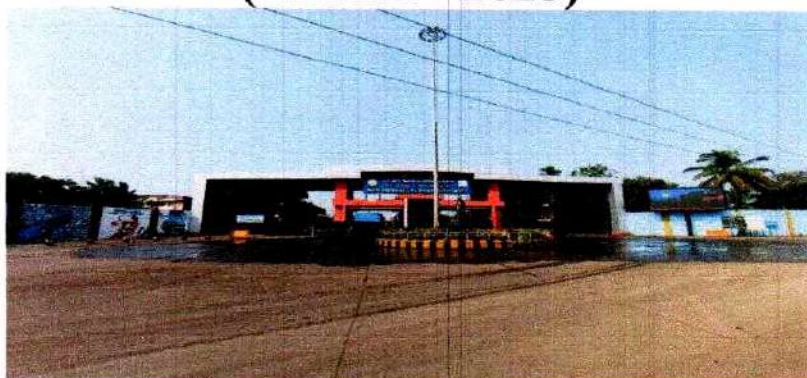


ENVIRONMENTAL MONITORING REPORT

(APRIL - 2025)



Submitted To:
NEW MANGALORE PORT AUTHORITY
Govt. of India
(Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka



Submitted By:
Arihant Analytical Laboratory Pvt. Ltd.
272, Phase-IV, Sector-57, HSIIDC,
Kundli, Dist. Sonapat, (Haryana)
Email: aalkundli@gmail.com
(Recognized by NABL & MOEF&CC, Government of India)

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(April-2025)

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**Details of Sampling at M/s New Mangalore Port Authority, Mangalore, Karnataka
(April-2025)**

S/N	Sample Description & Locations	Date of Sampling
(I)	AMBIENT AIR – ONCE A MONTH	
1	U S Mallya Gate (Main Gate)	09/04/2025
2	Oil Jetty Area Near IMC Terminal	09/04/2025
3	Old Coastal Guard Office/SJ Gate	10/04/2025
4	VTMS Port Control	10/04/2025
5	NMPA Hospital	14/04/2025
(II)	AMBIENT AIR – TWICE A WEEK	
1	Scanner Yard	03/04/2025, 07/04/2025, 10/04/2025, 14/04/2025, 17/04/2025, 21/04/2025, 24/04/2025, 28/04/2025
2	Railway Yard	03/04/2025, 07/04/2025, 10/04/2025, 14/04/2025, 17/04/2025, 21/04/2025, 24/04/2025, 28/04/2025
3	KK Gate	03/04/2025, 07/04/2025, 10/04/2025, 14/04/2025, 17/04/2025, 21/04/2025, 24/04/2025, 28/04/2025
(III)	AMBIENT NOISE	
1	US Mallya Gate (Main Gate)	21/04/2025
2	Wharf Berth (Inside)	22/04/2025
3	Administration Office Building	24/04/2025
4	JNC Hall in the Port Colony	25/04/2025
5	Container Yard	28/04/2025
6	Wharf Canteen	29/04/2025
(IV)	STACK EMISSION – D G SETS	
1	33 KV MUSS - (11KV, 1000 KVA-1)	D G Set Was Not Running
2	33 KV MUSS - (11KV, 1000 KVA-2)	D G Set Was Not Running
3	VTMS - (415V, 125 KVA)	D G Set Was Not Running
4	ESD-V - (415V, 500 KVA-1)	D G Set Was Not Running
5	ESD-V - (415V, 500 KVA-2)	D G Set Was Not Running
6	Colony Substation - (415V, 500 KVA)	D G Set Was Not Running
7	Container Scanner Yard - (415V, 62.5 KVA)	D G Set Was Not Running
8	AO Building - (415V, 100 KVA)	D G Set Was Not Running
9	AO Building - (415V, 500 KVA)	D G Set Was Not Running
10	ESD-II Wharf - (415V, 500 KVA)	D G Set Was Not Running
11	BDC NMPA - (415V, 250 KVA)	D G Set Was Not Running

