decapods Larvae	Herpectacoids	Herpectacoids	Herpectacoids	
3	Population	no/m ²	307	306	305	304	303	302	



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RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.14	7.98	8.21	8.03	8.14	7.98	8.19	8.01	8.24	8.11	8.19	8.03	IS 3025(Part 11):2022
2.	Temperature	°C	30.1	29.9	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.6	29.5	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	132	110	124	104	136	112	126	108	132	112	126	108	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27oC)	mg/L	2.9	BDL(MDL: 1.0)	2.5	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.6	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.84	6.63	6.7	6.6	6.62	6.52	6.65	6.45	6.6	6.5	6.47	6.37	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.12	36.33	35.19	36.48	35.28	36.52	35.44	36.66	35.56	36.71	35.42	36.74	By Calculation
7.	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)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO3	µmol/L	2.74	2.42	2.8	2.37	2.9	2.74	3.23	2.9	3.71	3.39	3.55	3.39	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO2	µmol/L	0.283	0.239	0.259	0.189	0.304	0.261	0.348	0.326	0.391	0.37	0.37	0.348	APHA 24th Ed.2023,4500NO2 B
10.	Ammonical Nitrogen as NH3	µmol/L	3.74	3.59	4.05	3.83	3.74	3.69	4.11	4.01	3.95	3.85	4.11	4.06	APHA 24th Ed.2023,4500-NH3 B
11.	Phosphates as PO4	µmol/L	1.05	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	1.16	1.05	1.05	BDL(MDL: 0.4)	1.16	1.05	1.37	1.26	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	µmol/L	6.763	6.249	7.109	6.389	6.944	6.691	7.688	7.236	8.051	7.61	8.03	7.798	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	34840	35980	34560	35230	34620	35180	34980	35640	35060	35710	35140	35742	IS 3025(Part 16):2023
15.	COD	mg/L	16.2	12.1	8.1	4	12	8	16.1	12	20	16	16.3	12.3	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	3.11	3.16	3.12	3.15	3.13	3.14	3.12	3.13	3.11	3.12	3.12	3.13	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.2	1.21	2.1	1.21	2.2	1.22	2.1	1.21	2.2	1.22	2.1	1.23	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	124	112	123	113	124	112	123	113	122	112	121	113	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	<i>Diploneis</i>	<i>Navicula</i>	<i>Diploneis</i>	<i>Navicula</i>	<i>Navicula</i>	<i>Navicula</i>	<i>Navicula</i>	<i>Pinnularia</i>	<i>Navicula</i>	<i>Pinnularia</i>	<i>Navicula</i>	<i>Pinnularia</i>	APHA (24th Ed. 2023)10200A-G
			<i>Rhizosolenia</i>	<i>Skeletonema</i>	<i>Rhizosolenia</i>	<i>Skeletonema</i>	<i>Biddulphia</i>	<i>Skeletonema</i>	<i>Biddulphia</i>	<i>Biddulphia</i>	<i>Biddulphia</i>	<i>Biddulphia</i>	<i>Biddulphia</i>	<i>Rhizosolenia</i>	
			<i>Nitzschia</i>	<i>Rhizosolenia</i>	<i>Nitzschia</i>	<i>Rhizosolenia</i>	<i>Nitzschia</i>	<i>Rhizosolenia</i>	<i>Nitzschia</i>	<i>Navicula</i>	<i>Nitzschia</i>	<i>Navicula</i>	<i>Odontella</i>	<i>Dinophysis</i>	
			<i>Cyclotella</i>	<i>Dinophysis</i>	<i>Cyclotella</i>	<i>Biddulphia</i>	<i>Cyclotella</i>	<i>Biddulphia</i>	<i>Cyclotella</i>	<i>Thalassiosira</i>	<i>Cyclotella</i>	<i>Thalassiosira</i>	<i>Cyclotella</i>	<i>Coscinodiscus</i>	
			<i>Pleurosigma</i>	<i>Thalassionema</i>	<i>Pleurosigma</i>	<i>Thalassionema</i>	<i>Pleurosigma</i>	<i>Thalassionema</i>	<i>Pleurosigma</i>	<i>Skeletonema</i>	<i>Pleurosigma</i>	<i>Skeletonema</i>	<i>Pleurosigma</i>	<i>Skeletonema</i>	

B		Zooplankton													APHA (24rd Ed. 2023)10200 G
1	Abundance (Population)	noX10 ³ / 100 m ³	52	51	52	51	52	51	52	51	52	51	52	51	
2	Name of Group Number and name of group species of each group		<i>Copepods nauplii</i>	<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	
			<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	
			<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Copepods nauplii</i>	
			<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	
			<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	
3	Total Biomass	ml/100 m ³	14.11	14.12	14.11	14.12	14.11	14.12	14.11	14.12	14.11	14.12	14.11	14.12	

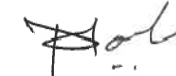
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RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	142		144		144		143		144		148		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	30		31		32		31		32		31		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	16		17		18		17		16		17		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:200 2
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:201 6
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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Mr. Nitin Tandel
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RESULTS OF SEDIMENT ANALYSIS [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.42	0.48	0.44	0.48	0.52	0.56	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	608	612.2	602	586	594.2	612.3	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.99	4.06	4.02	3.86	4.05	4.11	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	142.6	135.6	144.2	136	142.2	140.6	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	574.2	602.2	610.8	596.5	614.2	610.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.16	4.03	4.06	3.74	3.86	4.01	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	44.82	42.1	48.6	46.2	42.5	44.6	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	42.9	44.8	52.4	54.3	51.2	55.9	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	124.3	131.2	142.6	140.5	124.6	103.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.16	2.18	2.09	2.11	2.02	1.75	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

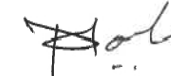
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RESULTS OF SEDIMENT ANALYSIS [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	<i>Amphipods</i>	<i>Amphipods</i>	<i>Amphipods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	APHA (24th Ed. 2023)10500
			<i>Polychates</i>	<i>Sipunculids</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Polychates</i>	<i>Gastropods</i>	
			<i>Isopods</i>	<i>Isopods</i>	<i>Isopods</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	<i>Sipunculids</i>	
			<i>Gastropods</i>	<i>Gastropods</i>	<i>Gastropods</i>	<i>Amphipods</i>	<i>Amphipods</i>	<i>Amphipods</i>	
2	MeioBenthos	--	Decapods Larvae	Decapods Larvae	Foraminiferan	Polychates	Herpectacoids	<i>Herpectacoids</i>	
			<i>Herpectacoids</i>	<i>Gastropods</i>	<i>Herpectacoids</i>	<i>Foraminiferan</i>	<i>Foraminiferan</i>	<i>Polychates</i>	
3	Population	no/m ²	306	307	308	307	306	307	



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RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.05	7.86	8.17	7.98	7.98	7.86	8.26	8.04	8.18	8.06	8.24	8.11	IS 3025(Part 11):2022
2.	Temperature	°C	29.9	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.6	29.5	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	118	90	108	94	114	98	109	86	120	96	118	99	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL(MDL: 1.0)	2.9	BDL(MDL: 1.0)	3	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.73	6.9	6.8	6.82	6.72	6.65	6.55	6.81	6.71	6.66	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.72	36.47	35.64	36.25	35.76	36.35	35.82	36.44	35.74	36.48	35.65	36.49	By Calculation
7.	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)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.06	2.74	3.23	2.59	3.06	2.9	2.74	2.42	3.23	3.06	3.55	3.23	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.348	0.326	0.293	0.259	0.283	0.261	0.326	0.304	0.348	0.326	0.391	0.37	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.85	3.74	3.97	3.84	3.64	3.59	3.9	3.8	4.16	4.06	3.95	3.9	APHA 24th Ed.2023,4500-NH3 B
11.	Phosphates as PO ₄	μmol/L	1.16	BDL(MDL: 0.4)	1.16	1.05	1.16	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	1.16	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.258	6.806	7.493	6.689	6.983	6.751	6.966	6.524	7.738	7.446	7.891	7.5	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	35470	36240	35410	36320	35520	36140	35850	36320	35890	36356	35924	36380	IS 3025(Part 16):2023
15.	COD	mg/L	20.2	16.2	12.1	8.1	16	12	20.1	16.1	24	20	20.4	16.3	IS 3025(Part 58):2023

RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	3.06	2.7	3.07	2.6	3.08	2.7	3.07	2.6	3.06	2.7	3.07	2.6	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.7	1.77	2.6	1.78	2.7	1.77	2.6	1.78	2.7	1.77	2.6	1.76	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	91	121	92	122	91	121	92	122	91	123	92	122	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Nitzschia	Thalassiothrix	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Diploneis	Coscino discus	Diploneis	Coscino discus	Diploneis	Coscino discus	APHA (24th Ed. 2023)10200A-G
			Pinnularia	Surirella	Pinnularia	Surirella	Odontella	Surirella	Rhizosolenia	Diploneis	Rhizosolenia	Diploneis	Rhizosolenia	Diploneis	
			Odontella	Navicula	Dinophysis	Navicula	Dinophysis	Navicula	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	Nitzschia	Rhizosolenia	
			Dinophysis	Thalassiosira	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	Thalassiothrix	Dinophysis	
			Surirella	Skeletonema	Surirella	Skeletonema	Cyclotella	Skeletonema	Pleurosigma	Thalassionema	Pleurosigma	Thalassionema	Cyclotella	Thalassionema	

B Zooplankton															
1	Abundance (Population)	noX10 ³ / 100 m ³	41	44	43	42	41	42	41	42	41	42	41	42	APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	<i>Egg(Fish and Shrimps)</i>	
			<i>Pinnularia</i>	<i>Pinnularia</i>	<i>Coscinodiscus</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	
			<i>Odontella</i>	<i>Odontella</i>	<i>Odontella</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	<i>Copepods nauplii</i>	
			<i>Dinophysis</i>	<i>Dinophysis</i>	<i>Dinophysis</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Crustacean</i>	
			<i>Surirella</i>	<i>Surirella</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	<i>Bivalve Larvae</i>	
3	Total Biomass	ml/100 m ³	16.58	16.57	16.58	16.57	16.58	16.57	16.58	16.57	16.58	16.57	16.58	16.59	

