

Kamarajar Port Limited

Vallur Post, Chennai-600 120, Tamil Nadu, India

Reports on Environmental Monitoring of Kamarajar Port Limited





Study Period: June 2025

Prepared By



NITYA LABORATORIES

Address: Plot No.118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabgarh,

Faridabad, Delhi NCR, India

Tel.: +91-129-2241021

Mobile No.: +91-9873924093, +91-9013591021, +91-9013552273

E-Mail ID: info@nityalab.com Website: www.nityalab.com



BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

NITYA LABORATORIES

43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

+91-191-2465597

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Effluent (Sewage) Monitoring	18-20
3	Test Reports of Borewell Water Monitoring	21-23
4	Test Reports of Surface Water Monitoring	24-30
5	Test Reports of Marine Water Monitoring	31-43
6	Test Reports of Marine Sediments Monitoring	44-45





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1.

Test Reports of Ambient Air Quality Monitoring

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Issued To

M/s Kamarajar Port Trust

ULR No .:

TC148142500003436F, 3516F, 3639F, 3746F, 3829F

3978F, 4059F, 4075F

Vallur Post, Chennai, India

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling		C	concentration		
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) μg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	03/06/2025	23.60	56.20	14.50	23.20	ND
2	06/06/2025	27.50	53.80	13.20	22.40	ND
3	09/06/2025	23.50	54.00	14.60	28.10	ND
4	12/06/2025	25.10	58.00	12.90	21.20	ND
5	16/06/2025	28.40	52.00	16.20	29.20	ND
6	19/06/2025	21.50	56.50	14.50	27.30	ND
7	23/06/2025	24.00	58.00	15.30	23.30	ND
8	26/06/2025	20.90	52.50	16.50	26.00	ND
9	30/06/2025	24.50	55.00	17.20	27.20	ND
NAAQM Standards		60	100	80	80	2
Test Method	er at a second	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2) .	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected. DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board





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3

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M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506030110-117

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration	
		Methane (%)	
1	03/06/2025	ND	
2	06/06/2025	ND	
3	09/06/2025	ND	
4	12/06/2025	ND	
5	16/06/2025	ND ,	
6	19/06/2025	ND	
7	23/06/2025	ND	
8	26/06/2025	ND	
9	30/06/2025	ND	
est Method		PID Based Methane Analyser	

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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Issued To

M/s Kamarajar Port Trust

ULR No .:

TC148142500003437F, 3517F, 3640F, 3747F, 3830F

3979F, 4060F, 4076F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Guest House

IS 5182 (Part 14)

Mr. Surva

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling		C	Concentration		
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	03/06/2025	25.20	31.20	13.20	19.20	ND
2	06/06/2025	23.20	34.50	14.50	26.20	ND
3	09/06/2025	25.50	44.00	15.00	29.20	ND
4	12/06/2025	24.60	38.20	12.60	25.50	ND
5	16/06/2025	23.30	41.20	13.40	28.20	ND
6	19/06/2025	25.50	45.20	15.60	26.00	ND
7	23/06/2025	26.00	34.10	13.60	29.00	ND
8	26/06/2025	27.70	31.00	15.80	24.00	ND
9	30/06/2025	26.20	32.20	14.30	23.60	ND
NAAQM Standards		60	100	80	80	2
Test Method	= 1	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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[5]

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M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506030118-125

0.0002

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Guest House

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/06/2025	ND
2	06/06/2025	ND .
3	09/06/2025	ND
4	12/06/2025	ND
5	16/06/2025	ND
6	19/06/2025	ND
7	23/06/2025	ND
8	26/06/2025	ND
9	30/06/2025	ND
est Method		PID Based Methane Analyser

Remark

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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M/s Kamarajar Port Trust

ULR No .:

