

ENVIRONMENTAL MONITORING REPORT

(OCTOBER - 2024)



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



Submitted By:
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(Recognized by NABL & MOEF&CC, Government of India)



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**Details of Sampling at M/s New Mangalore Port Authority, Mangalore, Karnataka
(October 2024)**

S/N	Sample Description & Locations	Date of Sampling
(I) AMBIENT AIR – ONCE A MONTH		
1	U S Mallya Gate (Main Gate)	
2	NMPA Hospital	17/10/2024
3	Old Coastal Guard Office/SJ Gate	14/10/2024
4	Oil Jetty Area Near IMC Terminal	24/10/2024
5	VTMS Port Control	22/10/2024
		28/10/2024
(II) AMBIENT AIR – TWICE A WEEK		
1	Scanner Yard	03/10/2024, 07/10/2024, 10/10/2024, 14/10/2024, 17/10/2024, 21/10/2024, 24/10/2024, 28/10/2024, 31/10/2024
2	Railway Yard	03/10/2024, 07/10/2024, 10/10/2024, 14/10/2024, 17/10/2024, 21/10/2024, 24/10/2024, 28/10/2024, 31/10/2024
3	KK Gate	03/10/2024, 07/10/2024, 10/10/2024, 14/10/2024, 17/10/2024, 21/10/2024, 24/10/2024, 28/10/2024, 31/10/2024
(III) AMBIENT NOISE		
1	US Mallya Gate (Main Gate)	15/10/2024
2	Administration Office Building	25/10/2024
3	JNC Hall in the Port Colony	28/10/2024
4	Wharf Berth (Inside)	17/10/2024
5	Container Yard	21/10/2024
6	Wharf Canteen	23/10/2024
(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
(October 2024)**

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	25/10/2024
2	BL - Base Line (Upto 800m West)	25/10/2024
3	WDA - Western Dock Arm	25/10/2024
4	ODA - Oil Dock Arm (Diaphragm Jetty)	25/10/2024
5	LA - Lagoon Area (Turning Circle)	25/10/2024
(VII)	STP WATER	
1	1.2 MLD SBR Technology STP - Near KK Gate NMPA Mangalore	25/10/2024
2	Slop Reception Treatment Plant (Oil Separator) - SRTP at Wharf	25/10/2024



AMBIENT AIR
QUALITY MONITORING
REPORTS



(ONCE A MONTH - FIVE LOCATIONS)

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





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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

Date of Monitoring: 17/10/2024

Sampling Frequency: Once in a month (Monthly)

Sampling Location: U S Mallya Gate (Main Gate)

Report No. AAL ENV-20241021022

Date of Reporting: 24/10/2024

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	43.8	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	81.5	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	16.9	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	27.2	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.89	02 (8hr)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	25.6	100 (8hr)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	32.8	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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Govt. of India (Ministry of Ports, Shipping and Waterways)
Panambur, Mangalore – 575 010, Karnataka

Report No. AAL ENV-20241017015

Sample Description: Ambient Air Quality Monitoring

Date of Reporting: 21/10/2024

Date of Monitoring: 14/10/2024

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	39.1	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	78.4	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	18.3	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	1.02	02 (8hr)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	23.8	100 (8hr)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	29.5	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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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: 24/10/2024

Sampling Frequency: Once in a month (Monthly)

Sampling Location: Old Coastal Guard Office/SJ Gate

Report No. AAL ENV-20241028034

Date of Reporting: 31/10/2024

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	35.4	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	75.2	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	15.6	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	24.2	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.81	02 (8hr)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	24.7	100 (8hr)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	30.3	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****


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Deputy Technical Manager
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Panambur, Mangalore – 575 010, Karnataka

Report No. AAL ENV-20241025010

Date of Reporting: 29/10/2024

Sample Description: Ambient Air Quality Monitoring

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

Date of Monitoring: 22/10/2024

Sampling Duration: 24:00 Hrs

Sampling Frequency: Once in a month (Monthly)