**Details of Sampling at M/s New Mangalore Port Authority, Mangalore, Karnataka
(April 2025)**

S/N	Sample Description & Locations	Date of Sampling
(V)	STACK EMISSION – PUMP SETS	
1	Fire Pump House No.1 (Berth No.10) - 450 HP – Monitor Pump	Pump Set Was Not Running
2	Fire Pump House No.1 (Berth No.10)- 700 HP – Hydrant Pump	Pump Set Was Not Running
3	Fire Pump House No.2 (Berth No.11 and 12) -890 HP – Hydrant Pump	Pump Set Was Not Running
4	Fire Pump House No.2 (Berth No.11 and 12) -890 HP – Hydrant Pump	Pump Set Was Not Running
5	Fire Pump House No.2 (Berth No.11 and 12) -890 HP – Hydrant Pump	Pump Set Was Not Running
6	Fire Pump House No.2 (Berth No.11 and 12) -890 HP – Hydrant Pump	Pump Set Was Not Running
7	Fire Pump House No.3 (Berth No.13) -890 HP – Monitor Pump No.1	Pump Set Was Not Running
8	Fire Pump House No.3 (Berth No.13) -890 HP – Monitor Pump No.2	Pump Set Was Not Running
9	Fire Pump House No.3 (Berth No.13) -890 HP – Monitor Pump No.3	Pump Set Was Not Running
10	Fire Pump House No.3 (Berth No.13) -600 HP – Hydrant Pump No.1	Pump Set Was Not Running
11	Fire Pump House No.3 (Berth No.13) -600 HP – Hydrant Pump No.2	Pump Set Was Not Running
12	Fire Pump House No.3 (Berth No.13) -600 HP – Hydrant Pump No.3	Pump Set Was Not Running
13	Fire Pump House No.3 (Berth No.13) -600 HP – Hydrant Pump No.4	Pump Set Was Not Running
14	Fire Pump House No.3 (Berth No.13) -600 HP – Hydrant Pump No.5	Pump Set Was Not Running
15	Booster Pump House (Berth No.13) -52 HP – Foam Pump	Pump Set Was Not Running
16	Booster Pump House (Berth No.13) - 300 HP – Booster Pump	Pump Set Was Not Running
(VI)	MARINE WATER	
1	EDA - Eastern Dock Arm	10/04/2025
2	BL - Base Line (Upto 800m West)	10/04/2025
3	WDA - Western Dock Arm	10/04/2025
4	ODA - Oil Dock Arm (Diaphragm Jetty)	10/04/2025
5	LA - Lagoon Area (Turning Circle)	10/04/2025
(VII)	STP WATER	
1	Slop Reception Treatment Plant (Oil Separator) - SRTP at Wharf	24/04/2025
2	1.2 MLD SBR Technology STP - Near KK Gate NMPA Mangalore	24/04/2025

AMBIENT AIR
QUALITY MONITORING
REPORTS



(ONCE A MONTH - FIVE LOCATIONS)

- 1. U S MALLYA GATE**
- 2. OIL JETTY AREA NEAR IMC TERMINAL**
- 3. OLD COASTAL GUARD OFFICE/SJ GATE**
- 4. VTMS PORT CONTROL**
- 5. NMPA HOSPITAL**



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TEST REPORT

Page 1 of 1

Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 09/04/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: U S Mallya Gate (Main Gate)

Report No. AAL ENV-20250414059

Date of Reporting: 19/04/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs.

Sampling Done By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	40.6	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	76.9	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	15.3	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	30.7	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.81	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	25.7	100 (8 Hrs.)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	BLQ (LOQ=20.0)	400	IS 5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-2023
9	Nickel (as Ni)	ng/ m ³	BLQ (LOQ=1.0)	20	AAL/SOP/ENV/008-2023
10	Arsenic (as As)	ng/m ³	BLQ (LOQ=1.0)	06	AAL/SOP/ENV/008-2023
11	Benzene (as C ₆ H ₆)	µg/m ³	BLQ (LOQ=5.0)	05	AAL/SOP/ENV/019-2022
12	Banzo a-pyrene (BaP)	ng/m ³	BLQ (LOQ=1.0)	01	AAL/SOP/ENV/018-2022

NAAQS-National Ambient Air Quality Standard
BLQ-Below Limit of Quantification, LOQ- Limit of Quantification
Sample Analyzed within seven days from the date of sampling.

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager

Authorised Signatory

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Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 09/04/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: Oil Jetty Area Near IMC Terminal

Report No. AAL ENV-20250414060

Date of Reporting: 19/04/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs.

Sampling Done By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	42.5	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	75.3	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	12.6	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	24.9	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.84	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	29.6	100 (8 Hrs.)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	BLQ (LOQ=20.0)	400	IS 5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-2023
9	Nickel (as Ni)	ng/m ³	BLQ (LOQ=1.0)	20	AAL/SOP/ENV/008-2023
10	Arsenic (as As)	ng/m ³	BLQ (LOQ=1.0)	06	AAL/SOP/ENV/008-2023
11	Benzene (as C ₆ H ₆)	µg/m ³	BLQ (LOQ=5.0)	05	AAL/SOP/ENV/019-2022
12	Benzo a-pyrene (BaP)	ng/m ³	BLQ (LOQ=1.0)	01	AAL/SOP/ENV/018-2022

NAAQS-National Ambient Air Quality Standard
BLQ-Below Limit of Quantification, LOQ= Limit of Quantification
Sample Analyzed within seven days from the date of sampling.