TC148142500003438F, 3518F, 3641F, 3748F, 3831F

3980F, 4061F, 4077F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration					
	5	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3	
1	03/06/2025	30.20	51.20	15.60	26.40	ND	
2	06/06/2025	32.20	54.00	16.40	23.20	ND	
3	09/06/2025	27.30	43.20	13.20	28.00	ND	
4	12/06/2025	30.20	47.60	17.50	22.30	ND	
5	16/06/2025	29.00	52.20	14.20	19.20	ND	
6	19/06/2025	28.40	54.00	15.60	28.50	ND	
7	23/06/2025	26.20	56.00	13.30	30.20	ND	
8	26/06/2025	29.10	57.20	16.40	28.60	ND	
9	30/06/2025	26.50	55.20	18.30	26.00	ND	
NAAQM Standards		60	100	80	80	2	
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board





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M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.: Test Report Date: 202506030126-133 07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

: Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/06/2025	ND
2	06/06/2025	ND
3	09/06/2025	ND
4	12/06/2025	ND
5	16/06/2025	ND
6	19/06/2025	ND
7	23/06/2025	ND
8	26/06/2025	ND
9	30/06/2025	ND
est Method		PID Based Methane Analyser

Remark

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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ULR No .:

TC148142500003439F, 3519F, 3642F, 3749F, 3832F,

3981F, 4062F, 4078F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling		Concentration					
	a an	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3		
1	03/06/2025	27.40	45.60	15.30	26.00	ND		
2	06/06/2025	24.10	52.60	14.00	22.10	ND		
3	09/06/2025	25.40	51.00	16.20	25.50	ND		
4	12/06/2025	22.60	49.20	15.80	22.30	ND		
5	16/06/2025	21.80	55.10	18.60	23.90	ND		
6	19/06/2025	22.30	56.20	14.10	27.70	ND		
7	23/06/2025	25.50	47.20	16.40	26.50	ND		
8	26/06/2025	26.40	46.60	16.90	24.10	ND		
9	30/06/2025	27.30	48.40	17.20	25.20	ND		
NAAQM Standards		60	100	80	80	2		
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)		

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506030134-141

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration
	-	Methane (%)
1	03/06/2025	ND
2	06/06/2025	ND-
3	09/06/2025	ND
4	12/06/2025	ND
5	16/06/2025	ND
6	19/06/2025	ND
7	23/06/2025	ND
. 8	26/06/2025	ND
9	30/06/2025	ND
est Method		PID Based Methane Analyser

Remark

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration. of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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M/s Kamarajar Port Trust

ULR No .:

TC148142500003440F, 3520F, 3643F, 3750F, 3833F, 3982F, 4063F, 4079F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling		C	oncentration		
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	03/06/2025	29.00	35.20	22.10	27.20	ND
2	06/06/2025	32.40	40.50	24.50	25.50	ND
3	09/06/2025	20.10	38.20	26.60	28.40	ND
4	12/06/2025	21.40	43.20	21.50	25.70	ND
5	16/06/2025	24.00	46.20	28.40	32.30	ND
6	19/06/2025	31.50	47.10	26.10	30.50	ND
7	23/06/2025	27.00	43.20	23.10	29.40	ND
8	26/06/2025	26.90	39.40	25.10	28.60	ND
9	30/06/2025	28.20	41.20	24.90	29.40	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board







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11

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506030142-149

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/06/2025	ND
2	06/06/2025	ND
3	09/06/2025	ND
4	12/06/2025	ND
5	16/06/2025	ND
6	19/06/2025	ND
7	23/06/2025	ND
8	26/06/2025	ND
9	30/06/2025	ND .
est Method		PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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12

Issued To

M/s Kamarajar Port Trust

ULR No .:

TC148142500003441F, 3550F, 3644F, 3751F, 3834F, 3983F,

4064F, 4080F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	03/06/2025	28.20	44.20	22.50	28.50	ND
2	06/06/2025	29.70	40.20	21.60	27.70	ND
3	09/06/2025	35.20	41.20	20.60	29.10	ND
4	12/06/2025	30.20	42.10	21.30	26.00	ND
5	16/06/2025	29.40	43.10	20.70	33.20	ND
6	19/06/2025	32.30	42.20	19.60	32.40	ND
7	23/06/2025	29.10	39.90	20.30	34.10	ND
8	26/06/2025	27.10	44.20	23.30	29.40	ND
9	30/06/2025	26.80	41.60	21.80	27.10	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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13

