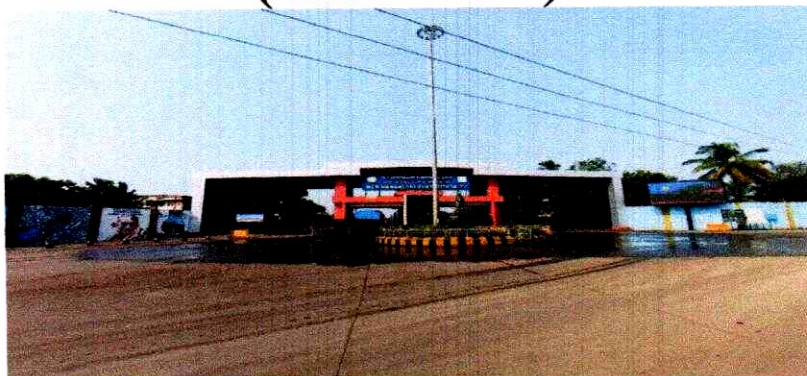


ENVIRONMENTAL MONITORING REPORT

(MAY - 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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(May-2025)

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

S/N	Sample Description & Locations	Date of Sampling
(I)	AMBIENT AIR – ONCE A MONTH	
1	U S Mallya Gate (Main Gate)	23/05/2025
2	Oil Jetty Area Near IMC Terminal	27/05/2025
3	Old Coastal Guard Office/SJ Gate	27/05/2025
4	VTMS Port Control	23/05/2025
5	NMPA Hospital	19/05/2025
(II)	AMBIENT AIR – TWICE A WEEK	
1	Scanner Yard	02/05/2025, 05/05/2025, 08/05/2025, 12/05/2025, 15/05/2025, 19/05/2025, 22/05/2025, 26/05/2025, 29/05/2025
2	Railway Yard	02/05/2025, 05/05/2025, 08/05/2025, 12/05/2025, 15/05/2025, 19/05/2025, 22/05/2025, 26/05/2025, 29/05/2025
3	KK Gate	02/05/2025, 05/05/2025, 08/05/2025, 12/05/2025, 15/05/2025, 19/05/2025, 22/05/2025, 26/05/2025, 29/05/2025
(III)	AMBIENT NOISE	
1	US Mallya Gate (Main Gate)	13/05/2025
2	Wharf Berth (Inside)	15/05/2025
3	Administration Office Building	19/05/2025
4	JNC Hall in the Port Colony	21/05/2025
5	Container Yard	23/05/2025
6	Wharf Canteen	27/05/2025
(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
(May- 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	29/05/2025
2	BL - Base Line (Upto 800m West)	29/05/2025
3	WDA - Western Dock Arm	29/05/2025
4	ODA - Oil Dock Arm (Diaphragm Jetty)	29/05/2025
5	LA - Lagoon Area (Turning Circle)	29/05/2025
(VII)	STP WATER	
1	Slop Reception Treatment Plant (Oil Separator) - SRTP at Wharf	31/05/2025
2	1.2 MLD SBR Technology STP - Near KK Gate NMPA Mangalore	27/05/2025

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

Report No. AAL ENV-20250522023

Sample Description:

Ambient Air Quality Monitoring

Date of Reporting: 26/05/2025

Date of Monitoring:

19/05/2025

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

Sampling Frequency:

Once in a month (Monthly)

Sampling Duration: 24:00 Hrs.

Sampling Location:

NMPA Hospital

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	44.6	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	78.2	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	14.3	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	22.6	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.74	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	28.5	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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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: 23/05/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: U S Mallya Gate (Main Gate)

Report No. AAL ENV-20250626029

Date of Reporting: 29/05/2025

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	74.7	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	16.5	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	28.3	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.78	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	32.4	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, L.O.Q- 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

Date of Monitoring: 23/05/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: VTMS Port Control

Report No. AAL ENV-20250626030

Date of Reporting: 29/05/2025

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	48.6	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	81.9	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	13.5	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	25.7	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.78	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	27.3	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
Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 27/05/2025