****End of Report****


ASHUTOSH SRIVASTAVA
Density Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 10/04/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: Old Coastal Guard Office/ SJ Gate

Report No. AAL ENV-20250414061

Date of Reporting: 19/04/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs.

Sampling Done By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	41.6	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	68.5	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	13.1	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	26.9	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.65	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	21.4	100 (8 Hrs.)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	BLQ (LOQ=20.0)	400	IS 5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-2023
9	Nickel (as Ni)	ng/ m ³	BLQ (LOQ=1.0)	20	AAL/SOP/ENV/008-2023
10	Arsenic (as As)	ng/m ³	BLQ (LOQ=1.0)	06	AAL/SOP/ENV/008-2023
11	Benzene (as C ₆ H ₆)	µg/m ³	BLQ (LOQ=5.0)	05	AAL/SOP/ENV/019-2022
12	Banzo a-pyrene (BaP)	ng/m ³	BLQ (LOQ=1.0)	01	AAL/SOP/ENV/018-2022

NAAQS=National Ambient Air Quality Standard
BLQ= Below Limit of Quantification, LOQ= Limit of Quantification
Sample Analyzed within seven days from the date of sampling.

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager

Authorised Signatory

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Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 10/04/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: VTMS Port Control

Report No. AAL ENV-20250414062

Date of Reporting: 19/04/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs.

Sampling Done By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	43.7	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	80.5	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	14.3	80	IS 5182(P-2/Sec-I)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	26.9	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.75	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	26.4	100 (8 Hrs.)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	BLQ (L.O.Q = 20.0)	400	IS 5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	BLQ (L.O.Q = 0.1)	01	AAL/SOP/ENV/008-2023
9	Nickel (as Ni)	ng/ m ³	BLQ (L.O.Q = 1.0)	20	AAL/SOP/ENV/008-2023
10	Arsenic (as As)	ng/m ³	BLQ (L.O.Q = 1.0)	06	AAL/SOP/ENV/008-2023
11	Benzene (as C ₆ H ₆)	µg/m ³	BLQ (L.O.Q = 5.0)	05	AAL/SOP/ENV/019-2022
12	Banzo a-pyrene (BaP)	ng/m ³	BLQ (L.O.Q = 1.0)	01	AAL/SOP/ENV/018-2022

NAAQS=National Ambient Air Quality Standard
BLQ= Below Limit of Quantification, LOQ= Limit of Quantification
Sample Analyzed within seven days from the date of sampling.

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Issued To: M/s New Mangalore Port Authority
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Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 14/04/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: NMPA Hospital

Report No. AAL ENV-20250417076

Date of Reporting: 22/04/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs.

Sampling Done By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	36.5	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	65.4	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	12.8	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	20.9	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.72	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	27.7	100 (8 Hrs.)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	BLQ (LOQ=20.0)	400	IS 5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-2023
9	Nickel (as Ni)	ng/m ³	BLQ (LOQ=1.0)	20	AAL/SOP/ENV/008-2023
10	Arsenic (as As)	ng/m ³	BLQ (LOQ=1.0)	06	AAL/SOP/ENV/008-2023
11	Benzene (as C ₆ H ₆)	µg/m ³	BLQ (LOQ=5.0)	05	AAL/SOP/ENV/019-2022
12	Benzo a-pyrene (BaP)	ng/m ³	BLQ (LOQ=1.0)	01	AAL/SOP/ENV/018-2022

NAAQS-National Ambient Air Quality Standard
BLQ-Below Limit of Quantification, LOQ- Limit of Quantification
Sample Analyzed within seven days from the date of sampling

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager

Authorised Signatory

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AMBIENT AIR
QUALITY MONITORING
REPORTS



(TWIC A WEEK - THREE LOCATIONS)

- 1. SCANNER YARD**
- 2. RAILWAY YARD**
- 3. KK GATE**



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TEST REPORT

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Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Sampling Frequency: Twice a Week (Monthly)