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506030150-157

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/06/2025	ND
2	06/06/2025	ND
3	09/06/2025	ND
4	12/06/2025	ND
5	16/06/2025	ND
6	19/06/2025	ND
7	23/06/2025	, ND
8	26/06/2025	ND
9	30/06/2025	ND
est Method		PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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Issued To M/s Kamarajar Port Trust

ULR No .:

TC148142500003452F, 3551F, 3645F, 3752F, 3835F, 3984F,

4065F, 4081F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling		C	Concentration		
	e.	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	03/06/2025	32.50	29.90	22.50	28.40	ND
2	06/06/2025	31.40	41.10	23.60	25.70	ND
3	09/06/2025	30.60	40.20	25.70	30.50	ND
4	12/06/2025	26.40	38.60	21.10	33.70	ND
5	16/06/2025	25.90	39.00	22.50	25.60	ND
6	19/06/2025	28.60	38.90	27.40	29.10	ND
7	23/06/2025	27.10	40.00	26.60	28.60	ND
8	26/06/2025	28.80	41.60	23.20	27.00	ND
9	30/06/2025	26.90	42.20	21.90	26.10	ND
NAAQM Sta	ndards	60	100	80	80	2
Test Method	L	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected. DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

CHECKED BY (SANDEEP SAINI)



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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506030158-165

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration		
		Methane (%)		
1	03/06/2025	ND		
2	06/06/2025	ND		
3	09/06/2025	ND		
4	12/06/2025	ND .		
5	16/06/2025	ND		
6	19/06/2025	ND		
7	23/06/2025	ND		
8	26/06/2025	ND		
9	30/06/2025	ND		
est Method		PID Based Methane Analyser		

Remark

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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Issued To M/s Kamarajar Port Trust

ULR No .:

TC148142500003453F, 3552F, 3646F, 3753F, 3836F, 3985F, 4066F, 4082F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

: Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling		C	Concentration		
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) μg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1.	03/06/2025	26.40	40.40	21.20	26.70	ND
2.	06/06/2025	25.20	41.60	20.40	31.20	ND
3.	09/06/2025	27.40	40.00	23.20	33.40	ND
4.	12/06/2025	30.20	49.20	23.60	31.20	ND -
5.	16/06/2025	25.20	48.20	19.20	25.50	ND
6.	19/06/2025	26.60	47.60	17.60	23.70	ND
7.	23/06/2025	29.40	49.60	18.40	26.40	ND
8.	26/06/2025	24.60	48.00	20.20	25.00	ND
9.	30/06/2025	25.50	46.20	19.90	23.70	ND
NAAQM Sta	ndards	60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration. of a substance that can be accurately measured under specified experimental conditions Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506030166-173

validi Fost, Chemiai, muia

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Surya

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/06/2025	ND .
2	06/06/2025	ND
3	09/06/2025	ND
4	12/06/2025	ND
5	16/06/2025	ND
6	19/06/2025	ND
7	23/06/2025	ND
8	26/06/2025	ND
9	30/06/2025	
est Method		PID Based Methane Analyser

Remark

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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18

Test Reports of Wastewater (STP)

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

ULR No .:

TC148142500003781F-3782F

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Wastewater (STP)

Sample Quantity & Packaging

1.0 Liter, Pet Bottle (Each)

Sample Received at Lab

20/06/2025

Test Started On

20/06/2025

Test Completed On

26/06/2025

Method of Sampling

SOP/B/D-3

Date of Sampling

17/06/2025

Monitoring Conducted By

Mr. Surya

Sample Description

W-1: STP O/L of Admin Building

W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible	Protocol
			W-1	W-2	Limits	
1	рН	***	7.52	7.37	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	80	160	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	50	42	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	10	9	30	IS:3025 (P-44)



CHECKED BY (SANDEEP SAINI) (RAVINDER MITTAL

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M/s Kamarajar Port Trust Vallur Post, Chennai, India Test Report No.:

202506170110-111

Test Report Date:

27/06/2025

Sample Particulars

Issued To

Nature of the Sample

Wastewater (STP)