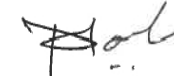
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RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	94		96		98		99		98		96		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	24		26		27		26		27		26		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	13		11		12		11		12		11		IS :15185:2016
4	Enterococcus	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15186:200 2
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:201 6
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.24	8.08	8.18	8.01	8.06	7.85	8.11	7.95	8.17	7.99	8.14	7.96	IS 3025(Part 11):2022
2.	Temperature	°C	30	29.9	29.9	29.8	29.8	29.7	29.7	29.6	29.8	29.7	29.7	29.6	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	128	98	116	84	122	80	128	86	124	104	132	112	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.4	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	2.9	BDL(MDL: 1.0)	2.6	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.84	6.9	6.8	6.82	6.72	6.85	6.65	6.91	6.71	6.76	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.55	36.62	35.62	36.74	35.74	36.82	35.83	36.94	35.75	36.97	35.78	37.02	By Calculation
7.	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)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	IS 3025(Part 39):2021
8.	Nitrate as NO ₃	µmol/L	3.23	2.9	3.02	2.59	2.74	2.42	3.06	2.9	2.9	2.58	3.23	3.06	APHA 24th Ed.2023,4500 NO3-
9.	Nitrite as NO ₂	µmol/L	0.348	0.326	0.276	0.215	0.304	0.283	0.391	0.37	0.413	0.37	0.391	0.37	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	µmol/L	3.95	3.8	3.79	3.36	3.8	3.74	3.9	3.74	4.11	4.01	4.16	4.06	APHA 24th Ed.2023,4500-NH ₃
11.	Phosphates as PO ₄	µmol/L	1.16	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	1.16	BDL(MDL: 0.4)	1.16	1.05	1.37	1.16	1.05	BDL(MDL: 0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	µmol/L	7.528	7.026	7.086	6.165	6.844	6.443	7.351	7.01	7.423	6.96	7.781	7.49	APHA 24th Ed.2023,4500 NH ₃ -
13.	Petroleum Hydrocarbon	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	35120	36250	34830	35640	35090	35840	35420	36204	35440	36340	35390	36388	IS 3025(Part 16):2023
15.	COD	mg/L	20.2	12.1	12.1	4	16	8	20.1	12	24	16	20.4	12.3	IS 3025(Part 58):2023

Continue...

RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	3.3	3.12	3.2	3.14	3.1	3.12	3.2	3.11	3.1	3.12	3.2	3.11	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	1.7	1.6	1.8	1.38	1.7	1.8	1.6	1.7	1.7	1.6	1.6	1.7	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	114	107	113	109	114	107	113	106	112	107	113	106	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Odontella	Cyclotella	Odontella	Cyclotella	Odontella	Cyclotella	Nitzschia	Diploneis	Nitzschia	Diploneis	Nitzschia	Diploneis	APHA (24th Ed. 2023)10200A-G
			Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	Grammatophora	Rhizosolenia	Grammatophora	Rhizosolenia	Grammatophora	Rhizosolenia	
			Coscinodiscus	Skeletonema	Coscinodiscus	Skeletonema	Coscinodiscus	Skeletonema	Diploneis	Nitzschia	Diploneis	Nitzschia	Diploneis	Nitzschia	
			Grammatophora	Thalassiosira	Grammatophora	Thalassiosira	Grammatophora	Thalassiosira	Thalassiothrix	Cyclotella	Thalassiothrix	Cyclotella	Thalassiothrix	Grammatophora	
			Thalassiosira	Thalassionema	Thalassiosira	Thalassionema	Thalassiosira	Thalassionema	Pleurosigma	Pleurosigma	Pleurosigma	Pleurosigma	Pleurosigma	Pleurosigma	
B Zooplankton															
1	Abundance (Population)	noX10³/ 100 m³	32		31		32		31		32		30		APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		Coscinodiscus		Coscinodiscus		Odontella		Oikoplura		Oikoplura		Oikoplura		
			Diploneis		Egg(Fish and Shrimps)		Egg(Fish and Shrimps)		Copepods nauplii		Copepods nauplii		Egg(Fish and Shrimps)		
			Rhizosolenia		Rhizosolenia		Rhizosolenia		Crustacean Larvae		Crustacean Larvae		Crustacean Larvae		
			Dinophysis		Bivalve Larvae		Bivalve Larvae		Crustacean		Crustacean		Crustacean		
			Thalassionema		Thalassionema		Thalassionema		Bivalve Larvae		Bivalve Larvae		Bivalve Larvae		
3	Total Biomass	ml/100 m³	14.77		14.76		14.77		14.76		14.77		14.78		

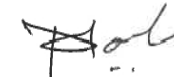
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RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	92		94		10		11		12		16		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	12		13		14		13		12		14		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	11		12		11		10		11		11		IS :15185:2016
4	Enterococcus	/100ml	6		5		6		5		6		5		IS:15186:2002
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:2016
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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Mr. Nitin Tandel
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RESULTS OF SEDIMENT ANALYSIS [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.51	0.48	0.52	0.46	0.51	0.56	IS: 2720 (Part 22):1972
2.	Phosphorus as P	µg/g	578.6	602.4	610.8	598.4	618.4	620.3	IS: 10158 :1982, Method B
3.	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	µg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.12	4.15	4.09	4.12	4.1	4.11	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	µg/g	138.5	132.2	138.4	146.2	134.6	142.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	µg/g	602.5	594.2	576.2	608.4	588.5	602.8	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.11	3.89	3.48	3.69	3.88	4.03	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	µg/g	44.6	42.2	38.9	42.2	44.6	45	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	µg/g	54.2	52.4	49.9	45.8	48.9	48.1	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	µg/g	134	124.2	120.3	115.2	124.3	116.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	µg/g	2.38	2.12	2.09	2.14	2.16	1.95	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	µg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007

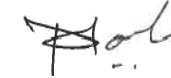
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RESULTS OF SEDIMENT ANALYSIS [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
D			Benthic Organisms						
1	Macrobenthos	--	Polychates	Gastropods	Gastropods	Polychates	Polychates	Polychates	APHA (24th Ed. 2023)10500
			Decapods Larvae	Decapods Larvae	Decapods Larvae	Amphipods	Amphipods	Amphipods	
			Isopods	Isopods	Isopods	Isopods	Isopods	Sipunculids	
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Herpectacoids	Herpectacoids	
2	MeioBenthos	--	Herpectacoids	Herpectacoids	Herpectacoids	Foraminiferan	Foraminiferan	Foraminiferan	
			Turbellarians	Turbellarians	Turbellarians	Turbellarians	Turbellarians	Turbellarians	
3	Population	no/m ²	365	364	366	367	368	367	



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RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.17	7.99	8.24	8.04	8.33	8.12	8.34	8.06	8.27	8.11	8.21	8.02	IS 3025 (Part 11):2022
2.	Temperature	°C	29.9	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.8	29.7	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	136	120	132	114	144	128	126	102	122	110	118	104	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.6	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	3.4	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	6.94	6.73	6.8	6.7	6.72	6.62	6.55	6.45	6.6	6.5	6.47	6.37	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.75	36.81	35.81	36.74	36.08	37.2	36.14	37.35	36.21	37.12	36.34	37.14	By Calculation
7.	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)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	BDL(MDL: 2.0)	IS 3025 (Part 39):2021
8.	Nitrate as NO ₃	μmol/L	3.39	3.06	3.36	2.8	3.23	3.06	3.71	3.55	3.55	3.23	3.39	3.23	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.283	0.261	0.328	0.276	0.326	0.283	0.456	0.435	0.435	0.413	0.413	0.391	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.8	3.69	3.62	3.32	3.69	3.64	4.01	3.9	4.27	4.16	4.27	4.11	APHA 24th Ed. 2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	BDL(MDL: 0.4)	BDL(MDL: 0.4)	1.26	1.16	1.05	BDL(MDL: 0.4)	1.58	1.37	1.16	BDL(MDL: 0.4)	1.16	1.05	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.473	7.011	7.308	6.396	7.246	6.983	8.176	7.885	8.255	7.803	8.073	7.731	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	35460	36710	35190	35960	35210	35850	35490	36310	35410	36280	35480	36310	IS 3025(Part 16):2023
15.	COD	mg/L	20.2	16.2	12.1	8.1	16	12	20.1	16.1	24	20	20.4	16.3	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	2.8	2.7	2.7	2.6	2.6	2.7	2.5	2.6	2.6	2.7	2.7	2.8	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	2.6	1.5	2.7	1.6	2.5	1.5	2.4	1.4	2.3	1.3	2.4	1.2	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	131	119	132	120	133	122	132	121	131	122	132	123	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Dinophysis	Navicula	Odontella	Cyclotella	Cyclotella	Surirella	Odontella	Nitzschia	Odontella	Nitzschia	Odontella	Nitzschia	APHA (24th Ed. 2023)10200A-G
			Pinnularia	Skeletonema	Rhizosolenia	Pinnularia	Pinnularia	Skeletonema	Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	Rhizosolenia	Pinnularia	
			Thalassiothrix	Rhizosolenia	Coscinodiscus	Skeletonema	Thalassiothrix	Rhizosolenia	Coscinodiscus	Odontella	Coscinodiscus	Odontella	Coscinodiscus	Odontella	
			Grammatophora	Dinophysis	Grammatophora	Thalassiosira	Rhizosolenia	Cyclotella	Grammatophora	Dinophysis	Grammatophora	Dinophysis	Pleurosigma	Dinophysis	
			Ceratium	Thalassionema	Thalassiosira	Thalassionema	Ceratium	Thalassionema	Thalassiosira	Surirella	Thalassiosira	Surirella	Thalassiosira	Surirella	

B			Zooplankton						APHA (24rd Ed. 2023)10200 G
1	Abundance (Populati on)	noX10 3/ 100 m3	35	34	33	32	33	31	
2	Name of Group Number and name of group species of each group		<i>Diploneis</i>	<i>Diploneis</i>	<i>Diploneis</i>	<i>Decapoda</i>	<i>Decapoda</i>	<i>Decapoda</i>	
			<i>Rhizosolenia</i>	<i>Rhizosolenia</i>	<i>Rhizosolenia</i>	<i>Copepods</i>	<i>Copepods</i>	<i>Oikoplura</i>	
			<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Nitzschia</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	<i>Crustacean Larvae</i>	
			<i>Thalassiothrix</i>	<i>Coscinodiscus</i>	<i>Coscinodiscus</i>	<i>Crustacean</i>	<i>Crustacean</i>	<i>Bivalve Larvae</i>	
			<i>Pleurosigma</i>	<i>Pleurosigma</i>	<i>Pleurosigma</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	<i>Oikoplura</i>	
3	Total Biomass	ml/100 m³	15.24	15.23	15.22	15.21	15.22	15.21	