Sampling Location: Scanner Yard

Report No. AAL ENV-20250501021

Date of Reporting: 06/05/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs

Sampling Done By: AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	O ₃ (µg/m ³)	NH ₃ (µg/m ³)	Pb (µg/m ³)	As (ng/m ³)	Ni (ng/m ³)	C ₆ H ₆ (µg/m ³)	B(a)P (ng/m ³)
1 03/04/2025	45.7	72.8	13.7	28.3	0.85	30.8	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
2 07/04/2025	42.4	69.9	14.5	26.7	0.78	26.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
3 10/04/2025	40.8	71.3	10.9	24.7	0.65	28.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
4 14/04/2025	44.7	68.3	15.2	28.4	0.86	24.7	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 17/04/2025	48.1	76.5	16.7	26.2	0.65	30.4	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
6 21/04/2025	41.8	79.4	15.2	28.3	0.82	30.7	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 24/04/2025	46.7	80.5	18.4	26.9	0.74	26.3	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 28/04/2025	49.2	82.9	13.9	23.2	0.79	28.1	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
NAAQ Standard	60	100	80	80	2	100	400	1	6	20	5	1
Test Methods	IS 5182 (P-24) 2019	IS 5182 (P-23) 2006	IS 5182 (P-2/ Sec-1) 2023	IS 5182 (P-6) 2006	IS 5182 (P-10) 1999	IS 5182 (P-9) 1974	IS 5182 (P-25) 2018	AAL/SO P/ENV/0 08-2023	AAL/SO P/ENV/0 08-2023	AAL/SO P/ENV/0 08-2023	AAL/SOP /ENV/019 -2022	AAL/SOP/ ENV/018- 2022
NAAQS= National Ambient Air Quality Standard, BLQ= Below Limit of Quantification, LOQ= Limit of Quantification Sample Analyzed within seven days from the date of sampling.												

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager

Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Sampling Frequency: Twice a Week (Monthly)

Sampling Location: Railway Yard

Report No. AAL ENV-20250501022

Date of Reporting: 06/05/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs

Sampling Done By: AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	O ₃ (µg/m ³)	NH ₃ (µg/m ³)	Pb (µg/m ³)	As (ng/m ³)	Ni (ng/m ³)	C ₆ H ₆ (µg/m ³)	B(a)P (ng/m ³)
1 03/04/2025	42.7	83.9	14.5	30.3	0.65	26.4	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
2 07/04/2025	45.1	78.5	12.9	25.8	0.69	25.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
3 10/04/2025	44.3	81.8	16.7	28.1	0.81	28.9	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
4 14/04/2025	46.2	85.3	11.4	29.6	0.75	26.1	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 17/04/2025	43.7	76.2	12.8	25.3	0.85	28.4	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
6 21/04/2025	40.2	74.5	14.1	27.4	0.78	26.9	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 24/04/2025	41.9	80.3	12.2	24.5	0.75	23.6	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 28/04/2025	44.3	78.9	15.4	26.8	0.72	25.3	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
NAAQ Standard	60	100	80	80	2	100	400	1	6	20	5	1
Test Methods	IS 5182 (P-24) 2019	IS 5182 (P-23) 2006	IS 5182 (P-2/ Sec-1) 2023	IS 5182 (P-6) 2006	IS 5182 (P-10) 1999	IS 5182 (P-9) 1974	IS 5182 (P-25) 2018	AAL/SO P/ENV/0 08-2023	AAL/SO P/ENV/0 08-2023	AAL/SO P/ENV/0 08-2023	AAL/SOP /ENV/019 -2022	AAL/SOP/ ENV/018- 2022
NAAQS= National Ambient Air Quality Standard, BLQ= Below Limit of Quantification, LOQ= Limit of Quantification Sample Analyzed within seven days from the date of sampling.												

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Sampling Frequency: Twice a Week (Monthly)

