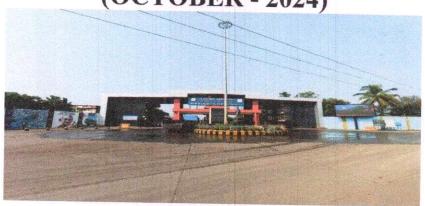
ENVIRONMENTAL MONITORING REPORT

(OCTOBER - 2024)



Submitted To: NEW MANGALORE PORT AUTHORITY

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



Submitted By:

Arihant Analytical Laboratory Pvt. Ltd.

272, Phase-IV, Sector-57, HSIIDC, Kundli, Dist. Sonepat, (Haryana)

Email: aalkundli@gmail.com

(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	Day 60				
(I)	AMBIENT AIR - ONCE A MONTH	Date of Sampling				
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				
(III)		28/10/2024				
(II)	AMBIENT AIR - TWICE A WEEK					
1	Scanner Yard	02/10/2024 07/10/1				
		03/10/2024, 07/10/2024, 10/10/20 14/10/2024, 17/10/2024, 21/10/20				
2	Railway Yard	24/10/2024, 28/10/2024, 31/10/2024				
	, and	03/10/2024, 07/10/2024 10/10/2024				
		14/10/2024, 17/10/2024 21/10/2024				
3	KK Gate	24/10/2024, 28/10/2024, 31/10/2024				
		03/10/2024, 07/10/2024 10/10/2024				
(III)	AMBIENT NOISE	14/10/2024, 17/10/2024, 21/10/2024 24/10/2024, 28/10/2024, 31/10/2024				
2	US Mallya Gate (Main Gate)	15/10/2024				
3	Administration Office Building	25/10/2024				
	JNC Hall in the Port Colony	28/10/2024				
	Wharf Berth (Inside)	17/10/2024				
The second secon	Container Yard	21/10/2024				
6	Wharf Canteen	23/10/2024				
(IV)	STACK EMISSION – D G SETS	20,10,2024				
	33 KV MUSS - (11KV, 1000 KVA-1)					
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				
	ESD-V - (415V, 500 KVA-1)	D G Set Was Not Running				
	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 A	AO Building - (415V, 100 KVA)	D G Set Was Not Running				
	AO Building - (415V, 500 KVA)	D G Set Was Not Running				
	SD-II Wharf - (415V, 500 KVA)	D G Set Was Not Running				
11 E	BDC NMPA - (415V, 250 KVA)	D G Set Was Not Running				
	(1.2.1, 2.0 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. USMALLYA GATE
- 2. NMPA HOSPITAL
- 3. OID COASTAL GUARD OFFICE/SJ GATE
- 4. OIL JETTY ARE NEAR IMC TERMINAL
- 5. VTMS PORT CONTROL





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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:

17/10/2024

Sampling Frequency:

Once in a month (Monthly)

Sampling Location:

U S Mallya Gate (Main Gate)

Date of Reporting:

Report No.

24/10/2024

AAL ENV-20241021022

Sampling Method:

Sampling Duration:

IS:5182 (Part-14)-2000 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/m³	43.8	60	IS 5182(P-24)-2019	
2	Particulate Matter, PM 10	μg/m³	81,5	100	IS 5182(P-23)-2006	
3	Sulphur Dioxide (as SO ₂)	μg/m³	16.9	80	IS 5182(P-2/Sec-1)-2023	
4	Nitrogen Dioxide (as NO ₂)	μg/m³	27.2	80	IS 5182(P-6)-2006	
5	Carbon Monoxide (as CO)	mg/m³	0.89	02 (8hr)	IS 5182(P-10)-1999	
6	Ozone (as O ₃)	μg/m³	25.6	100 (8hr)	IS 5182(P-9)-1974	
7	Ammonia (as NH ₃)	μg/m³	32.8	400	IS 5182(P-25)-2018	
8	Lead (as Pb)	μg/m³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-202	
9	Nickel (as Ni)	ng/ m³	BLQ (LOQ =1.0)	20	AAL/SOP/ENV/008-202	
10	Arsenic (as As)	ng/m³	BLQ (LOQ =1.0)	06	AAL/SOP/ENV/008-202	
11	Benzene (as C ₆ H ₆)	μg/m³	BLQ (LOQ =5.0)	05	AAL/SOP/ENV/019-2022	
12	Banzo a-pyrene (BaP)	ng/m³	BLQ (LOQ =1.0)	01	AAL/SOP/ENV/018-2022	
	NAAQS=National Ambient Air Quality Standard BLQ=Below Limit of Quantification, LOQ= Limit of Qu Sample Analyzed within seven days from the date of san	nantification appling.				