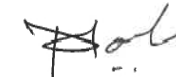
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RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	232		234		236		235		234		234		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	42		41		42		41		42		41		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	30		33		34		33		32		31		IS :15185:2016
4	Enterococcus	/100ml	12		11		12		11		12		11		IS:15186:200 2
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:201 6
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
1.	pH	--	8.21	8.03	8.12	7.95	8.26	8.09	8.21	8.05	8.24	8.08	8.19	8.04	IS 3025 (Part 11):2022
2.	Temperature	°C	30	29.9	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.8	29.7	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	122	90	110	88	114	90	138	110	132	118	126	104	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.7	BDL(MDL :1.0)	3.1	BDL(MDL :1.0)	2.9	BDL(MDL :1.0)	2.8	BDL(MDL :1.0)	2.9	BDL(MDL :1.0)	3.2	BDL(MDL :1.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.84	6.9	6.8	6.82	6.72	6.75	6.65	6.81	6.71	6.66	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.72	36.58	35.62	36.54	35.94	36.82	36.08	37.21	36.14	37.02	36.25	37.14	By Calculation
7.	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)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	BDL(MDL :2.0)	IS 3025 (Part 39):2021
8.	Nitrate as NO ₃	μmol/L	2.74	2.42	3.45	2.8	3.39	3.23	3.55	3.39	3.87	3.71	3.71	3.55	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.413	0.37	0.345	0.276	0.348	0.326	0.413	0.37	0.478	0.456	0.37	0.348	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.9	3.8	3.28	3.1	3.59	3.53	4.06	3.9	4.27	4.16	4.22	4.16	APHA 24th Ed. 2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.37	1.16	1.16	1.05	1.26	1.16	1.26	BDL(MDL :0.4)	1.58	1.47	1.47	1.37	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.053	6.59	7.075	6.176	7.328	7.086	8.023	7.66	8.618	8.326	8.3	8.058	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	APHA 24th ED.2023,5520 F
14.	Total Dissolved Solids	mg/L	35460	36140	35510	36140	35430	36100	35760	36420	35680	36450	35720	36520	IS 3025(Part 16):2023
15.	COD	mg/L	24.3	20.2	16.1	12.1	20	16	24.1	20.1	28	24	24.5	20.4	IS 3025(Part 58):2023

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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	
A			Phytoplankton												
1.	Chlorophyll	mg/m³	2.2	2.3	2.3	2.2	2.4	2.1	2.3	2.1	2.2	2.2	2.1	2.1	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	1.16	1.48	1.17	1.47	1.18	1.46	1.17	1.47	1.18	1.48	1.19	1.49	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	78	133	77	132	76	131	77	132	78	131	77	132	APHA (24th Ed. 2023)10200A-G
4	Name of Group Number and name of group species of each group	--	Ceratium	Melosira	Ceratium	Rhizosolenia	Surirella	Rhizosolenia	Skeletonema	Odontella	Skeletonema	Odontella	Skeletonema	Odontella	APHA (24th Ed. 2023)10200A-G
			Pinnularia	Dinophysis	Pinnularia	Dinophysis	Pinnularia	Dinophysis	Grammatophora	Rhizosolenia	Grammatophora	Rhizosolenia	Grammatophora	Rhizosolenia	
			Odontella	Skeletonema	Odontella	Skeletonema	Grammatophora	Skeletonema	Nitzschia	Coscino discus	Nitzschia	Coscino discus	Nitzschia	Coscino discus	
			Thalassiothrix	Thalassiosira	Thalassiothrix	Thalassiosira	Thalassiothrix	Thalassiosira	Thalassiothrix	Grammatophora	Thalassiothrix	Grammatophora	Coscino discus	Pinnularia	
			Thalassiosira	Thalassionema	Thalassiosira	Melosira	Rhizosolenia	Melosira	Pleurosigma	Thalassiosira	Pleurosigma	Thalassiosira	Pleurosigma	Thalassiosira	
B			Zooplankton												
1	Abundance (Population)	noX10³/ 100 m³	72		73		72		71		72		71		APHA (24rd Ed. 2023)10200 G
2	Name of Group Number and name of group species of each group		Nitzschia		Nitzschia		Nitzschia		Copepods		Copepods		Copepods		
			Grammatophora		Grammatophora		Grammatophora		Oikoplura		Oikoplura		Oikoplura		
			Diploneis		Diploneis		Egg(Fish and Shrimps)		Crustacean Larvae		Crustacean Larvae		Crustacean Larvae		
			Thalassiothrix		Thalassiothrix		Thalassiothrix		Crustacean		Crustacean		Crustacean		
		Pleurosigma		Pleurosigma		Pleurosigma		Bivalve Larvae		Bivalve Larvae		Egg(Fish and Shrimps)			
3	Total Biomass	ml/100 m³	14.56		14.57		14.58		14.57		14.56		14.57		

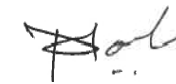
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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

SR. NO	TEST PARAMETER S	UNIT	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		TEST METHOD
			SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM			
C			Microbiological												
1	Total Bacterial Count	CFU/ml	256		51		260		262		264		266		APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100ml	52		43		52		51		50		52		APHA 24thEd.2023, 9222-B
3	E.coli	/100ml	42		33		41		40		41		40		IS :15185:2016
4	Enterococcus	/100ml	32		Absent		34		33		34		33		IS:15186:200 2
5	Salmonella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS:15187:201 6
6	Shigella	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part V):1976



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RESULTS OF ETP OUTLET WATER

SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25		
			24-10-2024	25-11-2024	25-12-2024	24-01-2025	18-02-2025	06-03-2025		
1.	Colour	Pt. Co. Scale	40	50	40	40	40	40	100	IS 3025(Part 4):2021
2.	pH @ 27 ° C	--	7.64	7.28	7.14	7.22	7.34	7.42	6.5 to 8.5	IS 3025(Part 11):2022
3.	Temperature	°C	30	30	29	29	30	30.5	40	IS 3025(Part 9):2023
4.	Total Suspended Solid	mg/L	54	36	18	26	24	36	100	APHA 24th Ed.2023,2540 –D
5.	Total Dissolved Solids	mg/L	648	622	580	628	610	644	2100	APHA 24th Ed.2023,2540- C
6.	COD	mg/L	92.2	88.5	78.4	82.2	86.1	81.2	100	IS 3025(Part 58):2023
7.	BOD (3 days at 27 °C)	mg/L	27	26	23	25	26	24	30	IS 3025(Part 44):2023
8.	Chloride (as Cl) -	mg/L	242.2	262.2	302	280	294	274.5	600	IS 3025(Part 32):1988
9.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	10	IS 3025(Part 39):2021
10.	Sulphate (as SO ₄)	mg/L	42	48	52	26	32	42	1000	IS 3025(Part 24):2022
11.	Ammonical Nitrogen	mg/L	22.2	15.6	19.8	12.1	18.6	22.4	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):2022
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):1992
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 24th Ed.2023,3111-B

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SR.NO.	TEST PARAMETERS	UNIT	LIQUID TERMINAL						GPCB Limit	TEST METHOD
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25		
			24-10-2024	25-11-2024	25-12-2024	24-01-2025	18-02-2025	06-03-2025		
15.	Sulphide as S	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	2	APHA 24th Ed.2023,4500 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 24th Ed.2023,3111-B
17.	Fluoride as F	mg/L	1.91	1.28	0.82	0.45	0.37	0.56	2	APHA 24th Ed.2023,4500 F, D
18.	Residual Chlorine	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)	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
19.	Percent Sodium	%	47.64	47.49	46.15	46.86	46.05	47.13	60	By Calculation
20.	Sodium Absorption ratio	--	3.20	3.2	3.3	3.4	3.1	2.9	26	By Calculation



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

Results of Ambient Air Quality Monitoring

Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	03-10-2024	73.58	29.12	23.37	26.41	1.06	--	NOT DETECTED
2.	07-10-2024	77.65	30.21	24.73	27.14	1.08	4.64	NOT DETECTED
3.	10-10-2024	80.42	31.46	25.08	29.14	1.05	4.59	NOT DETECTED
4.	14-10-2024	83.48	34.81	25.79	30.11	1.09	4.68	NOT DETECTED
5.	17-10-2024	85.13	35.5	26	30.84	1.12	4.74	NOT DETECTED
6.	21-10-2024	81.32	33.98	25.63	29.37	1.16	4.81	NOT DETECTED
7.	24-10-2024	76.59	30.43	23.25	27.51	1.13	4.72	NOT DETECTED
8.	28-10-2024	78.65	31.52	24.36	28.49	1.1	4.86	NOT DETECTED
9.	31-10-2024	81.26	33.54	25.31	29.16	1.11	4.76	NOT DETECTED
10.	04-11-2024	80.73	32.15	25.53	29.37	1.08	4.71	NOT DETECTED
11.	07-11-2024	83.15	34.82	26.48	30.52	1.14	4.86	NOT DETECTED
12.	11-11-2024	79.74	31.93	24.78	28.64	1.11	4.78	NOT DETECTED
13.	14-11-2024	82.37	33.25	25.57	29.48	1.13	4.84	NOT DETECTED
14.	18-11-2024	84.59	36.74	27.15	31.28	1.19	4.91	NOT DETECTED
15.	21-11-2024	81.36	34.89	26.43	30.86	1.15	4.85	NOT DETECTED

Continue...