Sampling Location: KK Gate

Report No. AAL ENV-20250501023

Date of Reporting: 06/05/2025

Sampling Method: IS:5182 (Part-14)-2000

Sampling Duration: 24:00 Hrs

Sampling Done By: AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	O ₃ (µg/m ³)	NH ₃ (µg/m ³)	Pb (µg/m ³)	As (ng/m ³)	Ni (ng/m ³)	Cd/Hg (µg/m ³)	B(a)P (ng/m ³)
1 03/04/2025	43.8	87.2	18.5	27.3	0.85	30.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
2 07/04/2025	46.7	84.3	14.8	25.3	0.76	26.7	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
3 10/04/2025	49.5	89.7	16.2	25.1	0.92	31.4	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
4 14/04/2025	52.1	86.5	15.4	26.9	0.82	28.6	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 17/04/2025	45.8	82.6	13.8	32.6	0.95	25.9	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
6 21/04/2025	50.3	91.4	17.7	30.1	0.86	27.4	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 24/04/2025	41.9	82.5	19.2	28.7	0.91	34.5	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 28/04/2025	47.6	78.9	14.5	30.2	0.85	29.1	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
NAAQ Standard	60	100	80	80	2	100	400	1	6	20	5	1
Test Methods	IS 5182 (P-24) 2019	IS 5182 (P-23) 2006	IS 5182 (P-2/ Sec-1) 2023	IS 5182 (P-6) 2006	IS 5182 (P-10) 1999	IS 5182 (P-9) 1974	IS 5182 (P-25) 2018	AAL/SO P/ENV/0 08-2023	AAL/SO P/ENV/0 08-2023	AAL/SO P/ENV/0 08-2023	AAL/SOP /ENV/019 -2022	AAL/SOP/ ENV/018- 2022
NAAQS - National Ambient Air Quality Standard, BLQ - Below Limit of Quantification, LOQ - Limit of Quantification Sample Analyzed within seven days from the date of sampling.												

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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**AMBIENT NOISE
QUALITY MONITORING
REPORTS**



(ONCE A MONTH - SIX LOCATIONS)

- 1. U S MALLYA GATE (MAIN GATE)**
- 2. WHARF BERTH (INSIDE)**
- 3. ADMINISTRATION OFFICE COLONY**
- 4. JNC HALL IN THE PORT COLONY**
- 5. CONTAINER YARD**
- 6. WHARF CANTEEN**



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TEST REPORT

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Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Noise

Date of Monitoring: 21/04/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: US Mallya Gate (Main Gate)

Report No. AAL ENV-20250424005

Date of Receiving: 24/04/2025

Date of Starting: 24/04/2025

Date of Completion: 28/04/2025

Date of Reporting: 28/04/2025

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Area Code	Category of Area / Zone	Day Time (6AM-10PM) Night Time (10PM-6AM)
1	Noise Level					
	Leq-Day	dB(A)	62.5	(A)	Industrial Area	75 70
				(B)	Commercial Area	65 55
	Leq-Night	dB(A)	51.2	(C)	Residential Area	55 45
				(D)	Silence Zone	50 40

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Noise

Date of Monitoring: 22/04/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: Wharf Berth (Inside)

Report No. AAL ENV-20250424006

Date of Receiving: 24/04/2025

Date of Starting: 24/04/2025

Date of Completion: 28/04/2025

Date of Reporting: 28/04/2025

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Area Code	Category of Area / Zone	Night Time (10PM-6AM)
1	Noise Level					
	Leq-Day	dB(A)	57.4	(A)	Industrial Area	70
				(B)	Commercial Area	55
	Leq-Night	dB(A)	45.8	(C)	Residential Area	45
				(D)	Silence Zone	40

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Noise

Date of Monitoring: 24/04/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: Administrative Office Building

Report No. AAL ENV-20250428051

Date of Receiving: 28/04/2025

Date of Starting: 28/04/2025

Date of Completion: 30/04/2025

Date of Reporting: 30/04/2025

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Area Code	Category of Area / Zone	Night Time (10PM-6AM)
1	Noise Level					
	Leq-Day	dB(A)	56.4	(A)	Industrial Area	75
				(B)	Commercial Area	65
	Leq-Night	dB(A)	46.3	(C)	Residential Area	55
				(D)	Silence Zone	50

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager

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Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Noise

Date of Monitoring: 25/04/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: JNC Hall in the Port Colony

Report No. AAL ENV-20250428052

Date of Receiving: 28/04/2025

Date of Starting: 28/04/2025

Date of Completion: 30/04/2025

Date of Reporting: 30/04/2025

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Area Code	Category of Area / Zone	Night Time (10PM-6AM)
1	Noise Level					
	Leq-Day	dB(A)	55.8	(A)	Industrial Area	75
				(B)	Commercial Area	65
	Leq-Night	dB(A)	46.3	(C)	Residential Area	55
				(D)	Silence Zone	50

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager

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Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Noise

Date of Monitoring: 28/04/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: Container Yard

Report No. AAL ENV-20250501024

Date of Receiving: 01/05/2025

Date of Starting: 01/05/2025

Date of Completion: 05/05/2025

Date of Reporting: 05/05/2025

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.			
				Area Code	Category of Area / Zone	Day Time (6AM-10PM)	Night Time (10PM-6AM)
1	Noise Level						
	Leq-Day	dB(A)	63.2	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	54.9	(C)	Residential Area	55	45
				(D)	Silence Zone	50	40

****End of Report****

ASHUTOSH SRIVASTAVA
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Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore - 575 010, Karnataka

Sample Description: Ambient Noise

Date of Monitoring: 25/04/2025

Sampling Duration: 29:00 Hrs.