Authorised Signatory

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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:

14/10/2024

Sampling Frequency:

Once in a month (Monthly)

Sampling Location:

NMPA Hospital

Report No.

AAL ENV-20241017015

Date of Reporting:

21/10/2024

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/m³	39.1	60	IS 5182(P-24)-2019	
2	Particulate Matter, PM 10	μg/m³	78.4	100	IS 5182(P-23)-2006	
3	Sulphur Dioxide (as SO ₂)	μg/m³	18.3	80	IS 5182(P-2/Sec-1)-2023	
4	Nitrogen Dioxide (as NO ₂)	μg/m³	25.7	80	IS 5182(P-6)-2006	
5	Carbon Monoxide (as CO)	mg/m³	1.02	02 (8hr)	IS 5182(P-10)-1999	
6	Ozone (as O ₃)	μg/m³	-23.8	100 (8hr)	IS 5182(P-9)-1974	
7	Ammonia (as NH ₃)	μg/m³	29.5	400	IS 5182(P-25)-2018	
8	Lead (as Pb)	μg/m³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-202	
9	Nickel (as Ni)	ng/ m³	BLQ (LoQ =1.0)	20	AAL/SOP/ENV/008-202	
10	Arsenic (as As)	ng/m³	BLQ (LOQ =1.0)	06	AAL/SOP/ENV/008-202	
11	Benzene (as C ₆ H ₆)	μg/m³	BLQ (LOQ =5.0)	05	AAL/SOP/ENV/019-202	
12	Banzo a-pyrene (BaP)	ng/m³	BLQ (LoQ =1.0)	01	AAL/SOP/ENV/018-202	
	NAAQS=National Ambient Air Quality Standard BLQ=Below Limit of Quantification, LOQ= Limit of Qu Sample Analyzed within seven days from the date of sam	antification pling.				

SH SRIVASTAVA **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

24:00 Hrs

Sampling Done By: AAL

Sampling Duration:

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods	
1	Particulate Matter, PM 2.5	μg/m³	35.4	60	IS 5182(P-24)-2019	
2	Particulate Matter, PM 10	μg/m³	75.2	100	IS 5182(P-23)-2006	
3	Sulphur Dioxide (as SO ₂)	μg/m³	15.6	80	IS 5182(P-2/Sec-1)-2023	
4	Nitrogen Dioxide (as NO ₂)	μg/m³	24.2	80	IS 5182(P-6)-2006	
5	Carbon Monoxide (as CO)	mg/m³	0.81	02 (8hr)	IS 5182(P-10)-1999	
6	Ozone (as O ₃)	μg/m³	24.7	100 (8hr)	IS 5182(P-9)-1974	
7	Ammonia (as NH ₃)	μg/m³	30,3	400	IS 5182(P-25)-2018	
8	Lead (as Pb)	μg/m³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-202	
9	Nickel (as Ni)	ng/ m³	BLQ (LOQ =1.0)	20	AAL/SOP/ENV/008-202	
10	Arsenic (as As)	ng/m³	BLQ (LOQ=1.0)	06	AAL/SOP/ENV/008-202	
11	Benzene (as C ₆ H ₆)	μg/m³	BLQ (LOQ =5.0)	05	AAL/SOP/ENV/019-2022	
12	Banzo a-pyrene (BaP)	ng/m³	BLQ (1.00 = 1.0)	01	AAL/SOP/ENV/018-2022	
p.\	NAAQS=National Ambient Air Quality Standard BLQ=Below Limit of Quantification, LOQ= Limit of Qu Sample Analyzed within seven days from the date of san	nantification npling.				