Sample Quantity & Packaging

1.0 Liter, Pet Bottle (Each)

Sample Received at Lab

20/06/2025

Test Started On

20/06/2025

Test Completed On

26/06/2025

Method of Sampling

SOP/B/D-3

Date of Sampling

17/06/2025

Monitoring Conducted By

Mr. Surya

Sample Description

W-1: STP O/L of Admin Building

W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Result		Result		Permissible	Protocol
			W-1	W-2	Limits					
1	Faecal Coliform*	MPN/100 ml	302	542 .	<1000	IS:1622				

CHECKED BY (SANDEEP SAINI) (AUTHORISED SIGNATORY)

(DHANU PRIYA*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL

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21

Test Reports of Borewell Water

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Issued To M/s Kamarajar Port Trust

ULR No .:

TC148142500003783F-3784F

Vallur Post, Chennai, India

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Ground Water

Sample Quantity & Packaging

3.0 Liter, Sterilized Pet Bottle (Each)

Sample Received at Lab

20/06/2025

Test Started On

20/06/2025

Test Completed On

Method of Sampling

26/06/2025

SOP/B/D-3

Date of Sampling

17/06/2025

Monitoring Conducted By

Mr. Surva

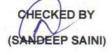
Sample Description

GW1: Near Temple Borewell

GW2: CISF Quarter Guard Borewell

Analysis Report

Sr. No.	Parameters	Unit	Test F	Results	Protocol
			GW-1	GW-2	
1	рН	-	7.74	7.82	IS:3025 (P-11)
2	Nitrite	mg/l	ND .	ND	IS:3025 (P-34)
3	Electrical Conductivity	µs/cm	2840	1360	IS:3025 (P-14)
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.
5	Total Dissolved Solids	mg/l	1820	860	IS:3025 (P-16)
6	Sulphate as SO ₄	mg/l	59.20	52.30	APHA 23 rd Ed.
7	Nitrates as NO ₃	mg/l	0.17	5.40	IS:3025 (P-34)
8	Total Suspended Solids	mg/l	10	8	IS:3025 (P-17)
9	Dissolved Oxygen as DO	mg/l	5.9	5.7	IS:3025 (P-38)
10	Biological Oxygen Demand	mg/l	ND	ND	IS:3025 (P-44)
11	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.
12	Iron (as Fe)	mg/l	0.16	0.10	APHA 23 rd Ed.
13	Zinc as Zn	mg/l	0.24	0.30	APHA 23 rd Ed.
14	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.
15	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.
16	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.
17	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.
18	Oil & Grease	mg/l	ND	ND	IS:3025 (P-39)





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Issued To M/s Kamarajar Port Trust

Test Report No .:

202506170130

Vallur Post, Chennai, India

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Ground Water

Sample Quantity & Packaging

3.0 Liter, Sterilized Pet Bottle (Each)

Sample Received at Lab

20/06/2025

Test Started On

20/06/2025

Test Completed On

26/06/2025

Method of Sampling

20/00/2020

Date of Sampling

SOP/B/D-3

Date of Sampling

17/06/2025

Monitoring Conducted By Sample Description Mr. Surya

GW1: Near Temple Borewell

GW2: CISF Quarter Guard Borewell

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol
			GW-1	GW-2	
1	Salinity	PPT	1.92	1.00	IS:3025 (P-34)
2	PO ₄	mg/l	0.12	0.16	IS:3025 (P-31)

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Test Reports of Surface Water

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

ULR No .:

TC148142500003785F-3787F

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Surface Water

3.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

SW1: Creek Mouth

SW2: Opp. to Main Gate

SW3: Opp. to West Gate **Analysis Report**

Sr. No.	Parameters	Unit		Test Results		
	11		SW-1	SW-2	SW-3	-
1	рН	and a	7.32	7.82	7.59	IS:3025 (P-11
2	Temperature	°C	26.0	26.3	26.5	IS:3025 (P-9)
3	Electrical Conductivity	µs/cm	362	402	370	IS:3025 (P-14
4	Turbidity	NTU	<1	<1	<1	APHA 23 rd Ed
5	Total Dissolved Solids	mg/l	230	260	240	IS:3025 (P-16
6	Sulphate as SO ₄	mg/l	15.60	18.20	17.60	APHA 23rd Ed
7	Nitrates as NO ₃	mg/l	0.52	0.68	0.80	IS:3025 (P-34
8	Total Ammonia	mg/l	ND	ND ·	ND	IS:3025 (P-34
9	Total Suspended Solids	mg/l	12	10	8	IS:3025 (P-17
10	Dissolved Oxygen as DO	mg/l	6.4	6.2	6.1	IS:3025 (P-38
11	Biological Oxygen Demand	mg/l	9	10	7	IS:3025 (P-44
12	Chemical Oxygen Demand	mg/l	46	52	40	IS:3025 (P-58
13	Copper as Cu	mg/l	ND	ND	ND	APHA 23rd Ed
14	Iron (as Fe)	mg/l	0.28	0.36	0.21	APHA 23rd Ed
15	Zinc as Zn	mg/l	0.30	0.34	0.26	APHA 23 rd Ed.
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	ND [DL-0.001]	APHA 23rd Ed.
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.
19	Cadmium as Cd	mg/l	ND	ND	ND	APHA 23 rd Ed.

Remark

DL-Detection Limit

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Issued To

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Vallur Post, Chennai, India

Test Report No .:

202506170120-122

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Surface Water

3.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

SW1: Creek Mouth

SW2: Opp. to Main Gate

SW3: Opp. to West Gate **Analysis Report**

Sr. No.	Parameters	Unit		Protocol		
			SW-1	SW-2	SW-3	
1	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.
2	Chlorophyll A	mg/l	0.78	0.62	0.50	APHA 23 rd Ed.
3	Phaeophytin	mg/m ³	14.20	16.40	17.20	APHA 23rd Ed
4	Salinity	PPT	0.25	0.28	0.27	EC Meter
5	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34
6	Total Nitrogen as N	mg/l	0.86	1.04	1.16	IS:3025 (P-34
7	Inorganic Phosphate	mg/l	0.23	0.32	0.26	IS:3025 (P-31)
8	Total Phosphate as P	mg/l	0.34	0.44	0.36	IS:3025 (P-31)
9	Faecal Coliform*	MPN/100ml	253	486	343	IS:1622

Remark: DL-Detection Limit

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(DHANU PRIYA*)

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Vallur Post, Chennai, India

Test Report No .:

202506170120-122

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Surface Water

3.0 Liter, Plastic Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

SW1: Creek Mouth

SW2: Opp. to Main Gate SW3: Opp. to West Gate

Analysis Report

Sr. No.	Parameters		Test Results	Test Results					
		SW-1	SW-2	SW-3	-				
1	Phytoplankton* (64 um mesh)								
	Biomass	1.20	1.6	3.9	APHA 23 rd Ed.				
	Diversity	2.9	1.8	4.1	NL/SOP/MB/PHP/3				
	Species	Cerataulina pelagica, Dinobryon sertularia, Microcystic aeruginosa,	Euglena acus, Gloeocapsa atrata, Actiniscus pentasterias , Cerataulina pelagica	Euglena acus, Pediastrum boryanum, Pediastrum boryanum	APHA 23 rd Ed.				
2	Zooplankton* (200 um mesh)								
	Biomass	0.016	0.040	0.049	APHA 23 rd Ed.				
	Diversity	3.1	1.7	2.7	NL/SOP/MB/ZP/30				
	Species	Globigerina bulloides, Daphnia longispina, Ankistrodesmus falcatus	Cyclops varicans, Paracala nusparvus, Synecho cystisminuscula	Keratella quadrata, Moina micnum, Daphnia longispina	APHA 23 rd Ed.				
3	Benthos*								
	Species	Elphidium hispidulum, Cyphon larva, Bellamya bengalensis	Nonion boueanum , Psephenoidinae gyrinidae,	Cymadusa pathyi , , Thiara tuberculata, Musca domestica.	APHA 23 rd Ed.				