Sampling Location: Wharf Canteen

Report No. AAL ENV-20250501025

Date of Receiving: 01/05/2025

Date of Starting: 01/05/2025

Date of Completion: 05/05/2025

Date of Reporting: 05/05/2025

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Area Code	Category of Area / Zone	Day Time (6AM-10PM) Night Time (10PM-6AM)
1	Noise Level					
	Leq-Day	dB(A)	58.6	(A)	Industrial Area	75 70
				(B)	Commercial Area	65 55
	Leq-Night	dB(A)	47.3	(C)	Residential Area	55 45
				(D)	Silence Zone	50 40

End of Report

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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MARINE WATER

REPORTS



(ONCE A MONTH - FIVE LOCATIONS)

- 1. EDA- EASTERN DOCK ARM**
- 2. BL- BASE LINE (UPTO 800M WEST)**
- 3. WDA- WESTERN DOCK ARM**
- 4. ODA-OIL DOCK ARM (DIAPHRAGM JETTY)**
- 5. LA-LAGOON AREA (TURNING CIRCLE)**



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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)

Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com

Website : www.aalkundli.com

TEST REPORT

Page 1 of 1

Issued To: M/s New Mangalore Port Authority
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Report No. AAL WQT-20250414012

Date of Receiving: 14/04/2025

Date of Starting: 14/04/2025

Date of Completion: 21/04/2025

Date of Reporting: 21/04/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

Sample Description: Water Sample (Marine Water)

Sample Collection Date: 10/04/2025

Sample Location: EDA - Eastern Dock Arm

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.36	IS 3025(P-11)-2022
2	Total Suspended Solids	mg/l	BLQ(LOQ=2.0)	IS 3025(P-17)-2022
3	Total Dissolved Solids	mg/l	28522.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	3.2	IS 3025(P-10)-2023
5	Nitrate (as NO ₃)	mg/l	1.95	IS 3025(P-34/Sec-1)-2023
6	Magnesium (as Mg)	mg/l	1166.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	682.0	IS 3025(P-24/Sec-1)-2022
8	Oil & Grease	mg/l	BLQ(LOQ=2.0)	IS 3025(P-39)-2021
9	Dissolved Oxygen (DO)	mg/l	6.4	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.31	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	584.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7244.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	302.0	IS 3025(P-2)-2019
14	Nitrite (as NO ₂)	mg/l	BLQ(LOQ=0.005)	IS 3025(P-34/Sec-1)-2023
15	Phosphate (as P)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-31/Sec-1)-2022
16	Silica (as SiO ₂)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-35)-1988
17	Total Solids	mg/l	28522.0	IS 3025(P-15)-1984
18	Total Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
19	Organic Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
20	Faecal Coliform	MPN/100ml	<2.0	IS:1622-1981

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report****

Vidya Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager

Authorised Signatory

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Panambur, Mangalore - 575 010, Karnataka

Report No. AAL WQT-20250414013

Date of Receiving: 14/04/2025

Date of Starting: 14/04/2025

Date of Completion: 21/04/2025

Date of Reporting: 21/04/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

Sample Description: Water Sample (Marine Water)

Sample Collection Date: 10/04/2025

Sample Location: BL - Base Line (Upto 800m West)

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.38	IS 3025(P-11)-2022
2	Total Suspended Solids	mg/l	BLQ(LOQ=2.0)	IS 3025(P-17)-2022
3	Total Dissolved Solids	mg/l	27520.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	2.7	IS 3025(P-10)-2023
5	Nitrate (as NO ₃)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
6	Magnesium (as Mg)	mg/l	1076.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	653.0	IS 3025(P-24/Sec-1)-2022
8	Oil & Grease	mg/l	BLQ(LOQ=2.0)	IS 3025(P-39)-2021
9	Dissolved Oxygen (DO)	mg/l	6.2	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.25	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	512.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	6932.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	295.0	IS 3025(P-2)-2019
14	Nitrite (as NO ₂)	mg/l	BLQ(LOQ=0.005)	IS 3025(P-34/Sec-1)-2023
15	Phosphate (as P)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-31/Sec-1)-2022
16	Silica (as SiO ₂)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-35)-1988
17	Total Solids	mg/l	27520.0	IS 3025(P-15)-1984
18	Total Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
19	Organic Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
20	Faecal Coliform	MPN/100ml	<2.0	IS:1622-1981

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Panambur, Mangalore – 575 010, Karnataka

Sample Description: Water Sample (Marine Water)