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Page 1 of 1

IS:5182 (Part-14)-2000

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: 22/10/2024

Sampling Frequency: Once in a month (Monthly)

Sampling Location: Oil Jetty Area Near IMC Terminal Report No. AAL ENV-20241025010

Date of Reporting: 29/10/2024

Sampling Method:

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/m³	36.8	60	IS 5182(P-24)-2019	
2	Particulate Matter, PM 10	μg/m³	75.3	100	IS 5182(P-23)-2006	
3	Sulphur Dioxide (as SO ₂)	μg/m³	13.2	80	IS 5182(P-2/Sec-1)-2023	
4	Nitrogen Dioxide (as NO ₂)	μg/m³	21.9	80	IS 5182(P-6)-2006	
5	Carbon Monoxide (as CO)	mg/m³	1,06	02 (8hr)	IS 5182(P-10)-1999	
6	Ozone (as O ₃)	μg/m³	25.3	100 (8hr)	IS 5182(P-9)-1974	
7	Ammonia (as NH ₃)	μg/m³	29.6	400	IS 5182(P-25)-2018	
8	Lead (as Pb)	μg/m³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-2023	
9	Nickel (as Ni)	ng/ m³	BLQ (LOQ = 1.0)	20	AAL/SOP/ENV/008-2023	
10	Arsenic (as As)	ng/m³	BLQ (LOQ=1.0)	06	AAL/SOP/ENV/008-2023	
11	Benzene (as C ₆ H ₆)	μg/m³	BLQ (LQQ =5.0)	05	AAL/SOP/ENV/019-2022	
12	Banzo a-pyrene (BaP)	ng/m³	BLQ (LOQ = 1.0)	01	AAL/SOP/ENV/018-2022	
	NAAQS=National Ambient Air Quality Standard BLQ=Below Limit of Quantification, LOQ= Limit of Qu Sample Analyzed within seven days from the date of sam	antification upling.				

Authorised Signatory

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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:

28/10/2024

Sampling Frequency:

Once in a month (Monthly)

Sampling Location:

VTMS Port Control

Report No.

AAL ENV-20241031036

Date of Reporting:

04/11/2024

Sampling Method:

IS:5182 (Part-14)-2000

Sampling Duration:

24:00 Hrs

Sampling Done By:

AAL

TEST RESULT

Test Parameters	Unit	Results	Limits as per NAAQS (Max.)	Test Methods
Particulate Matter, PM 2.5	μg/m³	40.2	60	IS 5182(P-24)-2019
Particulate Matter, PM 10	μg/m³	81,5	100	IS 5182(P-23)-2006
Sulphur Dioxide (as SO ₂)	μg/m³	18.3	80	IS 5182(P-2/Sec-1)-2023
Nitrogen Dioxide (as NO ₂)	μg/m³	25.9	80	IS 5182(P-6)-2006
Carbon Monoxide (as CO)	mg/m³	0.88	02 (8hr)	IS 5182(P-10)-1999
Ozone (as O ₃)	μg/m³	26.2	100 (8hr)	IS 5182(P-9)-1974
Ammonia (as NH ₃)	μg/m³	33.6	400	IS 5182(P-25)-2018
Lead (as Pb)	μg/m³	BLQ (LOQ=0.1)	01	AAL/SOP/ENV/008-202
Nickel (as Ni)	ng/ m³	BLQ (LOQ =1.0)	20	AAL/SOP/ENV/008-202
Arsenic (as As)	ng/m³	BLQ (LOQ =1.0)	06	AAL/SOP/ENV/008-202
Benzene (as C ₆ H ₆)	μg/m³	BLQ (LOQ =5.0)	05	AAL/SOP/ENV/019-202
Banzo a-pyrene (BaP)	ng/m³	BLQ (LOQ = 1.0)	01	AAL/SOP/ENV/018-202
NAAQS=National Ambient Air Quality Standard BLQ=Below Limit of Quantification, LOQ= Limit of Qua Sample Analyzed within seven days from the date of sam	ntification			
	Particulate Matter, PM 2.5 Particulate Matter, PM 10 Sulphur Dioxide (as SO2) Nitrogen Dioxide (as NO2) Carbon Monoxide (as CO) Ozone (as O3) Ammonia (as NH3) Lead (as Pb) Nickel (as Ni) Arsenic (as As) Benzene (as C ₆ H ₆) Banzo a-pyrene (BaP) NAAQS-National Ambient Air Quality Standard BLO-Below Limit of Quantification, LOC-Limit of Quantificatio	Particulate Matter, PM 2.5	Particulate Matter, PM 2.5 μg/m³ 40.2 Particulate Matter, PM 10 μg/m³ 81.5 Sulphur Dioxide (as SO2) μg/m³ 18.3 Nitrogen Dioxide (as NO2) μg/m³ 25.9 Carbon Monoxide (as CO) mg /m³ 0.88 Ozone (as O3) μg/m³ 26.2 Ammonia (as NH3) μg/m³ 33.6 Lead (as Pb) μg/m³ BLQ (LOQ=0.1) Nickel (as Ni) ng/m³ BLQ (LOQ=1.0) Arsenic (as As) ng/m³ BLQ (LOQ=1.0) Benzene (as C6H6) μg/m³ BLQ (LOQ=5.0) Banzo a-pyrene (BaP) ng/m³ BLQ (LOQ=1.0) NAAQS-National Ambient Air Quality Standard BLQ-Below Limit of Quantification LOQ= Limit of Qu	Particulate Matter, PM 2.5

Authorised Signatory

 The result indicated above relet to the tested sample and listed test parameters only, endorsement of products is neutron linear and including a constant of products in the constant of products is neutron linear and including a constant of products in the consta date of issue of report unless specified.

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied.

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

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:

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

	Parameters→ 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/m³)	Ο ₃ (μg/m³)	NH ₃ (μg/m ³)	Pb (μg/m³)	As (ng/m³)	Ni (ng/m³)	C ₆ H ₆ (μg/m ³)	B(a)P (ng/m³)
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)
NAA	Q Standard	60	100	80	80	2	100	400	1	6	20	5	1
Test Methods		(P-24) (P-23) (P-2/		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, \$LQ-Bellow Limit of Quantification, \$LQ-Limit of Quantification Sample Analyzed within seven days from the date of sampling.		pling.											
					1	End of Repo	rt	3/2					

Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied.

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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

AAL

Sampling Done By:

TEST RESULT

	t Parameters→ e of Sampling↓	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m ³)	CO (mg/m³)	Ο ₃ (μg/m³)	NH ₃ (μg/m ³)	Pb (μg/m³)	As (ng/m³)	Ni (ng/m³)	C ₆ H ₆ (μg/m ³)	B(a)P (ng/m³)
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)
NAA	Q Standard	60	100	80	80	2	100	400	1	6	20	5	1
	Methods	(P-24) (P-23) (P-2/ 2019 2006 Sec-1)		(P-2/	IS 5182 (P-6) 2006	IS 5182 (P-10) 1999	IS 5182 (P-9) 1974	IS 5182 (P-25) 2018	(P-25) P/ENV/0	AAL/SO P/ENV/0 08-2023	AAL/SO P/ENV/0 08-2023	AAL/SOP /ENV/019 -2022	AAL/SOF ENV/018 2022
LQ=B OQ=L	S= National Ambient Air Qua elow Limit of Quantification, imit of Quantification Analyzed within seven days f		pling.	1									
***********				L	**E	nd of Repo	rt**						

Technical Manager Authorised Signatory

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The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. Total liability of our laboratory is limited to the invoice amount.