Sampling Frequency: Once in a month (Monthly)

Sampling Location: Oil Jetty Area Near IMC Terminal

Report No. AAL ENV-20250530004

Date of Reporting: 02/06/2025

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	40.7	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	76.2	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	14.5	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	25.7	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.86	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	30.5	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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TEST REPORT

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

Report No. AAL ENV-20250530004

Sample Description: Ambient Air Quality Monitoring

Date of Reporting: 02/06/2025

Date of Monitoring: 27/05/2025

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

Sampling Frequency: Once in a month (Monthly)

Sampling Duration: 24:00 Hrs.

Sampling Location: Old Coastal Guard Office/ SJ Gate

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	44.5	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	70.2	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	14.6	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	27.5	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.68	02 (8 Hrs.)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	22.7	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
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AMBIENT AIR
QUALITY MONITORING
REPORTS



(TWICE A WEEK - THREE LOCATIONS)

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



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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 Air Quality Monitoring

Sampling Frequency: Twice a Week (Monthly)

Sampling Location: Scanner Yard

Report No. AAL ENV-20250602035

Date of Reporting: 05/06/2025

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 02/05/2025	44.3	75.7	12.9	30.4	0.81	32.4	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 05/05/2025	41.6	70.5	16.4	27.2	0.71	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)
3 08/05/2025	42.7	73.4	11.2	25.1	0.77	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)
4 12/05/2025	41.2	67.2	16.1	30.3	0.90	29.8	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 15/05/2025	49.5	78.2	15.8	27.4	0.74	32.6	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
6 19/05/2025	43.7	81.4	14.9	29.4	0.62	33.5	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 22/05/2025	49.8	83.5	17.5	27.5	0.58	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)
8 26/05/2025	46.9	80.7	12.7	24.2	0.77	30.1	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
9 29/05/2025	48.4	82.9	13.2	26.8	0.69	29.4	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
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-20250602036

Date of Reporting: 05/06/2025

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 02/05/2025	43.2	84.6	15.9	32.4	0.68	34.6	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
2 05/05/2025	46.5	80.3	13.2	26.1	0.70	32.5	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
3 08/05/2025	46.4	82.5	17.3	29.4	0.84	35.7	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
4 12/05/2025	47.2	86.4	10.5	28.2	0.69	36.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 15/05/2025	44.2	77.6	11.9	24.9	0.81	34.4	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 19/05/2025	41.3	76.2	15.3	28.2	0.76	31.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 22/05/2025	40.2	81.3	13.7	25.3	0.74	37.7	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 26/05/2025	42.8	76.5	14.9	24.7	0.68	35.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
9 29/05/2025	43.7	78.4	16.2	27.5	0.72	34.6	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
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

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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 Air Quality Monitoring

Sampling Frequency: Twice a Week (Monthly)

Sampling Location: KK Gate

Report No. AAL ENV-20250602037

Date of Reporting: 05/06/2025

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 02/05/2025	42.7	86.9	17.9	26.4	0.88	31.2	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 05/05/2025	44.3	84.8	12.7	24.9	0.78	27.2	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 08/05/2025	44.7	91.2	15.9	24.7	0.96	32.4	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 12/05/2025	53.2	88.3	16.5	28.2	0.86	29.4	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 15/05/2025	46.2	86.4	14.7	32.9	0.96	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)
6 19/05/2025	51.4	92.3	18.2	31.4	0.82	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)
7 22/05/2025	42.7	83.2	18.5	29.3	0.87	35.2	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 26/05/2025	43.5	80.1	15.3	31.4	0.85	28.7	BLQ (LOQ=20.0)	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
9 29/05/2025	48.9	86.7	17.1	28.7	0.89	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)
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	Report No.	AAL ENV-20250519017
Sample Description:	Ambient Noise	Date of Receiving:	19/05/2025
Date of Monitoring:	13/05/2025	Date of Starting:	19/05/2025
Sampling Duration:	24:00 Hrs.	Date of Completion:	22/05/2025
Sampling Location:	US Mallya Gate (Main Gate)	Date of Reporting:	22/05/2025
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.	Day Time (6AM-10PM)	Night Time (10PM-6AM)
1	Noise Level			Area Code	Category of Area / Zone	
	Leq-Day	dB(A)	63.9	(A)	Industrial Area	75
				(B)	Commercial Area	65
	Leq-Night	dB(A)	53.2	(C)	Residential Area	55
				(D)	Silence Zone	50