Sampling Done By: AAL

Sampling Location: Oil Jetty Area Near IMC Terminal

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	36.8	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	13.2	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	21.9	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	1.06	02 (8hr)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	25.3	100 (8hr)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	29.6	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****

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Authorised Signatory

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Panambur, Mangalore – 575 010, Karnataka

Report No. AAL ENV-20241031036

Sample Description: Ambient Air Quality Monitoring

Date of Reporting: 04/11/2024

Date of Monitoring: 28/10/2024

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

Sampling Frequency: Once in a month (Monthly)

Sampling Duration: 24:00 Hrs

Sampling Location: VTMS Port Control

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	40.2	60	IS 5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	81.5	100	IS 5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	18.3	80	IS 5182(P-2/Sec-1)-2023
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	25.9	80	IS 5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	0.88	02 (8hr)	IS 5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	26.2	100 (8hr)	IS 5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	33.6	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.					

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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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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-20241104003

Date of Reporting: 07/11/2024

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 03/10/2024	40.3	76.1	18.6	38.2	1.25	25.3	31.7	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
2 07/10/2024	38.5	72.5	16.9	35.7	1.21	26.8	29.5	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
3 10/10/2024	42.2	82.9	15.3	32.8	1.28	23.2	35.4	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
4 14/10/2024	39.5	78.3	19.4	39.4	1.23	24.6	32.6	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 17/10/2024	37.8	72.6	15.2	35.3	1.15	25.9	32.9	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
6 21/10/2024	42.9	80.5	18.7	36.9	1.18	24.7	30.1	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 24/10/2024	41.8	78.2	17.3	38.4	1.22	26.4	30.8	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 28/10/2024	39.6	76.4	16.4	36.3	1.19	24.1	29.3	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
9 31/10/2024	40.7	80.3	18.2	37.8	1.23	25.9	31.9	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-20241104004

Date of Reporting: 07/11/2024

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 03/10/2024	46.8	85.3	20.2	32.6	1.28	24.5	30.6	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
2 07/10/2024	50.3	91.3	18.3	29.4	1.35	24.2	32.5	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
3 10/10/2024	48.2	84.2	21.4	28.7	1.32	25.9	34.9	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
4 14/10/2024	45.4	86.5	17.6	32.3	1.28	26.4	33.1	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 17/10/2024	41.2	90.7	19.2	35.1	1.26	24.3	29.8	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
6 21/10/2024	44.6	92.5	22.5	36.4	1.19	25.1	31.5	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 24/10/2024	43.9	88.4	21.2	34.2	1.21	23.8	30.6	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 28/10/2024	45.8	91.6	19.6	33.7	1.26	24.1	28.4	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
9 31/10/2024	48.3	93.9	21.9	35.3	1.29	23.5	31.2	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-20241104005

Date of Reporting: 07/11/2024

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 03/10/2024	42.8	84.5	19.1	31.7	1.21	24.3	32.6	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
2 07/10/2024	46.9	90.3	21.5	32.3	1.24	29.4	36.4	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
3 10/10/2024	43.8	86.9	18.2	29.1	1.28	25.8	31.3	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
4 14/10/2024	46.4	91.6	20.4	28.9	1.18	26.3	29.5	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
5 17/10/2024	45.9	87.3	17.9	26.9	1.24	23.2	32.6	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
6 21/10/2024	40.3	82.1	20.8	32.5	1.27	25.1	33.8	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
7 24/10/2024	41.9	88.4	21.6	31.8	1.21	27.8	34.7	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
8 28/10/2024	45.4	89.4	19.9	29.7	1.19	24.2	35.2	BLQ (LOQ=0.1)	BLQ (LOQ=1.0)	BLQ (LOQ=1.0)	BLQ (LOQ=5.0)	BLQ (LOQ=1.0)
9 31/10/2024	43.8	91.2	21.8	32.1	1.23	26.9	33.8	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. ADMINISTRATION OFFICE COLONY**
- 3. JNC HALL IN THE PORT COLONY**
- 4. WHARF BERTH (INSIDE)**
- 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: 15/10/2024