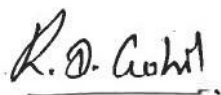
Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	25-11-2024	83.48	35.71	28.16	32.12	1.17	4.78	NOT DETECTED
17.	28-11-2024	80.94	33.47	25.29	29.64	1.14	4.82	NOT DETECTED
18.	02-12-2024	82.18	35.42	27.37	31.84	1.13	4.85	NOT DETECTED
19.	05-12-2024	79.64	34.12	26.31	29.97	1.10	4.73	NOT DETECTED
20.	09-12-2024	76.38	32.85	23.97	28.53	1.07	4.61	NOT DETECTED
21.	12-12-2024	78.16	35.25	24.37	29.13	1.1	4.7	NOT DETECTED
22.	16-12-2024	81.36	36.61	26.78	31.53	1.12	4.75	NOT DETECTED
23.	19-12-2024	84.63	38.05	29.1	34.09	1.16	4.88	NOT DETECTED
24.	23-12-2024	82.49	35.64	27.48	32.26	1.13	4.82	NOT DETECTED
25.	26-12-2024	77.64	32.36	25.84	30.11	1.11	4.75	NOT DETECTED
26.	30-12-2024	80.83	34.28	28.17	32.74	1.14	4.81	NOT DETECTED
27.	02-01-2025	79.85	34.71	26.69	30.84	1.12	--	NOT DETECTED
28.	06-01-2025	81.53	35.94	28.63	33.18	1.15	4.92	NOT DETECTED
29.	09-01-2025	84.69	38.47	31.6	36.47	1.18	5.18	NOT DETECTED
30.	13-01-2025	79.53	35.13	28.26	33.52	1.13	4.86	NOT DETECTED
31.	16-01-2025	83.8	40.38	30.79	35.48	1.16	4.98	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	20-01-2025	78.98	36.62	26.35	31.63	1.15	4.8	NOT DETECTED
33.	23-01-2025	83.47	39.89	30.27	35.72	1.18	4.85	NOT DETECTED
34.	27-01-2025	81.53	37.25	27.74	32.35	1.17	4.73	NOT DETECTED
35.	30-01-2025	84.79	40.91	31.16	36.75	1.21	4.93	NOT DETECTED
36.	03-02-2025	83.26	38.13	29.57	33.91	1.16	4.84	NOT DETECTED
37.	06-02-2025	79.75	34.42	26.37	30.46	1.13	4.71	NOT DETECTED
38.	10-02-2025	81.64	36.19	27.35	32.12	1.14	4.77	NOT DETECTED
39.	13-02-2025	84.15	38.91	30.15	34.68	1.18	4.89	NOT DETECTED
40.	17-02-2025	80.81	35.47	26.89	30.52	1.15	4.68	NOT DETECTED
41.	20-02-2025	82.38	37.25	28.64	31.83	1.17	4.74	NOT DETECTED
42.	24-02-2025	84.58	39.32	30.74	34.2	1.13	4.93	NOT DETECTED
43.	27-02-2025	80.42	36.1	27.42	31.64	1.15	4.82	NOT DETECTED
44.	03-03-2024	81.29	39.12	31.62	35.27	1.15	4.87	NOT DETECTED
45.	06-03-2024	77.94	36.37	27.98	31.75	1.12	4.75	NOT DETECTED
46.	10-03-2024	79.42	37.48	28.74	32.36	1.14	4.82	NOT DETECTED
47.	13-03-2024	82.38	39.71	33.24	37.1	1.17	4.91	NOT DETECTED

Continue...

Name of Location		CT3 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	17-03-2024	76.59	33.94	28.13	33.42	1.15	4.8	NOT DETECTED
49.	20-03-2024	81.24	35.58	31.79	36.21	1.16	4.86	NOT DETECTED
50.	24-03-2024	83.49	38.11	33.78	37.01	1.19	4.96	NOT DETECTED
51.	27-03-2024	78.91	34.78	29.19	33.37	1.15	4.84	NOT DETECTED
52.	31-03-2024	82.35	36.27	32.46	36.95	1.17	4.88	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



Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	03-10-2024	65.38	22.47	18.29	22.73	0.58	--	NOT DETECTED
2.	07-10-2024	69.46	23.83	19.66	24.15	0.62	2.69	NOT DETECTED
3.	10-10-2024	67.42	22.31	18.63	22.53	0.59	2.76	NOT DETECTED
4.	14-10-2024	75.38	24.59	21.37	25.48	0.67	2.83	NOT DETECTED
5.	17-10-2024	72.39	23.64	19.47	23.26	0.62	2.75	NOT DETECTED
6.	21-10-2024	77.52	25.47	22.04	26.53	0.7	2.93	NOT DETECTED
7.	24-10-2024	70.15	23.91	19.11	23.41	0.64	2.78	NOT DETECTED
8.	28-10-2024	73.27	24.68	20.73	24.6	0.66	2.82	NOT DETECTED
9.	31-10-2024	76.42	26.53	21.91	25.73	0.69	2.94	NOT DETECTED
10.	04-11-2024	73.26	24.41	20.15	25.32	0.65	2.87	NOT DETECTED
11.	07-11-2024	76.13	25.32	21.73	27.49	0.71	2.96	NOT DETECTED
12.	11-11-2024	74.39	24.68	20.39	25.11	0.67	2.84	NOT DETECTED
13.	14-11-2024	70.84	23.14	19.83	23.94	0.61	2.76	NOT DETECTED
14.	18-11-2024	73.46	24.17	21.26	25.74	0.64	2.81	NOT DETECTED
15.	21-11-2024	76.18	25.74	23.06	27.34	0.73	2.93	NOT DETECTED

Continue...

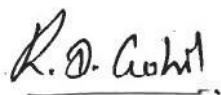
Name of Location		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	25-11-2024	74.38	24.1	22.75	26.15	0.7	2.86	NOT DETECTED
17.	28-11-2024	71.64	23.53	21.37	24.83	0.66	2.82	NOT DETECTED
18.	02-12-2024	75.62	23.47	21.28	25.72	0.7	2.88	NOT DETECTED
19.	05-12-2024	71.28	22.84	20.18	24.11	0.64	2.8	NOT DETECTED
20.	09-12-2024	73.49	23.37	20.72	25.05	0.67	2.83	NOT DETECTED
21.	12-12-2024	78.51	26.36	23.53	27.25	0.72	2.9	NOT DETECTED
22.	16-12-2024	75.24	25.63	22.81	26.42	0.68	2.96	NOT DETECTED
23.	19-12-2024	80.13	27.16	24.31	28.47	0.76	2.91	NOT DETECTED
24.	23-12-2024	77.4	26.08	23.64	27.58	0.71	2.83	NOT DETECTED
25.	26-12-2024	74.38	24.25	21.92	25.31	0.66	2.78	NOT DETECTED
26.	30-12-2024	76.91	27.29	23.35	27.44	0.69	2.81	NOT DETECTED
27.	02-01-2025	79.41	28.32	23.75	26.82	0.72	--	NOT DETECTED
28.	06-01-2025	82.38	29.74	25.48	29.79	0.77	2.94	NOT DETECTED
29.	09-01-2025	84.38	31.05	26.81	30.63	0.7	3.15	NOT DETECTED
30.	13-01-2025	76.87	27.53	23.14	27.36	0.76	2.87	NOT DETECTED
31.	16-01-2025	73.29	25.48	22.85	25.98	0.81	2.81	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	20-01-2025	78.52	28.18	23.79	27.25	0.79	2.92	NOT DETECTED
33.	23-01-2025	81.36	30.67	26.35	30.52	0.85	3.05	NOT DETECTED
34.	27-01-2025	76.46	27.53	24.16	28.27	0.82	2.9	NOT DETECTED
35.	30-01-2025	74.94	25.58	23.47	26.59	0.78	2.83	NOT DETECTED
36.	03-02-2025	75.18	29.32	24.27	28.46	0.75	2.87	NOT DETECTED
37.	06-02-2025	78.91	30.75	25.81	29.17	0.81	2.94	NOT DETECTED
38.	10-02-2025	73.48	26.59	24.75	28.46	0.71	2.81	NOT DETECTED
39.	13-02-2025	76.64	28.25	25.14	29.15	0.77	2.86	NOT DETECTED
40.	17-02-2025	82.38	31.72	28.64	32.07	0.83	2.95	NOT DETECTED
41.	20-02-2025	72.39	26.48	24.56	28.28	0.76	2.84	NOT DETECTED
42.	24-02-2025	76.81	27.98	27.81	31.19	0.8	2.9	NOT DETECTED
43.	27-02-2025	81.26	30.86	28.42	32.15	0.85	2.93	NOT DETECTED
44.	03-03-2024	78.63	27.54	25.13	30.42	0.73	2.83	NOT DETECTED
45.	06-03-2024	80.13	29.71	28.19	32.62	0.79	2.91	NOT DETECTED
46.	10-03-2024	82.3	31.54	29.05	33.91	0.85	2.96	NOT DETECTED
47.	13-03-2024	79.71	28.32	26.83	31.31	0.77	2.81	NOT DETECTED

Continue...

Name of Location		Near Fire Station						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	17-03-2024	75.48	27.19	25.61	29.18	0.72	2.85	NOT DETECTED
49.	20-03-2024	81.32	30.04	27.13	32.42	0.81	2.92	NOT DETECTED
50.	24-03-2024	74.88	28.64	25.86	30.23	0.78	2.79	NOT DETECTED
51.	27-03-2024	72.96	27.41	24.99	28.35	0.73	2.76	NOT DETECTED
52.	31-03-2024	76.59	28.68	26.36	30.21	0.8	2.84	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



Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	03-10-2024	70.81	26.95	21.79	24.69	0.73	--	NOT DETECTED
2.	07-10-2024	72.26	27.85	22.13	25.42	0.77	3.71	NOT DETECTED
3.	10-10-2024	75.14	28.74	23.62	26.47	0.82	3.75	NOT DETECTED
4.	14-10-2024	81.27	31.73	25.86	28.42	0.85	3.82	NOT DETECTED
5.	17-10-2024	77.46	29.94	25.39	29.63	0.79	3.74	NOT DETECTED
6.	21-10-2024	75.81	28.42	23.16	26.42	0.74	3.77	NOT DETECTED
7.	24-10-2024	79.73	30.58	24.49	27.68	0.81	3.85	NOT DETECTED
8.	28-10-2024	84.3	32.68	25.96	29.51	0.84	3.88	NOT DETECTED
9.	31-10-2024	80.53	30.62	24.73	27.32	0.81	3.82	NOT DETECTED
10.	04-11-2024	78.63	29.54	23.37	27.13	0.83	3.81	NOT DETECTED
11.	07-11-2024	80.38	30.47	24.84	28.42	0.87	3.93	NOT DETECTED
12.	11-11-2024	82.16	32.47	26.13	30.64	0.92	3.98	NOT DETECTED
13.	14-11-2024	78.37	29.18	23.15	27.55	0.81	3.86	NOT DETECTED
14.	18-11-2024	80.48	30.72	24.95	28.14	0.85	3.92	NOT DETECTED
15.	21-11-2024	83.26	33.14	26.31	30.18	0.89	4.12	NOT DETECTED

Continue...