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Report No. AAL ENV-20250519018

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: 15/05/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: Wharf Berth (Inside)

Date of Receiving: 19/05/2025

Date of Starting: 19/05/2025

Date of Completion: 22/05/2025

Date of Reporting: 22/05/2025

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)	46.9	(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	Report No.	AAL ENV-20250524020
Sample Description:	Ambient Noise	Date of Receiving:	24/05/2025
Date of Monitoring:	19/05/2025	Date of Starting:	24/05/2025
Sampling Duration:	24:00 Hrs.	Date of Completion:	27/05/2025
Sampling Location:	Administrative Office Building	Date of Reporting:	27/05/2025
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.	Day Time (6AM-10PM)	Night Time (10PM-6AM)
1	Noise Level			Area Code	Category of Area / Zone	
	Leq-Day	dB(A)	58.2	(A)	Industrial Area	75
				(B)	Commercial Area	65
	Leq-Night	dB(A)	48.1	(C)	Residential Area	55
				(D)	Silence Zone	50

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Report No. AAL ENV-20250524021

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: 21/05/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: JNC Hall in the Port Colony

Date of Receiving: 24/05/2025

Date of Starting: 24/05/2025

Date of Completion: 27/05/2025

Date of Reporting: 27/05/2025

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	Night Time (10PM-6AM)
1	Noise Level					
	Leq-Day	dB(A)	56.3	(A)	Industrial Area	75
				(B)	Commercial Area	65
	Leq-Night	dB(A)	47.4	(C)	Residential Area	55
				(D)	Silence Zone	50

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Report No. AAL ENV-20250531034

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

Date of Receiving: 31/05/2025

Sample Description: Ambient Noise

Date of Starting: 31/05/2025

Date of Monitoring: 27/05/2025

Date of Completion: 02/06/2025

Sampling Duration: 29:00 Hrs.

Date of Reporting: 02/06/2025

Sampling Location: Wharf Canteen

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)	56.2	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	48.3	(C)	Residential Area	55	45
				(D)	Silence Zone	50	40

****End of Report****

ASHUTOSH SRIVASTAVA
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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: 23/05/2025

Sampling Duration: 24:00 Hrs.

Sampling Location: Container Yard

Report No. AAL ENV-20250531033

Date of Receiving: 31/05/2025

Date of Starting: 31/05/2025

Date of Completion: 02/06/2025

Date of Reporting: 02/06/2025

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)	64.2	(A)	Industrial Area	75
				(B)	Commercial Area	65
	Leq-Night	dB(A)	56.2	(C)	Residential Area	55
				(D)	Silence Zone	50

****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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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: Water Sample (Marine Water)