^{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.



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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

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

e 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/m³)	O ₃ (μg/m³)	NH ₃ (μg/m ³)	Pb (μg/m³)	As (ng/m³)	Ni (ng/m³)	C ₆ H ₆ (μg/m ³)	B(a)P (ng/m³)
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)
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)
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)
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)
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)
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
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)
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)
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)
AQ 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/SOI ENV/018 2022
NAAQS= National Ambient Air Quality Standard, \$LQ=Below Limit of Quantification, \$\times Q=\text{Log} = \text{Log} = \te		pling.		4. F. 3		1 2						
	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 31/10/2024 Methods Se National Ambient Air Quadification, imit of Quantification imit of Quantif	03/10/2024 42.8 07/10/2024 46.9 10/10/2024 43.8 14/10/2024 46.4 17/10/2024 45.9 21/10/2024 45.9 21/10/2024 41.9 28/10/2024 45.4 31/10/2024 43.8 Q Standard 60 Methods IS 5182 (P-24) 2019 S= National Ambient Air Quality Standard, ellow Limit of Quantification, mint of Quantification mint of Quantificati	03/10/2024 42.8 84.5 07/10/2024 46.9 90.3 10/10/2024 43.8 86.9 14/10/2024 46.4 91.6 17/10/2024 45.9 87.3 21/10/2024 40.3 82.1 24/10/2024 41.9 88.4 28/10/2024 45.4 89.4 31/10/2024 43.8 91.2 Q Standard 60 100 Methods IS 5182 (P-24) (P-23) 2019 2006 Se National Ambient Air Quality Standard, ellow Limit of Quantification, mint of Quantification, mint of Quantification, mint of Quantification	03/10/2024 42.8 84.5 19.1 07/10/2024 46.9 90.3 21.5 10/10/2024 43.8 86.9 18.2 14/10/2024 46.4 91.6 20.4 17/10/2024 45.9 87.3 17.9 21/10/2024 40.3 82.1 20.8 24/10/2024 41.9 88.4 21.6 28/10/2024 45.4 89.4 19.9 31/10/2024 43.8 91.2 21.8 Q Standard 60 100 80 Methods IS 5182 (P-24) (P-23) (P-27) (P-2	03/10/2024 42.8 84.5 19.1 31.7 07/10/2024 46.9 90.3 21.5 32.3 10/10/2024 43.8 86.9 18.2 29.1 14/10/2024 46.4 91.6 20.4 28.9 17/10/2024 45.9 87.3 17.9 26.9 21/10/2024 40.3 82.1 20.8 32.5 24/10/2024 41.9 88.4 21.6 31.8 28/10/2024 45.4 89.4 19.9 29.7 31/10/2024 43.8 91.2 21.8 32.1 Q Standard 60 100 80 80 Methods IS 5182 (P-24) (P-23) (P-2) (P-6) (P-6) (P-6) (P-6) (2023) 2023 2023	03/10/2024 42.8 84.5 19.1 