Sample Collection Date: 10/04/2025

Sample Location: WDA - Western Dock Arm

Report No. AAL WQT-20250414014

Date of Receiving: 14/04/2025

Date of Starting: 14/04/2025

Date of Completion: 21/04/2025

Date of Reporting: 21/04/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.30	IS 3025(P-11)-2022
2	Total Suspended Solids	mg/l	BLQ(LOQ=2.0)	IS 3025(P-17)-2022
3	Total Dissolved Solids	mg/l	27836.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	2.9	IS 3025(P-10)-2023
5	Nitrate (as NO ₃)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
6	Magnesium (as Mg)	mg/l	1098.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	662.0	IS 3025(P-24/Sec-1)-2022
8	Oil & Grease	mg/l	BLQ(LOQ=2.0)	IS 3025(P-39)-2021
9	Dissolved Oxygen (DO)	mg/l	6.4	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.27	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	529.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7032.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	298.0	IS 3025(P-2)-2019
14	Nitrite (as NO ₂)	mg/l	BLQ(LOQ=0.005)	IS 3025(P-34/Sec-1)-2023
15	Phosphate (as P)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-31/Sec-1)-2022
16	Silica (as SiO ₂)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-35)-1988
17	Total Solids	mg/l	27836.0	IS 3025(P-15)-1984
18	Total Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
19	Organic Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
20	Faecal Coliform	MPN/100ml	<2.0	IS:1622-1981

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report*****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Sample Description: Water Sample (Marine Water)

Sample Collection Date: 10/04/2025

Sample Location: ODA - Oil Dock Arm (Diaphragm Jetty)

Report No. AAL WQT-20250414015

Date of Receiving: 14/04/2025
Date of Starting: 14/04/2025
Date of Completion: 21/04/2025
Date of Reporting: 21/04/2025
Sample Quantity: 2 Litre
Sample Packing Condition: Sealed Packed Bottle
Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.26	IS 3025(P-11)-2022
2	Total Suspended Solids	mg/l	BLQ(LOQ=2.0)	IS 3025(P-17)-2022
3	Total Dissolved Solids	mg/l	29042.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	3.7	IS 3025(P-10)-2023
5	Nitrate (as NO ₃)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
6	Magnesium (as Mg)	mg/l	1327.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	857.0	IS 3025(P-24/Sec-1)-2022
8	Oil & Grease	mg/l	BLQ(LOQ=2.0)	IS 3025(P-39)-2021
9	Dissolved Oxygen (DO)	mg/l	6.7	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.29	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	492.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7428.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	382.0	IS 3025(P-2)-2019
14	Nitrite (as NO ₂)	mg/l	BLQ(LOQ=0.005)	IS 3025(P-34/Sec-1)-2023
15	Phosphate (as P)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-31/Sec-1)-2022
16	Silica (as SiO ₂)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-35)-1988
17	Total Solids	mg/l	29042.0	IS 3025(P-15)-1984
18	Total Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
19	Organic Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
20	Faecal Coliform	MPN/100ml	<2.0	IS:1622-1981

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report*****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
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Sample Description: Water Sample (Marine Water)

Sample Collection Date: 10/04/2025

Sample Location: LA - Lagoon Area (Turning Circle)

Report No. AAL WQT-20250414016

Date of Receiving: 14/04/2025

Date of Starting: 14/04/2025

Date of Completion: 21/04/2025

Date of Reporting: 21/04/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.30	IS 3025(P-11)-2022
2	Total Suspended Solids	mg/l	BLQ(LOQ=2.0)	IS 3025(P-17)-2022
3	Total Dissolved Solids	mg/l	29524.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	3.9	IS 3025(P-10)-2023
5	Nitrate (as NO ₃)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
6	Magnesium (as Mg)	mg/l	1398.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	882.0	IS 3025(P-24/Sec-1)-2022
8	Oil & Grease	mg/l	BLQ(LOQ=2.0)	IS 3025(P-39)-2021
9	Dissolved Oxygen (DO)	mg/l	6.8	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.30	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	480.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7329.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	344.0	IS 3025(P-2)-2019
14	Nitrite (as NO ₂)	mg/l	BLQ(LOQ=0.005)	IS 3025(P-34/Sec-1)-2023
15	Phosphate (as P)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-31/Sec-1)-2022
16	Silica (as SiO ₂)	mg/l	BLQ(LOQ=0.02)	IS 3025(P-35)-1988
17	Total Solids	mg/l	29524.0	IS 3025(P-15)-1984
18	Total Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
19	Organic Nitrogen (as N)	mg/l	BLQ(LOQ=1.0)	IS 3025(P-34/Sec-1)-2023
20	Faecal Coliform	MPN/100ml	<2.0	IS:1622-1981