Sample Collection Date: 29/05/2025

Sample Location: EDA - Eastern Dock Arm

Report No. AAL WQT-20250531010

Date of Receiving: 31/05/2025

Date of Starting: 31/05/2025

Date of Completion: 07/06/2025

Date of Reporting: 07/06/2025

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	-	7.96	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	25240.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	3.1	IS 3025(P-10)-2023
5	Nitrate (as NO ₃)	mg/l	1.84	IS 3025(P-34/Sec-1)-2023
6	Magnesium (as Mg)	mg/l	1123.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	670.0	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	0.28	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	590.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7320.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	310.0	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	25240.0	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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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-20250531011
Sample Description:	Water Sample (Marine Water)	Date of Receiving:	31/05/2025
Sample Collection Date:	29/05/2025	Date of Starting:	31/05/2025
Sample Location:	BL - Base Line (Upto 800m West)	Date of Completion:	07/06/2025
		Date of Reporting:	07/06/2025
		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	-	8.11	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	26975.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	2.4	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	979.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	640.0	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	6.1	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.21	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	490.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	6642.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	270.0	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	26975.0	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)	Date of Receiving:	31/05/2025
Sample Collection Date:	29/05/2025	Date of Starting:	31/05/2025
Sample Location:	WDA - Western Dock Arm	Date of Completion:	07/06/2025
		Date of Reporting:	07/06/2025
		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	-	8.07	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	28820.0	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	1110.0	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	6.5	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.30	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	540.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7054.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	310.0	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	28820.0	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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Issued To: M/s New Mangalore Port Authority
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Panambur, Mangalore – 575 010, Karnataka

Sample Description: Water Sample (Marine Water)

Sample Collection Date: 29/05/2025

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

Report No. AAL WQT-20250531013

Date of Receiving: 31/05/2025

Date of Starting: 31/05/2025

Date of Completion: 07/06/2025

Date of Reporting: 07/06/2025

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	-	8.14	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	30143.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	3.5	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	1420.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	860.0	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	6.9	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.30	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	510.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7521.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	391.0	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	30143.0	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)	Date of Receiving:	31/05/2025
Sample Collection Date:	29/05/2025	Date of Starting:	31/05/2025
Sample Location:	LA - Lagoon Area (Turning Circle)	Date of Completion:	07/06/2025
		Date of Reporting:	07/06/2025
		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	-	8.17	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	30242.0	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	1420.0	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	910.0	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	6.9	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.33	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	482.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	7529.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	350.0	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	30242.0	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)

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Deputy Technical Manager
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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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Panambur, Mangalore – 575 010, Karnataka

Report No. AAL WQT-20250529006

Date of Receiving: 29/05/2025

Date of Starting: 29/05/2025

Date of Completion: 07/06/2025

Date of Reporting: 07/06/2025

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: 27/05/2025

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	-	7.86	6.5 - 9.0	IS 3025(P-11)-2022
4	Conductivity at 25°C	µmhos/cm	1240	NS	IS 3025(P-14)-2013
5	Total Dissolved Solids	mg/l	715.0	2100 Max.	IS 3025 (P-16)-2023
6	Total Suspended Solids	mg/l	12.6	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	7.8	10 Max.	IS 3025(P-44)-2023
10	Chemical Oxygen Demand (COD)	mg/l	42.0	50 Max.	IS 3025(P-58)-2023
11	Total Nitrogen (as N)	mg/l	6.7	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	70	100 Max.	IS:1622-1981

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

****End of Report****

Vinay Dixit
(Microbiologist)

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Deputy Technical Manager
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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: Water Sample (SRTP Waste Water)

Sample Collection Date: 31/05/2025

Sample Source: Slop Reception Treatment Plant (Oil Separator)

Sample Location: SRTP at Wharf

Report No. AAL WQT-20250602012

Date of Receiving: 02/06/2025

Date of Starting: 02/06/2025

Date of Completion: 09/06/2025

Date of Reporting: 09/06/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

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	-	7.54	6.5 - 9.0	IS 3025(P-11)-2022
4	Conductivity at 25°C	µmhos/cm	1680	NS	IS 3025(P-14)-2013
5	Total Dissolved Solids	mg/l	1320.0	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	3.8	NS	IS 3025 (P-38)-1989
9	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	8.8	10 Max.	IS 3025(P-44)-2023
10	Chemical Oxygen Demand (COD)	mg/l	45.4	50 Max.	IS 3025(P-58)-2023
11	Total Nitrogen (as N)	mg/l	7.7	10 Max.	IS 3025(P-34/Sec-1)-2023
12	Ammonical Nitrogen (as NH ₃ -N)	mg/l	1.6	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	90	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

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred nor implied.
2. Total liability of our laboratory is limited to the invoice amount.
3. This report shall not be reproduced wholly or in part without written consent of the laboratory.
4. This report shall not be used in any advertising media or as evidence in the court of law without prior written consent of the laboratory.
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.