Sampling Duration: 24:00 Hrs

Sampling Location: US Mallya Gate (Main Gate)

Report No. AAL ENV-20241021023

Date of Receiving: 21/10/2024

Date of Starting: 21/10/2024

Date of Completion: 24/10/2024

Date of Reporting: 24/10/2024

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)	60.5	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	51.3	(C)	Residential Area	55	45
				(D)	Silence Zone	50	40

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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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: 25/10/2024

Sampling Duration: 24:00 Hrs

Sampling Location: Administration Office Building

Report No. AAL ENV-20241031037

Date of Receiving: 31/10/2024

Date of Starting: 31/10/2024

Date of Completion: 04/11/2024

Date of Reporting: 04/11/2024

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	dB(A)	58.4	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	47.5	(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: 28/10/2024

Sampling Duration: 24:00 Hrs

Sampling Location: JNC Hall in the Port Colony

Report No. AAL ENV-20241031038

Date of Receiving: 31/10/2024

Date of Starting: 31/10/2024

Date of Completion: 04/11/2024

Date of Reporting: 04/11/2024

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)	59.3	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	47.5	(C)	Residential Area	55	45
				(D)	Silence Zone	50	40

****End of Report****


ASHUTOSH SRIVASTAVA
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: Ambient Noise

Date of Monitoring: 17/10/2024

Sampling Duration: 24:00 Hrs

Sampling Location: Wharf Berth (Inside)

Report No. AAL ENV-20241021024

Date of Receiving: 21/10/2024

Date of Starting: 21/10/2024

Date of Completion: 24/10/2024

Date of Reporting: 24/10/2024

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	dB(A)	61.8	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	50.5	(C)	Residential Area	55	45
				(D)	Silence Zone	50	40

****End of Report****


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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 Noise

Date of Monitoring: 21/10/2024

Sampling Duration: 24:00 Hrs

Sampling Location: Container Yard

Report No. AAL ENV-20241028035

Date of Receiving: 28/10/2024

Date of Starting: 28/10/2024

Date of Completion: 31/10/2024

Date of Reporting: 31/10/2024

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	dB(A)	62.4	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	53.2	(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: 23/10/2024

Sampling Duration: 24:00 Hrs

Sampling Location: Wharf Canteen

Report No. AAL ENV-20241028036

Date of Receiving: 28/10/2024

Date of Starting: 28/10/2024

Date of Completion: 31/10/2024

Date of Reporting: 31/10/2024

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	dB(A)	61.6	(A)	Industrial Area	75	70
				(B)	Commercial Area	65	55
	Leq-Night	dB(A)	47.8	(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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Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com

Website : www.aalkundli.com

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 WQT-20241028002
Sample Description:	Water Sample (Marine Water)	Date of Receiving:	28/10/2024
Sample Collection Date:	25/10/2024	Date of Starting:	28/10/2024
Sample Location:	EDA - Eastern Dock Arm	Date of Completion:	07/11/2024
		Date of Reporting:	07/11/2024
		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	-	8.40	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	24000.0	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	2293.33	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	335.92	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	0.26	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	684.08	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	9100.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	345.0	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	24006.8	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-20241028003
Sample Description:	Water Sample (Marine Water)	Date of Receiving:	28/10/2024
Sample Collection Date:	25/10/2024	Date of Starting:	28/10/2024
Sample Location:	BL - Base Line (Upto 800m West)	Date of Completion:	07/11/2024
		Date of Reporting:	07/11/2024
		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	-	8.42	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	23970.0	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	2927.66	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	333.43	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	7.1	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.22	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	724.32	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	9400.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	376.0	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	23973.0	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

Report No. AAL WQT-20241028004

Date of Receiving: 28/10/2024

Date of Starting: 28/10/2024

Date of Completion: 07/11/2024

Date of Reporting: 07/11/2024

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

Sample Description: Water Sample (Marine Water)