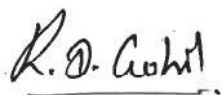
Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	25-11-2024	81.64	32.19	24.37	28.53	0.84	4.03	NOT DETECTED
17.	28-11-2024	79.19	30.63	23.59	27.34	0.82	3.89	NOT DETECTED
18.	02-12-2024	80.45	32.18	24.52	29.41	0.83	3.96	NOT DETECTED
19.	05-12-2024	83.47	35.46	26.93	30.79	0.9	3.97	NOT DETECTED
20.	09-12-2024	81.36	31.93	25.37	30.13	0.85	3.9	NOT DETECTED
21.	12-12-2024	79.55	30.48	23.73	28.15	0.77	3.86	NOT DETECTED
22.	16-12-2024	78.38	29.53	22.98	27.46	0.75	3.76	NOT DETECTED
23.	19-12-2024	83.46	34.8	27.35	32.07	0.86	3.81	NOT DETECTED
24.	23-12-2024	79.91	31.49	25.35	30.72	0.78	3.74	NOT DETECTED
25.	26-12-2024	81.81	33.54	26.28	31.17	0.8	3.79	NOT DETECTED
26.	30-12-2024	83.25	35.74	27.1	32.59	0.87	3.87	NOT DETECTED
27.	02-01-2025	82.63	36.27	27.84	32.13	0.9	--	NOT DETECTED
28.	06-01-2025	76.94	32.15	24.98	29.64	0.81	3.78	NOT DETECTED
29.	09-01-2025	79.83	34.74	26.39	31.46	0.86	3.83	NOT DETECTED
30.	13-01-2025	82.62	37.15	29.73	33.28	0.89	3.91	NOT DETECTED
31.	16-01-2025	84.59	38.35	30.18	34.62	0.93	4.08	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	20-01-2025	80.83	36.46	28.35	33.14	0.84	3.96	NOT DETECTED
33.	23-01-2025	78.42	33.64	26.42	31.26	0.79	3.82	NOT DETECTED
34.	27-01-2025	76.84	32.69	25.94	30.52	0.77	3.75	NOT DETECTED
35.	30-01-2025	80.73	35.47	28.31	33.53	0.85	3.81	NOT DETECTED
36.	03-02-2025	78.51	34.13	28.63	33.26	0.8	3.71	NOT DETECTED
37.	06-02-2025	82.37	37.74	30.49	35.83	0.84	3.83	NOT DETECTED
38.	10-02-2025	72.82	32.74	26.85	31.56	0.75	3.67	NOT DETECTED
39.	13-02-2025	75.48	34.16	26.98	31.72	0.78	3.73	NOT DETECTED
40.	17-02-2025	81.29	36.93	29.91	34.12	0.83	3.85	NOT DETECTED
41.	20-02-2025	84.13	38.36	31.53	36.42	0.87	3.94	NOT DETECTED
42.	24-02-2025	75.49	34.78	26.64	31.72	0.77	3.78	NOT DETECTED
43.	27-02-2025	79.85	36.62	29.14	34.88	0.82	3.72	NOT DETECTED
44.	03-03-2024	83.16	37.62	30.85	34.17	0.88	3.82	NOT DETECTED
45.	06-03-2024	81.39	36.15	27.53	31.46	0.80	3.77	NOT DETECTED
46.	10-03-2024	75.49	33.96	26.13	30.79	0.76	3.7	NOT DETECTED
47.	13-03-2024	78.41	34.57	27.98	32.13	0.82	3.74	NOT DETECTED

Continue...

Name of Location		ADANI PORT – TUG Berth 600 KL Pupm House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	17-03-2024	82.37	35.14	29.75	34.24	0.86	3.8	NOT DETECTED
49.	20-03-2024	85.36	39.11	31.45	36.27	0.91	3.86	NOT DETECTED
50.	24-03-2024	80.71	36.54	27.53	32.47	0.84	3.78	NOT DETECTED
51.	27-03-2024	83.47	37.17	30.35	34.18	0.89	3.83	NOT DETECTED
52.	31-03-2024	79.91	35.27	28.31	32.54	0.78	3.8	NOT DETECTED
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0	---	5.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11



Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	03-10-2024	56.80	22.15	15.77	18.46	0.52	--	NOT DETECTED
2.	07-10-2024	58.63	22.72	16.38	19.62	0.56	1.73	NOT DETECTED
3.	10-10-2024	62.42	23.19	17.42	20.38	0.59	1.77	NOT DETECTED
4.	14-10-2024	59.74	22.52	16.46	19.31	0.53	1.70	NOT DETECTED
5.	17-10-2024	63.27	24.36	17.71	20.88	0.55	1.82	NOT DETECTED
6.	21-10-2024	66.84	26.31	18.25	22.10	0.61	1.88	NOT DETECTED
7.	24-10-2024	68.61	26.77	18.69	22.36	0.63	1.94	NOT DETECTED
8.	28-10-2024	63.28	25.11	16.52	19.83	0.57	1.85	NOT DETECTED
9.	31-10-2024	66.17	26.32	17.39	20.42	0.60	1.97	NOT DETECTED
10.	04-11-2024	64.18	24.84	15.93	19.31	0.61	1.93	NOT DETECTED
11.	07-11-2024	67.27	26.18	17.26	20.64	0.64	2.18	NOT DETECTED
12.	11-11-2024	69.81	28.26	18.15	22.37	0.70	2.31	NOT DETECTED
13.	14-11-2024	65.48	27.62	17.13	21.53	0.67	2.15	NOT DETECTED
14.	18-11-2024	63.21	24.92	16.83	20.42	0.64	2.06	NOT DETECTED
15.	21-11-2024	66.38	25.46	17.53	21.72	0.68	2.14	NOT DETECTED

Continue...

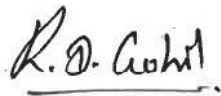
Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	25-11-2024	63.40	24.84	16.46	20.34	0.60	2.03	NOT DETECTED
17.	28-11-2024	65.37	25.19	17.11	20.75	0.66	2.10	NOT DETECTED
18.	02-12-2024	67.14	26.53	16.32	20.17	0.64	2.06	NOT DETECTED
19.	05-12-2024	70.37	28.84	17.78	21.43	0.68	2.19	NOT DETECTED
20.	09-12-2024	72.62	29.91	18.24	22.48	0.71	2.31	NOT DETECTED
21.	12-12-2024	67.36	26.84	16.60	20.51	0.67	2.27	NOT DETECTED
22.	16-12-2024	70.41	28.47	17.49	21.37	0.69	2.34	NOT DETECTED
23.	19-12-2024	73.39	28.72	18.83	22.55	0.73	2.37	NOT DETECTED
24.	23-12-2024	65.45	25.84	15.91	19.32	0.66	2.26	NOT DETECTED
25.	26-12-2024	68.42	26.38	17.24	21.84	0.70	2.30	NOT DETECTED
26.	30-12-2024	66.18	25.97	16.59	20.45	0.67	2.23	NOT DETECTED
27.	02-01-2025	70.52	25.92	18.13	23.35	0.68	--	NOT DETECTED
28.	06-01-2025	66.58	27.51	17.52	21.89	0.65	2.46	NOT DETECTED
29.	09-01-2025	64.48	24.61	16.94	21.13	0.63	2.31	NOT DETECTED
30.	13-01-2025	68.26	26.81	17.59	22.64	0.68	2.58	NOT DETECTED
31.	16-01-2025	71.53	27.14	18.53	23.28	0.72	2.62	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	20-01-2025	75.49	29.42	19.39	25.03	0.76	2.68	NOT DETECTED
33.	23-01-2025	73.49	28.10	18.53	23.74	0.73	2.6	NOT DETECTED
34.	27-01-2025	68.58	26.35	16.84	21.53	0.68	2.48	NOT DETECTED
35.	30-01-2025	71.24	27.51	17.46	23.58	0.72	2.54	NOT DETECTED
36.	03-02-2025	72.71	26.18	17.65	22.11	0.65	2.52	NOT DETECTED
37.	06-02-2025	76.42	28.53	19.42	24.35	0.68	2.57	NOT DETECTED
38.	10-02-2025	78.64	29.35	19.97	25.17	0.70	2.64	NOT DETECTED
39.	13-02-2025	69.53	25.93	17.11	22.64	0.63	2.55	NOT DETECTED
40.	17-02-2025	66.81	24.76	16.99	22.19	0.62	2.49	NOT DETECTED
41.	20-02-2025	70.61	26.53	17.84	23.15	0.66	2.57	NOT DETECTED
42.	24-02-2025	74.58	28.46	19.54	24.63	0.72	2.65	NOT DETECTED
43.	27-02-2025	68.75	25.11	16.79	21.36	0.68	2.59	NOT DETECTED
44.	03-03-2024	67.53	23.47	15.93	19.72	0.64	2.46	NOT DETECTED
45.	06-03-2024	70.23	25.74	18.13	22.45	0.66	2.51	NOT DETECTED
46.	10-03-2024	73.46	27.91	19.20	23.42	0.71	2.48	NOT DETECTED
47.	13-03-2024	68.63	23.58	16.24	20.63	0.68	2.55	NOT DETECTED

Continue...