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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STP WATER

REPORTS



(ONCE A MONTH - TWO LOCATIONS)

- 1. SLOP RECEPTION TREATMENT PLANT
(OIL SEPARATOR) - SRTP AT WHARF**
- 2. 1.2 MLD SBR TECHNOLOGY STP - NEAR KK GATE**



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Report No. AAL WQT-20250428034

Date of Receiving: 28/04/2025

Date of Starting: 28/04/2025

Date of Completion: 05/05/2025

Date of Reporting: 05/05/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

Sample Description: Water Sample (SRTP Waste Water)

Sample Collection Date: 24/04/2025

Sample Source: Slop Reception Treatment Plant (Oil Separator)

Sample Location: SRTP at Wharf

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per KSPCB Standard	Test Methods
1	Colour	Hazen	<5.0	All efforts should be made to remove colour and unpleasant odour as far as practicable.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	All efforts should be made to remove colour and unpleasant odour as far as practicable.	IS 3025(P-5)-2018
3	pH Value	-	7.48	6.5 - 9.0	IS 3025(P-11)-2022
4	Conductivity at 25°C	µmhos/cm	1720	NS	IS 3025(P-14)-2013
5	Total Dissolved Solids	mg/l	1570.0	2100 Max.	IS 3025 (P-16)-2023
6	Total Suspended Solids	mg/l	16.0	20 Max.	IS 3025(P-17)-2022
7	Oil & Grease	mg/l	BLQ(LOQ=2.0)	10 Max.	IS 3025(P-39)-2021
8	Dissolved Oxygen (DO)	mg/l	4.1	NS	IS 3025 (P-38)-1989
9	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	9.4	10 Max.	IS 3025(P-44)-2023
10	Chemical Oxygen Demand (COD)	mg/l	48.6	50 Max.	IS 3025(P-58)-2023
11	Total Nitrogen (as N)	mg/l	8.2	10 Max.	IS 3025(P-34/Sec-1)-2023
12	Ammonical Nitrogen (as NH ₃ -N)	mg/l	2.6	5 Max.	IS 3025(P-34/Sec-1)-2023
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BLQ(LOQ=0.1)	1 Max.	IS 3025(P-43/Sec-1)-2022
14	Faecal Coliform	MPN/100ml	60	100 Max.	IS:1622-1981

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification
NS=Not Specified

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Report No. AAL WQT-20250428035

Date of Receiving: 28/04/2025

Date of Starting: 28/04/2025

Date of Completion: 05/05/2025

Date of Reporting: 05/05/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

Sample Description: Water Sample (1.2 MLD STP Water)

Sample Collection Date: 24/04/2025

Sample Source: 1.2 MLD SBR Technology STP

Sample Location: Near KK Gate NMPA Mangalore

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per KSPCB Standard	Test Methods
1	Colour	Hazen	<5.0	All efforts should be made to remove colour and unpleasant odour as far as practicable.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	All efforts should be made to remove colour and unpleasant odour as far as practicable.	IS 3025(P-5)-2018
3	pH Value	-	7.61	6.5 - 9.0	IS 3025(P-11)-2022
4	Conductivity at 25°C	µmhos/cm	1382	NS	IS 3025(P-14)-2013
5	Total Dissolved Solids	mg/l	817.0	2100 Max.	IS 3025 (P-16)-2023
6	Total Suspended Solids	mg/l	14.0	20 Max.	IS 3025(P-17)-2022
7	Oil & Grease	mg/l	BLQ(LOQ=2.0)	10 Max.	IS 3025(P-39)-2021
8	Dissolved Oxygen (DO)	mg/l	4.6	NS	IS 3025 (P-38)-1989
9	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	8.3	10 Max.	IS 3025(P-44)-2023
10	Chemical Oxygen Demand (COD)	mg/l	46.4	50 Max.	IS 3025(P-58)-2023
11	Total Nitrogen (as N)	mg/l	7.24	10 Max.	IS 3025(P-34/Sec-1)-2023
12	Ammonical Nitrogen (as NH ₃ -N)	mg/l	<1.0	5 Max.	IS 3025(P-34/Sec-1)-2023
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BLQ(LOQ=0.1)	1 Max.	IS 3025(P-43/Sec-1)-2022
14	Faecal Coliform	MPN/100ml	50	100 Max.	IS:1622-1981

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification
NS=Not Specified

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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5. The non-perishable sample received shall be destroyed after one month and perishable sample shall be destroyed after one week from the date of issue of report unless specified.