31.7 1.21 07/10/2024 46.9 90.3 21.5 32.3 1.24 10/10/2024 43.8 86.9 18.2 29.1 1.28 14/10/2024 46.4 91.6 20.4 28.9 1.18 17/10/2024 45.9 87.3 17.9 26.9 1.24 21/10/2024 40.3 82.1 20.8 32.5 1.27 24/10/2024 41.9 88.4 21.6 31.8 1.21 28/10/2024 45.4 89.4 19.9 29.7 1.19 31/10/2024 43.8 91.2 21.8 32.1 1.23 Q Standard 60 100 80 80 2 Methods 1S 5182 (P-24) (P-23) (P-2) (P-6) (P-10) (P-10) (2006) (P-10) (P-10) (2006) (P-10)	03/10/2024 42.8 84.5 19.1 31.7 1.21 24.3 07/10/2024 46.9 90.3 21.5 32.3 1.24 29.4 10/10/2024 43.8 86.9 18.2 29.1 1.28 25.8 14/10/2024 46.4 91.6 20.4 28.9 1.18 26.3 17/10/2024 45.9 87.3 17.9 26.9 1.24 23.2 21/10/2024 40.3 82.1 20.8 32.5 1.27 25.1 24/10/2024 41.9 88.4 21.6 31.8 1.21 27.8 28/10/2024 45.4 89.4 19.9 29.7 1.19 24.2 31/10/2024 43.8 91.2 21.8 32.1 1.23 26.9 Q Standard 60 100 80 80 2 100 Methods IS 5182 (P-24) (P-23) (P-27) (P-6) (P-10) (P-9) (P-	03/10/2024 42.8 84.5 19.1 31.7 1.21 24.3 32.6 07/10/2024 46.9 90.3 21.5 32.3 1.24 29.4 36.4 10/10/2024 43.8 86.9 18.2 29.1 1.28 25.8 31.3 14/10/2024 46.4 91.6 20.4 28.9 1.18 26.3 29.5 17/10/2024 45.9 87.3 17.9 26.9 1.24 23.2 32.6 21/10/2024 40.3 82.1 20.8 32.5 1.27 25.1 33.8 24/10/2024 41.9 88.4 21.6 31.8 1.21 27.8 34.7 28/10/2024 45.4 89.4 19.9 29.7 1.19 24.2 35.2 31/10/2024 43.8 91.2 21.8 32.1 1.23 26.9 33.8 Q Standard 60 100 80 80 2 100 400 Methods IS 5182 (P-24) (P-23) 2006 Sec-1) 2006 (P-10) (P-9) (P-9) 1974 2018 S National Ambient Air Quality Standard, immit of Quantification (P-25) 2006 Sec-1) 2006 1999 1974 2018	03/10/2024 42.8 84.5 19.1 31.7 1.21 24.3 32.6 BLQ (LOC-0.1) 07/10/2024 46.9 90.3 21.5 32.3 1.24 29.4 36.4 BLQ (LOC-0.1) 10/10/2024 43.8 86.9 18.2 29.1 1.28 25.8 31.3 BLQ (LOC-0.1) 14/10/2024 46.4 91.6 20.4 28.9 1.18 26.3 29.5 BLQ (LOC-0.1) 17/10/2024 45.9 87.3 17.9 26.9 1.24 23.2 32.6 BLQ (LOC-0.1) 21/10/2024 40.3 82.1 20.8 32.5 1.27 25.1 33.8 BLQ (LOC-0.1) 21/10/2024 41.9 88.4 21.6 31.8 1.21 27.8 34.7 BLQ (LOC-0.1) 24/10/2024 45.4 89.4 19.9 29.7 1.19 24.2 35.2 BLQ (LOC-0.1) 31/10/2024 43.8 91.2 21.8 32.1 1.23 26.9 33.8 BLQ (LOC-0.1) 31/10/2024 43.8 91.2 21.8 32.1 1.23 26.9 33.8 BLQ (LOC-0.1) Q Standard 60 100 80 80 2 100 400 I Methods IS 5182 (P-23) (P-23) (P-23) (P-21) 2006 Sec-1) 2006 Sec-10 2006 Sec-1) 2006 Sec-2023	03/10/2024 42.8 84.5 19.1 31.7 1.21 24.3 32.6 BLQ (a,oq-0.1) BLQ (a,oq-1.0)	03/10/2024 42.8 84.5 19.1 31.7 1.21 24.3 32.6 BLQ (ΔQ=0.1) BLQ (ΔQ=1.0) CQ=1.0) CQ=1.0 CQ=1.0	03/10/2024 42.8 84.5 19.1 31.7 1.21 24.3 32.6 BLQ (αQe-10) (αQe-1



The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied

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 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.