Name of Location		PUB / Adani House						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	17-03-2024	65.48	23.91	15.97	19.63	0.64	2.45	NOT DETECTED
49.	20-03-2024	70.13	25.85	16.36	20.11	0.72	2.57	NOT DETECTED
50.	24-03-2024	74.36	27.54	18.69	22.65	0.75	2.6	NOT DETECTED
51.	27-03-2024	72.91	25.86	17.64	21.91	0.70	2.53	NOT DETECTED
52.	31-03-2024	76.14	27.88	19.16	23.45	0.74	2.57	NOT DETECTED
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0	---	5.0
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11



Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

Results of Ambient Air Quality Monitoring

Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
1.	03-10-2024	70.41	24.22	17.65	20.97	0.60	--	NOT DETECTED
2.	07-10-2024	72.38	24.95	18.06	22.24	0.63	3.68	NOT DETECTED
3.	10-10-2024	75.48	26.15	19.14	23.51	0.62	3.74	NOT DETECTED
4.	14-10-2024	78.74	28.45	19.88	23.93	0.67	3.79	NOT DETECTED
5.	17-10-2024	74.39	26.37	18.54	22.48	0.65	3.72	NOT DETECTED
6.	21-10-2024	76.59	27.79	19.36	23.41	0.68	3.81	NOT DETECTED
7.	24-10-2024	81.26	29.19	20.58	24.72	0.72	3.87	NOT DETECTED
8.	28-10-2024	77.64	28.37	19.93	23.32	0.67	3.80	NOT DETECTED
9.	31-10-2024	75.24	26.44	18.26	21.57	0.68	3.82	NOT DETECTED
10.	04-11-2024	76.29	26.83	19.14	23.31	0.69	3.78	NOT DETECTED
11.	07-11-2024	78.63	27.28	19.93	23.78	0.71	3.83	NOT DETECTED
12.	11-11-2024	80.64	28.13	20.58	24.63	0.76	3.89	NOT DETECTED
13.	14-11-2024	84.38	30.62	22.13	26.48	0.82	3.96	NOT DETECTED
14.	18-11-2024	82.47	29.63	21.15	25.24	0.78	3.91	NOT DETECTED
15.	21-11-2024	75.47	26.39	19.28	23.74	0.73	3.81	NOT DETECTED

Continue...

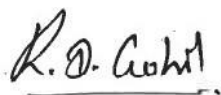
Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
16.	25-11-2024	79.75	27.48	20.26	24.35	0.79	3.90	NOT DETECTED
17.	28-11-2024	76.18	26.91	19.74	23.19	0.71	3.84	NOT DETECTED
18.	02-12-2024	78.16	27.53	21.87	25.43	0.74	3.81	NOT DETECTED
19.	05-12-2024	81.35	28.74	22.46	27.11	0.78	3.89	NOT DETECTED
20.	09-12-2024	83.29	30.61	23.75	27.94	0.84	3.97	NOT DETECTED
21.	12-12-2024	77.45	27.49	21.36	25.17	0.75	3.82	NOT DETECTED
22.	16-12-2024	75.47	26.89	20.07	24.58	0.72	3.76	NOT DETECTED
23.	19-12-2024	78.52	28.69	21.40	25.55	0.76	3.80	NOT DETECTED
24.	23-12-2024	81.48	31.34	23.63	27.19	0.81	3.85	NOT DETECTED
25.	26-12-2024	75.37	27.53	19.97	24.48	0.73	3.77	NOT DETECTED
26.	30-12-2024	77.19	28.32	20.41	26.13	0.77	3.82	NOT DETECTED
27.	02-01-2025	80.53	31.48	23.61	27.17	0.85	--	NOT DETECTED
28.	06-01-2025	76.49	28.53	22.28	25.83	0.77	3.87	NOT DETECTED
29.	09-01-2025	74.92	27.73	21.69	26.14	0.75	3.76	NOT DETECTED
30.	13-01-2025	78.59	29.17	23.42	27.26	0.80	3.92	NOT DETECTED
31.	16-01-2025	81.64	31.75	25.48	29.06	0.84	4.12	NOT DETECTED

Continue...

Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
32.	20-01-2025	84.38	33.51	26.30	30.64	0.87	4.18	NOT DETECTED
33.	23-01-2025	79.47	28.64	23.14	27.53	0.78	3.97	NOT DETECTED
34.	27-01-2025	82.37	31.78	24.57	28.49	0.84	4.07	NOT DETECTED
35.	30-01-2025	84.39	32.91	26.37	30.72	0.90	4.16	NOT DETECTED
36.	03-02-2025	83.16	32.75	26.38	31.29	0.91	3.97	NOT DETECTED
37.	06-02-2025	80.73	30.82	23.84	28.61	0.84	3.89	NOT DETECTED
38.	10-02-2025	82.37	31.58	24.14	29.46	0.81	3.84	NOT DETECTED
39.	13-02-2025	77.95	28.64	23.91	27.87	0.79	3.80	NOT DETECTED
40.	17-02-2025	81.38	32.16	25.12	30.45	0.85	3.94	NOT DETECTED
41.	20-02-2025	79.64	30.24	24.86	28.74	0.82	3.84	NOT DETECTED
42.	24-02-2025	84.63	34.85	26.57	31.65	0.90	3.92	NOT DETECTED
43.	27-02-2025	81.05	32.48	25.62	30.18	0.86	3.87	NOT DETECTED
44.	03-03-2024	80.91	30.83	28.13	32.46	0.85	4.13	NOT DETECTED
45.	06-03-2024	84.36	33.57	30.24	34.83	0.94	4.27	NOT DETECTED
46.	10-03-2024	78.37	29.96	28.74	33.15	0.81	4.03	NOT DETECTED
47.	13-03-2024	81.63	30.98	29.64	32.89	0.88	4.15	NOT DETECTED

Continue...

Name of Location		CT-4 RMU-2						
Sr. No.	Date of Monitoring	Parameter with Results						
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	HC µg/m ³	Benzene µg/m ³
48.	17-03-2024	83.29	34.57	31.51	35.64	0.92	4.23	NOT DETECTED
49.	20-03-2024	85.91	36.21	34.01	38.46	0.97	4.37	NOT DETECTED
50.	24-03-2024	81.63	34.79	30.27	34.68	0.84	4.20	NOT DETECTED
51.	27-03-2024	83.37	36.13	32.41	36.32	0.89	4.12	NOT DETECTED
52.	31-03-2024	84.89	32.42	33.56	37.54	0.85	4.26	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



Rajnish D. Gohil
(Chemist)



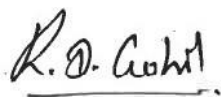

Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring							
Location Name		CT3 RMU-2					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		14-10-2024	14-11-2024	12-12-2024	13-01-2025	13-02-2025	13-03-2025
1	06:00 to 07:00	63.3	63.8	62.5	63.5	61.9	60.8
2	07:00 to 08:00	65.1	64.3	63.8	62.7	64.7	63.4
3	08:00 to 09:00	64.3	65.7	65.1	63.7	64.2	65.7
4	09:00 to 10:00	64.7	65.9	64.3	66.4	64.3	66.3
5	10:00 to 11:00	65.8	66.7	65.7	67.8	66.7	67.4
6	11:00 to 12:00	68.5	65.8	67.3	65.6	65.8	66.8
7	12:00 to 13:00	67.1	68.3	65.4	67.3	67.2	67.3
8	13:00 to 14:00	68.3	67.5	66.3	65.2	66.4	67.1
9	14:00 to 15:00	64.2	66.4	64.8	65.8	67.5	66.4
10	15:00 to 16:00	65.4	64.8	63.6	64.5	66.5	65.7
11	16:00 to 17:00	68.2	67.5	65.1	64.3	63.4	64.5
12	17:00 to 18:00	67.4	65.8	64.3	65.8	62.8	65.1
13	18:00 to 19:00	67.1	66.3	65.4	62.3	64.6	66.3
14	19:00 to 20:00	65.5	63.2	65.8	63.7	64.1	64.5
15	20:00 to 21:00	65.4	65.7	63.2	64.1	62.3	63.1
16	21:00 to 22:00	62.8	63.4	62.4	62.3	61.8	62.3
Day Time		<75 dB (A)					

Continue...

Location Name		CT3 RMU-2					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) – Night Time					
		14-10-2024	14-11-2024	12-12-2024	13-01-2025	13-02-2025	13-03-2025
1	22:00 to 23:00	63.5	63.2	61.5	60.8	61.3	60.5
2	23:00 to 24:00	62.4	63.7	62.8	61.4	60.7	62.3
3	24:00 to 01:00	64.5	65.1	64.3	60.7	61.5	62.7
4	01:00 to 02:00	63.4	64.8	65.7	62.4	61.8	61.6
5	02:00 to 03:00	65.4	63.5	64.3	62.8	62.4	63.8
6	03:00 to 04:00	63.2	64.3	62.3	63.7	63.7	61.5
7	04:00 to 05:00	62.9	63.4	64.1	61.4	61.3	62.3
8	05:00 to 06:00	62.5	61.8	62.3	59.8	59.1	59.1
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981
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Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

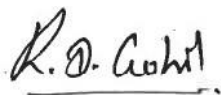
Results of Noise Level Monitoring

Location Name		Near Fire Station					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		07-10-2024	07-11-2024	05-12-2024	06-01-2025	06-02-2025	06-03-2025
1	06:00 to 07:00	62.6	63.2	64.5	62.3	60.5	62.2
2	07:00 to 08:00	65.4	64.7	63.2	62.9	63.1	62.8
3	08:00 to 09:00	67.4	65.3	66.4	66.1	62.8	64.5
4	09:00 to 10:00	64.3	66.6	65.3	65.8	64.5	63.6
5	10:00 to 11:00	66.3	64.3	64.1	63.4	67.1	66.1
6	11:00 to 12:00	68.3	67.5	66.3	66.8	64.3	65.6
7	12:00 to 13:00	68.9	68.1	67.4	65.4	64.8	64.2
8	13:00 to 14:00	66.7	66.4	65.4	65.1	63.2	65.8
9	14:00 to 15:00	64.8	65.7	64.8	65.5	64.7	66.4
10	15:00 to 16:00	66.3	64.8	66.5	66.8	66.4	65.9
11	16:00 to 17:00	66.3	67.2	65.4	66.3	64.3	65.1
12	17:00 to 18:00	67.1	66.3	64.3	65.2	63.1	64.3
13	18:00 to 19:00	65.9	64.3	65.1	65.8	64.3	63.8
14	19:00 to 20:00	62.8	64.3	62.3	64.2	62.9	63.5
15	20:00 to 21:00	64.2	64.6	60.7	63.5	65.1	64.2
16	21:00 to 22:00	62.6	61.8	62.1	63.1	61.3	60.4
Day Time		<75 dB (A)					

Continue...