Sample Collection Date: 25/10/2024

Sample Location: WDA - Western Dock Arm

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.29	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	23000.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	2.0	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	1854.18	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	332.0	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	7.0	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.27	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	764.0	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	9200.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	351.0	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	23006.0	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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Report No. AAL WQT-20241028005

Date of Receiving: 28/10/2024

Date of Starting: 28/10/2024

Date of Completion: 07/11/2024

Date of Reporting: 07/11/2024

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

Sample Description: Water Sample (Marine Water)

Sample Collection Date: 25/10/2024

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

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.89	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	23926.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	2.8	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	2634.89	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	336.70	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	7.1	IS 3025 (P-38)-1989
10	Iron (as Fe)	mg/l	0.18	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	1166.96	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	9025.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	354.0	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	23927.0	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

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Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
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Report No. AAL WQT-20241028006

Date of Receiving: 28/10/2024

Date of Starting: 28/10/2024

Date of Completion: 07/11/2024

Date of Reporting: 07/11/2024

Sample Quantity: 2 Litre

Sample Packing Condition: Sealed Packed Bottle

Sample Collected By: AAL

Sample Description: Water Sample (Marine Water)

Sample Collection Date: 25/10/2024

Sample Location: LA - Lagoon Area (Turning Circle)

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	-	8.73	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	24000.0	IS 3025 (P-16)-2023
4	Turbidity	NTU	2.8	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	1219.86	IS 3025(P-2)-2019
7	Sulphate (as SO ₄)	mg/l	333.89	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	0.38	IS 3025(P-2)-2019
11	Calcium (as Ca)	mg/l	643.84	IS 3025(P-2)-2019
12	Sodium (a Na)	mg/l	9300.0	IS 3025(P-2)-2019
13	Potassium (as K)	mg/l	365.0	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	24003.0	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. 1.2 MLD SBR TECHNOLOGY STP - NEAR KK GATE**
- 2. SLOP RECEPTION TREATMENT PLANT
(OIL SEPARATOR) - SRTP AT WHARF**





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Report No. AAL WQT-20241028007

Date of Receiving: 28/10/2024
Date of Starting: 28/10/2024
Date of Completion: 07/11/2024
Date of Reporting: 07/11/2024
Sample Quantity: 2 Litre
Sample Packing Condition: Sealed Packed Bottle
Sample Collected By: AAL

Sample Description: Water Sample (SRTP Waste Water)
Sample Collection Date: 25/10/2024
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	-	7.36	6.5 - 9.0	IS 3025(P-11)-2022
4	Conductivity at 25°C	µmhos/cm	1042.0	NS	IS 3025(P-14)-2013
5	Total Dissolved Solids	mg/l	738.0	2100 Max.	IS 3025 (P-16)-2023
6	Total Suspended Solids	mg/l	16.4	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	9.0	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	9.3	10 Max.	IS 3025(P-34/Sec-1)-2023
12	Ammonical Nitrogen (as NH ₃ -N)	mg/l	1.2	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

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Panambur, Mangalore – 575 010, Karnataka

Report No. AAL WQT-20241028008

Sample Description: Water Sample (1.2 MLD STP Water)
Sample Collection Date: 25/10/2024
Sample Source: 1.2 MLD SBR Technology STP
Sample Location: Near KK Gate NMPA Mangalore

Date of Receiving: 28/10/2024
Date of Starting: 28/10/2024
Date of Completion: 07/11/2024
Date of Reporting: 07/11/2024
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	-	7.48	6.5 - 9.0	IS 3025(P-11)-2022
4	Conductivity at 25°C	µmhos/cm	578	NS	IS 3025(P-14)-2013
5	Total Dissolved Solids	mg/l	397.0	2100 Max.	IS 3025 (P-16)-2023
6	Total Suspended Solids	mg/l	7.4	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	4.7	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	37.0	50 Max.	IS 3025(P-58)-2023
11	Total Nitrogen (as N)	mg/l	5.7	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	40	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.