AMBIENT NOISE

QUALITY MONITORING

REPORTS



(ONCE A MONTH - SIX LOCATIONS)

- 1. US 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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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

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

				76						
S. No.	Test Parameter	Unit	Results	VT	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.					
1	Noise Level		ANAL	Area Code	Category of Area / Zone	Day Time (6AM-10PM)	Night Time (10PM-6AM)			
	Leq-Day	dB(A)	60.5	(A)	Industrial Area	75	70			
			1	(B)	Commercial Area	65	55			
	Leq-Night	dB(A)	51.3	(C)	Residential Area	55	45			
				(D)	Silence Zone	50	40			
			End of F	Renort						

End of Report



Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied.

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date of issue of report unless specified.



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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

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

Test Parameter	Unit	Results	VTI	(as per	Requirement r CPCB Guidelines) nits in dB(A) Leg.	
Noise Level		ANAL	Area Code	Category of Area / Zone	Day Time (6AM-10PM)	Night Time (10PM-6AM)
Leq-Day	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
	Noise Level Leq-Day	Noise Level Leq-Day dB(A)	Noise Level Leq-Day dB(A) 58.4	Noise Level Leq-Day dB(A) 58.4 (A) (B) Leq-Night dB(A) 47.5 (C)	Noise Level Area Code Category of Area / Code Leq-Day dB(A) 58.4 (A) Industrial Area (B) Commercial Area Leq-Night dB(A) 47.5 (C) Residential Area	Noise Level Area Category of Area / Day Time (6AM-10PM) Leq-Day dB(A) 58.4 (A) Industrial Area 65 (B) Commercial Area 65 Leq-Night dB(A) 47.5 (C) Residential Area 55

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 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		(as per	Requirement CPCB Guidelines)	
1	Noise Level		ANAL	Area Code	Category of Area / Zone	Day Time (6AM-10PM)	Night Time (10PM-6AM)
	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 R	eport			

Deputy Technical Manage **Authorised Signatory**

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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-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

Sample Description:

Ambient Noise

Date of Monitoring:

17/10/2024

Sampling Duration:

24:00 Hrs

Sampling Location:

Wharf Berth (Inside)

- T-

AAL ENV-20241021024

Date of Receiving:

21/10/2024

Date of Starting:

21/10/2024

Date of Completion:

Report No.

24/10/2024

Date of Reporting:

24/10/2024

Sampling Done By:

AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results		(as pe	Requirement r CPCB Guidelines)	
1	Noise Level		ANAL	Area Code	Category of Area /	Day Time (6AM-10PM)	Night Time (10PM-6AM)
	Leq-Day	dB(A)	61.8	(A)	Industrial Area	75	70
		100	1	(B)	Commercial Area	65	55
	Leq-Night	dB(A)	50.5	(C)	Residential Area	55	45
				(D)	Silence Zone	50	40

End of Report

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. 2. Total liability of our laboratory is limited to the invoice amount.

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 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.



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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. A.

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	VT	(as per	Requirement r CPCB Guidelines) nits in dB(A) Leq.	
1	Noise Level		ANA	Area Code	Category of Area / Zone	Day Time (6AM-10PM)	Night Time (10PM-6AM)
	Leq-Day	dB(A)	62.4	(A)	Industrial Area	75	70
			1	(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
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 not implied.