Location Name		Near Fire Station					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		07-10-2024	07-11-2024	05-12-2024	06-01-2025	06-02-2025	06-03-2025
1	22:00 to 23:00	63.6	62.5	61.5	62.3	63.5	61.4
2	23:00 to 24:00	61.7	62.7	61.3	64.8	63.1	62.8
3	24:00 to 01:00	63.5	61.4	63.8	62.8	62.8	64.3
4	01:00 to 02:00	62.8	63.7	62.5	63.7	63.4	62.7
5	02:00 to 03:00	64.5	64.3	64.2	62.5	63.7	62.5
6	03:00 to 04:00	63.1	64.7	63.5	62.4	61.8	63.1
7	04:00 to 05:00	60.8	63.1	61.8	60.3	60.5	60.5
8	05:00 to 06:00	61.3	61.6	59.8	61.6	60.3	60.1
Night Time		<70 dB (A)					

Test Method	IS: 9989 : 1981
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Rajnish D. Gohil
(Chemist)



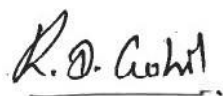

Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring							
Location Name		ADANI PORT – TUG Berth 600 KL Pump House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		10-10-2024	11-11-2024	09-12-2024	09-01-2025	10-02-2025	10-03-2025
1	06:00 to 07:00	61.5	61.1	60.8	59.9	57.7	57.3
2	07:00 to 08:00	63.2	64.5	62.5	60.3	61.4	59.6
3	08:00 to 09:00	64.8	66.8	63.7	65.1	62.8	60.2
4	09:00 to 10:00	66.8	65.4	62.5	64.3	65.7	64.5
5	10:00 to 11:00	68.1	67.3	66.4	65.7	64.3	65.8
6	11:00 to 12:00	67.3	68.3	65.3	64.2	66.1	64.3
7	12:00 to 13:00	65.4	65.4	66.3	66.1	64.3	65.7
8	13:00 to 14:00	67.1	66.7	67.1	67.9	65.8	64.3
9	14:00 to 15:00	66.2	66.3	65.4	64.3	63.2	65.7
10	15:00 to 16:00	68.1	67.5	65.7	65.3	64.8	64.2
11	16:00 to 17:00	64.8	65.7	66.3	65.1	66.1	66.7
12	17:00 to 18:00	65.3	66.1	65.8	66.7	65.4	63.4
13	18:00 to 19:00	66.4	65.3	61.7	62.4	63.8	64.9
14	19:00 to 20:00	64.3	65.8	64.5	65.4	64.7	64.3
15	20:00 to 21:00	62.5	63.5	62.8	62.9	61.3	60.5
16	21:00 to 22:00	63.4	63.1	61.7	60.8	58.6	59.2
Day Time		<75 dB (A)					

Continue...

Location Name		ADANI PORT – TUG Berth 600 KL Pump House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		10-10-2024	11-11-2024	09-12-2024	09-01-2025	10-02-2025	10-03-2025
1	22:00 to 23:00	60.1	61.3	62.7	61.4	60.9	58.7
2	23:00 to 24:00	63.2	63.5	64.3	62.8	61.4	60.4
3	24:00 to 01:00	62.3	64.5	63.5	63.4	62.4	61.8
4	01:00 to 02:00	64.7	65.2	63.2	64.5	62.7	63.4
5	02:00 to 03:00	64.1	63.8	65.1	63.2	64.1	64.1
6	03:00 to 04:00	62.7	62.6	64.3	65.1	64.3	62.4
7	04:00 to 05:00	63.4	64.1	63.2	62.3	62.7	61.8
8	05:00 to 06:00	60.2	62.4	61.6	62.4	61.5	58.7
Day Time		<70 dB (A)					

Test Method	IS: 9989 : 1981
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Rajnish D. Gohil
(Chemist)



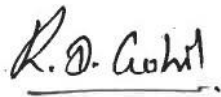

Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring							
Location Name		PUB/Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time					
		03-10-2024	04-11-2024	02-12-2024	02-01-2025	03-02-2025	03-03-2025
1	06:00 to 07:00	63.2	62.7	62.2	63.5	63.9	61.4
2	07:00 to 08:00	60.7	61.4	62.8	64.2	63.4	64.3
3	08:00 to 09:00	59.4	58.4	64.7	65.5	64.7	63.8
4	09:00 to 10:00	61.3	61.8	62.8	64.1	65.1	65.1
5	10:00 to 11:00	65.4	64.7	66.3	64.8	64.8	64.3
6	11:00 to 12:00	64.8	65.3	63.6	65.7	67.3	66.3
7	12:00 to 13:00	67.4	67.3	65.8	66.2	65.4	67.2
8	13:00 to 14:00	64.3	65.8	66.2	65.8	64.7	65.8
9	14:00 to 15:00	62.5	62.3	67.5	64.7	63.4	64.5
10	15:00 to 16:00	64.8	62.4	64.3	67.4	65.2	65.8
11	16:00 to 17:00	65.5	64.8	63.7	65.9	66.4	67.1
12	17:00 to 18:00	64.1	63.7	65.1	66.3	65.8	62.3
13	18:00 to 19:00	61.3	61.6	62.4	64.5	66.1	64.7
14	19:00 to 20:00	64.6	63.2	64.1	62.8	64.3	65.2
15	20:00 to 21:00	63.3	62.8	62.3	60.4	62.5	62.5
16	21:00 to 22:00	60.3	60.6	59.8	60.2	58.7	58.7
Day Time		<75 dB (A)					

Continue...

Location Name		PUB/Adani House					
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time					
		03-10-2024	04-11-2024	02-12-2024	02-01-2025	03-02-2025	03-03-2025
1	22:00 to 23:00	60.3	60.7	63.2	61.8	61.2	59.8
2	23:00 to 24:00	62.3	63.4	61.8	61.4	62.7	61.3
3	24:00 to 01:00	64.3	63.7	62.4	64.3	63.5	61.5
4	01:00 to 02:00	63.2	64.1	63.7	62.8	64.8	64.2
5	02:00 to 03:00	62.8	65.4	62.5	63.5	62.3	63.7
6	03:00 to 04:00	60.4	63.2	64.7	63.2	62.6	61.3
7	04:00 to 05:00	62.3	62.9	63.1	62.7	61.8	59.7
8	05:00 to 06:00	60.6	59.7	61.3	60.4	59.5	58.8
Day Time		<70 dB (A)					

Test Method	IS: 9989 : 1981
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Rajnish D. Gohil
(Chemist)



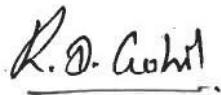

Jaivik S. Tandel
(Manager - Operations)

Results of Noise Level Monitoring						
Location Name		CT-4 RMU-2				
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Day Time				
		19-10-2024	26-11-2024	21-12-2024	21-01-2025	22-02-2025
1	06:00 to 07:00	62.3	62.6	64.1	63.8	63.2
2	07:00 to 08:00	64.5	61.9	64.3	65.4	66.2
3	08:00 to 09:00	65.4	63.5	62.8	66.8	64.8
4	09:00 to 10:00	66.1	64.8	65.6	64.8	65.7
5	10:00 to 11:00	64.7	67.5	67.8	65.2	67.4
6	11:00 to 12:00	65.6	67.3	65.4	67.8	67.2
7	12:00 to 13:00	66.2	68.4	67.5	67.2	65.4
8	13:00 to 14:00	67.2	64.2	66.9	66.4	65.7
9	14:00 to 15:00	65.4	65.7	64.3	65.8	63.4
10	15:00 to 16:00	66.9	68.4	66.9	65.7	65.1
11	16:00 to 17:00	65.4	66.7	65.2	67.3	66.8
12	17:00 to 18:00	66.2	64.3	66.4	65.9	66.2
13	18:00 to 19:00	64.3	65.8	67.8	65.2	63.5
14	19:00 to 20:00	64.7	62.6	64.3	63.5	64.5
15	20:00 to 21:00	63.5	65.3	62.8	64.1	63.4
16	21:00 to 22:00	63.1	62.9	63.1	61.5	62.6
Day Time		<75 dB (A)				

Continue...

Location Name		CT-4 RMU-2				
Sr. No.	Sampling Date and Time	Noise Level Leq. dB(A) - Night Time				
		19-10-2024	26-11-2024	21-12-2024	21-01-2025	22-02-2025
1	22:00 to 23:00	62.3	61.9	61.3	62.5	61.8
2	23:00 to 24:00	63.5	64.2	63.2	62.4	63.6
3	24:00 to 01:00	66.4	64.8	61.8	63.7	64.7
4	01:00 to 02:00	64.3	65.1	64.7	62.5	63.2
5	02:00 to 03:00	65.8	63.8	62.7	64.5	62.8
6	03:00 to 04:00	64.3	62.7	63.5	63.1	63.5
7	04:00 to 05:00	62.1	63.4	61.3	60.8	61.5
8	05:00 to 06:00	61.5	61.5	60.4	61.4	61.1
Day Time		<70 dB (A)				

Test Method	IS: 9989 : 1981
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Rajnish D. Gohil
(Chemist)

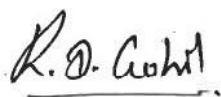



Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring								
Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
Oct-24								
1	Particulate Matter	mg/Nm ³	22.15	21.39	22.17	20.19	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.81	7.37	8.29	7.61	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.12	22.81	20.41	18.85	50	IS 11255 (Part - 7)
Nov-24								
1	Particulate Matter	mg/Nm ³	21.96	20.79	21.84	19.11	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.26	6.89	8.15	7.45	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	20.85	21.74	19.17	18.97	50	IS 11255 (Part - 7)
Dec-24								
1	Particulate Matter	mg/Nm ³	21.28	21.54	22.48	18.86	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.00	6.73	8.09	7.13	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	19.94	20.96	19.26	19.21	50	IS 11255 (Part - 7)
Jan-25								
1	Particulate Matter	mg/Nm ³	20.85	22.19	21.11	19.10	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	6.90	6.81	7.95	7.36	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	18.79	21.07	19.28	19.13	50	IS 11255 (Part - 7)

Continue...

Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
Feb-25								
1	Particulate Matter	mg/Nm ³	21.63	19.83	20.96	19.83	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.13	6.15	7.64	7.59	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	19.24	20.18	18.95	20.18	50	IS 11255 (Part - 7)
Mar-25								
1	Particulate Matter	mg/Nm ³	21.19	20.23	20.13	19.25	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.42	6.57	8.11	7.41	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	20.61	21.14	19.39	20.48	50	IS 11255 (Part - 7)



Rajnish D. Gohil
(Chemist)

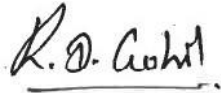



Jaivik S. Tandel
(Manager - Operations)

Results of Stack Monitoring								
Sr. No	Parameter	Unit	D.G. Set-6, 7 & 8 (1250 KVA - CT2) Common Stack	D.G. Set-9 (1500 KVA - CT3)	D.G. Set-10 (1500 KVA - CT3)	D.G. Set-11 (1500 KVA - CT3)	GPC B LIMI T	Method of Test
			Mar-25					
			19-03-2025	17-03-2025	17-03-2025	17-03-2025		
1	Particulate Matter	mg/Nm ³	27.15	19.31	22.53	20.36	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	11.32	15.69	16.11	15.72	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	23.58	27.32	29.63	24.91	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	4.19	4.1	3.6	3.5	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27
Sr. No	Parameter	Unit	D.G. Set-12 (1500 KVA) - CT4	D.G. Set-13 (1500 KVA) - CT4	D.G. Set-14 (1500 KVA) - CT4	D.G. Set-1 (500 KVA) - DG House - MPT	GPC B LIMI T	Method of Test
			Mar-25					
			18-03-2025	18-03-2025	18-03-2025	19-03-2025		
1	Particulate Matter	mg/Nm ³	23.81	29.14	21.95	25.26	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	9.42	10.67	9.65	9.7	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	21.38	25.3	19.47	31.13	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.8	4.88	4.2	3.47	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27

Continue...

Sr. No .	Parameter	Unit	D.G. Set-2 (500 KVA) - DG House - MPT	D.G. Set-3 (500 KVA) - DG House - MPT	D.G. Set-4 (500 KVA) - DG House - MPT	D.G. Set-5 (500 KVA) - DG House - MPT	GPC B LIMIT	Method of Test
			Mar-25					
			19-03-2025	26-03-2025	26-03-2025	26-03-2025		
1	Particulate Matter	mg/Nm³	28.53	23.96	28.15	22.46	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO₂	ppm	8.42	10.16	9.37	9.68	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NOₓ	ppm	34.07	29.74	32.12	29.21	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.97	4.77	4.64	3.85	--	UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected	--	UERL/AIR/SOP/27



Rajnish D. Gohil
(Chemist)




Jaivik S. Tandel
(Manager - Operations)

RESULTS OF BORE HOLE WATER

SR.NO.	TEST PARAMETERS	UNIT	Pump House-1	Pump House-2	Pump House-3	Near Unloading bays	Near ETP	TEST METHOD
			05-03-2025	05-03-2025	05-03-2025	05-03-2025	05-03-2025	
1.	pH @ 25 ° C	--	8.18	7.16	8.22	7.46	8.24	IS 3025(Part 11):2022
2.	Salinity	ppt	3.4	1	1.1	1.2	1.3	APHA 24th Ed.,2023,2520 B
3.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	IS 3025(Part 39):2021
4.	Hydrocarbon	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	GC/GCMS
5.	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)	IS 3025 (PART 47) 1994
6.	Arsenic as As	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	APHA 24th Ed.,2023,3114-C
7.	Nickel as Ni	mg/L	0.084	0.068	0.079	0.086	0.092	IS 3025 (PART 54) 2003
8.	Total Chromium as Cr	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	IS 3025 (PART 52) 2003
9.	Cadmium as Cd	mg/L	0.038	0.028	0.031	0.026	0.038	IS 3025(PART 41) 1992
10.	Mercury as Hg	mg/L	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	APHA 24th Ed.,2023, 3112-B
11.	Zinc as Zn	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	IS 3025(PART 49) 1994
12.	Copper as Cu	mg/L	0.068	0.062	0.086	0.082	0.111	IS 3025 (PART 42) 1992
13.	Iron as Fe	mg/L	BDL(MDL:0.1)	0.242	0.386	0.588	0.143	IS 3025(PART 53) 2003
14.	Insecticides/Pesticides	µg/L	Absent	Absent	Absent	Absent	Absent	USEPA 8081 B
15.	Depth of Water Level from Ground Level	meter	1.9	2.1	2.1	2.2	2.1	--



Mr. Nilesh Patel
Sr. Chemist




Mr. Nitin Tandel
Technical Manager

Minimum Detection Limit

Ambient Air Quality Monitoring

Sr. No.	Test Parameter	Unit	MDL
1	Particulate Matter (PM10)	µg/m ³	5 µg/m ³
2	Particulate Matter (PM2.5)	µg/m ³	5 µg/m ³
3	Sulphur Dioxide (SO ₂)	µg/m ³	4 µg/m ³
4	Nitrogen Dioxide (NO ₂)	µg/m ³	5 µg/m ³
5	Carbon Monoxide (CO)	mg/m ³	0.01 mg/m ³
6	Ammonia (NH ₃)	µg/m ³	5 µg/m ³
7	Ozone (O ₃)	µg/m ³	5 µg/m ³
8	Lead (Pb)	µg/m ³	0.5 µg/m ³
9	Nickle (Ni)	ng/m ³	1 ng/m ³
10	Arsenic (As)	ng/m ³	1 ng/m ³
11	Benzene	µg/m ³	1µg/m ³
12	Benzo(o)Pyrene	ng/m ³	0.1 ng/m ³
14	Hydro Carbon	µg/m ³	1 µg/m ³

Stack Emission Monitoring

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

ETP Water

Sr. No.	Test Parameter	Unit	MDL
1	Colour	Pt. Co. Scale	5
2	pH @ 27 ° C	--	2
3	Temperature	0C	5
4	Total Suspended Solids	mg/L	4
5	Total Dissolved Solids	mg/L	4
6	COD	mg/L	2
7	BOD (3 days at 27 0C)	mg/L	1
8	Chloride (as Cl) -	mg/L	1
9	Oil & Grease	mg/L	4
10	Sulphate (as SO4)	mg/L	1
11	Ammonical Nitrogen	mg/L	5
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	--	--

MARINE WATER			
Sr. No.	Test Parameter	Unit	MDL
1	pH	--	5
2	Temperature	oC	5
3	Total Suspended Solids	mg/L	4
4	BOD (3 Days @ 27oC)	mg/L	1
5	Dissolved Oxygen	mg/L	0.2
6	Salinity	ppt	0.01
7	Oil & Grease	mg/L	2
8	Nitrate as NO ₃	μmol/L	0.4
9	Nitrite as NO ₂	μmol/L	0.04
10	Ammonical Nitrogen as NH ₃	μmol/L	0.8
11	Phosphates as PO ₄	μmol/L	0.4
12	Total Nitrogen	μmol/L	2.2
13	Petroleum Hydrocarbon	μg/L	0.1
14	Total Dissolved Solids	mg/L	4
15	COD	mg/L	2

Sea SEDIMENT			
Sr. No.	Test Parameter	Unit	MDL
1	Organic Matter	%	0.5
2	Phosphorus as P	µg/g	1
3	Texture	--	--
4	Petroleum Hydrocarbon	µg/g	0.1
5	Aluminum as Al	%	0.1
6	Total Chromium as Cr+3	µg/g	2
7	Manganese as Mn	µg/g	1
8	Iron as Fe	%	0.1
9	Nickel as Ni	µg/g	1
10	Copper as Cu	µg/g	1
11	Zinc as Zn	µg/g	1
12	Lead as Pb	µg/g	1
13	Mercury as Hg	µg/g	0.05

BORE HOLE WATER			
Sr. No.	Test Parameter	Unit	MDL
1	pH @ 25 ° C	--	5
2	Salinity	ppt	--
3	Oil & Grease	mg/L	2
4	Hydrocarbon	mg/L	0.1
5	Lead as Pb	mg/L	0.01
6	Arsenic as As	mg/L	0.01
7	Nickel as Ni	mg/L	0.02
8	Total Chromium as Cr	mg/L	0.05
9	Cadmium as Cd	mg/L	0.003
10	Mercury as Hg	mg/L	0.001
11	Zinc as Zn	mg/L	0.05
12	Copper as Cu	mg/L	0.05
13	Iron as Fe	mg/L	0.1
14	Insecticides/Pesticides	µg/L	0.1
15	Depth of Water Level from Ground Level	meter	--

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited
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ANNEXURE – 3
Details of Waste Management of APSEZ, Mundra

Sr. No.	Waste Description	Disposal Method	Unit	Quantity 2023-24	Quantity 2024-25
Non-Hazardous:					
1.	Dry Waste (Recyclable waste-Metal, Wood, paper, plastic etc.)	Recycle (send to reg. recycler)/ Reuse (Used by Org.)	MT	3312.775	4274.89
2.	RDF (Non-Recyclable)	Co-processing at cement plant	MT	451.28	337.3
3.	STP Sludge	Reprocess (Manure)	MT	3	0
4.	Organic Waste (included food waste)	Reprocess & Recovery Manure/biogas	MT	959.35	1101.12
5.	E-Waste	Recycle (send to reg. recycler)	MT	44.83	28.08
6.	Battery Waste	Recycle (send to reg. recycler)	MT	19.89	3.04
Hazardous:					
1.	ETP Sludge:	Co-processing	MT	5.68	5.0
2.	Pig Waste:	Co-processing/Incineration	MT	12.39	15.02
3.	Oily Cotton Waste:	Co-processing/Incineration	MT	110.04	63.49
4.	Used Oil:	Recycle (send to recycler)	MT	155.781	238.375
5.	Discarded Containers:	Recycle (send to recycler)	MT	5.32	NIL
6.	Glass Wool:	Land Fill (send to CHWDF)	MT	NIL	NIL

Environment Statement for 2024-25 for M/s Adani Ports & SEZ Limited
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ANNEXURE-4

Cost of Environmental Protection Measures of APSEZ, Mundra
F.Y. 2024 - 25

Sr. No.	Activity	Cost incurred (INR in Lacs)		Budgeted Cost (INR in Lacs)
		2023 - 24	2024 - 25	2024 - 25
1.	Environmental Study / Audit and Consultancy	22.67	40.46	27
2.	Legal & Statutory Expenses	8.60	17.37	13
3.	Environmental Monitoring Services	13.37	17.27	19.20
4.	Hazardous / Non-Hazardous Waste Management & Disposal	130.11	122.46	172.40
5.	Environment Days Celebration and Advertisement / Business development	3.42	1.85	4.00
6.	Treatment and Disposal of Bio-Medical Waste	2.28	2.39	2.28
7.	Mangrove Plantation, Monitoring & Conservation	15	0	0
8.	Other Horticulture Expenses	904	570	831
9.	O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant)	186.94	164.31	195.41
10.	Expenditure of Environment Dept. (Apart from above head)	80.39	93.40	75.92
Total		1366.78	1029.51	1340.21