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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:

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	VT	(as per	Requirement CPCB Guidelines) its in dB(A) Leq.	
1	Noise Level		ANAL	Area Code	Category of Area /	Day Time (6AM-10PM)	Night Time (10PM-6AM)
	Leq-Day	dB(A)	61.6	(A)	Industrial Area	75	70
			1	(B)	Commercial Area	65	55
	Leq-Night	dB(A)	47.8	(C)	Residential Area	55	45
				(D)	Silence Zone	50	40
			End of l	Report			

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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MARINE WATER

REPORTS



(ONCE A MONTH - FIVE LOCATIONS)

- EDA- EASTERN DOCK ARM
- 2. BL-BASE LINE (UPTO 800M WEST)
- 3. WDA-WSTERN DOCK ARM
- 4. ODA-OIL DOCK ARM (DIAPHARAGM 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:

25/10/2024

Sample Location:

EDA - Eastern Dock Arm

Report No.

AAL WQT-20241028002

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	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	n		

^{*}End of Report*

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:

Water Sample (Marine Water)

Sample Collection Date:

25/10/2024

Sample Location:

BL - Base Line (Upto 800m West)

Report No.

AAL WQT-20241028003

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:

TEST	RESU	LT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	F. 1	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	No.	Mr. Burnell	

^{*}End of Report**



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:

Water Sample (Marine Water)

Sample Collection Date:

25/10/2024

Sample Location:

WDA - Western Dock Arm

Report No.

AAL WQT-20241028004

Date of Receiving:

28/10/2024

Date of Starting:

28/10/2024

Date of Completion: Date of Reporting: 07/11/2024 07/11/2024

Sample Quantity:

0 //11/2024 2 Litre

Sample Packing Condition:

Sealed Packed Bottle

Sample Collected By: AAL

Sample Sametra Syr

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	Sec. 27/15	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***



date of issue of report unless specified.

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:

Water Sample (Marine Water)

Sample Collection Date:

25/10/2024

Sample Location:

ODA - Oil Dock Arm (Diaphragm Jetty)

Report No.

AAL WQT-20241028005

Date of Receiving:

28/10/2024

Date of Starting: Date of Completion: 28/10/2024 07/11/2024

Date of Reporting: Sample Quantity: 07/11/2024

Sample Quantity: Sample Packing Condition: 2 Litre Sealed Packed Bottle

Sample Collected By: AA

AAL.

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	pH Value	By Phy	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	antification		

^{**}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:

Water Sample (Marine Water)

Sample Collection Date:

25/10/2024

Sample Location:

LA - Lagoon Area (Turning Circle)

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

TEST	RESU	

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(L0Q=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	on .		

^{*}End of Report**



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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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 (SRTP Waste Water)

Sample Collection Date:

25/10/2024

Sample Source:

Slop Reception Treatment Plant (Oil Separator)

Sample Location:

SRTP at Wharf

Report No.

AAL WQT-20241028007

Date of Receiving:

28/10/2024

Date of Starting:

20/10/2024

Date of Completion:

28/10/2024

Date of Reporting:

07/11/2024 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	TANA	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 (asC 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**



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 not 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.

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 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.



AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED LABORATORY

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-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

Sample Description:

Water Sample (1.2 MLD STP Water)

Sample Collection Date:

25/10/2024

Sample Source: Sample Location: 1.2 MLD SBR Technology STP Near KK Gate NMPA Mangalore Report No. AAL WQT-20241028008

Date of Receiving: Date of Starting:

28/10/2024 28/10/2024

Date of Completion: Date of Reporting: Sample Quantity:

07/11/2024 07/11/2024 2 Litre

Sample Packing Condition:

Sealed Packed Bottle

Sample Collected By: AAL

TEST RESULT

		IESI R	ESULI		
S. No.		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	TANAL	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	S <1.0	5 Max.	IS 3025(P-34/Sec-1)-2023
13	Phenolic Compound (asC 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



SH SRIVASTAVA Technica Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. Total liability of our laboratory is limited to the invoice amount.

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date of issue of report unless specified.