CHECKED BY (SANDEEP SAINI)

(DHANU PRIYA*)

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Vallur Post, Chennai, India

ULR No .:

TC148142500003788F-3789F

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Surface Water

3.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

KV1: Kosathalai River

KV2: Kosathalai River

Analysis Report

Sr. No.	Parameters	Unit	Test F	Results	Protocol
			KV-1	KV-2	
1	рН		7.32	7.86	IS:3025 (P-11)
2	Temperature	°C	25.8	25.9	IS:3025 (P-9)
3	Electrical Conductivity	µs/cm	368	410	IS:3025 (P-14)
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.
5	Total Dissolved Solids	mg/l	232	262	IS:3025 (P-16)
6	Sulphate as SO ₄	mg/l	16.50	18.10	APHA 23 rd Ed.
7	Nitrates as NO ₃	mg/l	0.56	0.70	IS:3025 (P-34)
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)
9	Total Suspended Solids	mg/l	14	12	IS:3025 (P-17)
10	Dissolved Oxygen as DO	mg/l	6.4	6.2	IS:3025 (P-38)
11	Biological Oxygen Demand	mg/l	9	10	IS:3025 (P-44)
12	Chemical Oxygen Demand	mg/l	42	- 50	IS:3025 (P-58)
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.
14	Iron (as Fe)	mg/l	0.28	0.40	APHA 23 rd Ed.
15	Zinc as Zn	mg/l	0.30	0.34	APHA 23 rd Ed.
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.

DL-Detection Limit

CHECKED BY (SANDEEP SAINI)



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Issued To

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Vallur Post, Chennai, India

Test Report No.:

202506170154-155

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Surface Water

Sample Quantity & Packaging

3.0 Liter, Sterilized Pet Bottle (Each)

Sample Received at Lab

20/06/2025

Test Started On

20/06/2025

Test Completed On

26/06/2025

Method of Sampling

SOP/B/D-3

Date of Sampling

17/06/2025

Monitoring Conducted By

Mr. Surya

Sample Description

KV1: Kosathalai River

KV2: Kosathalai River

Analysis Report

Sr. No.	Parameters	Parameters Unit		Test Results		
			KV-1	KV-2		
1	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	
2	Chlorophyll A	mg/l	0.80	0.70	APHA 23 rd Ed.	
3	Phaeophytin	mg/m³	16.20	18.60	APHA 23 rd Ed	
4	Salinity	PPT	0.25	0.28	EC Meter	
5	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	
6	Total Nitrogen as N	mg/l	0.82	0.98	IS:3025 (P-34)	
7	Inorganic Phosphate	mg/l	0.22	0.33	IS:3025 (P-31)	
8	Total Phosphate as P	mg/l	0.32	0.43	IS:3025 (P-31)	
9	Faecal Coliform*	MPN/100ml	278	503	IS:1622	

Remark

DL-Detection Limit

CHECKED BY

(AUTHORISED SIGNATORY)

(DHANU PRIYA*)

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Vallur Post, Chennai, India

Test Report No .:

202506170154-155

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Surface Water

3.0 Liter, Plastic Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

17/06/202

Mr. Surya

KV1: Kosathalai River KV2: Kosathalai River Analysis Report

Sr. No.	Parameters	Test Resu	ults	Protocol				
		KV-1	KV-2	-				
1	Phytoplankton* (64 um mesh)							
	Biomass	1.28	2.1	APHA 23 rd Ed.				
	Diversity	2.2	1.9	NL/SOP/MB/PHP/3				
	Species	Metacylisjor genseni , Dinobryon sertularia , Ceratium belone Bacteriastrum hyalinum ,	Anabaena spiroids, Gloeocapsa atrata, Actiniscus pentasterias	APHA 23 rd Ed.				
2	Zooplankton* (200 um mesh)							
	Biomass	0.031	0.050	APHA 23 rd Ed.				
	Diversity	2.4	1.7	NL/SOP/MB/ZP/30				
	Species	Cyclops vicinus, Daphnia longispina, Globigerina bulloides	Brachionus nilsoni, Paracala nusparvus , Synecho cystisminuscula	APHA 23 rd Ed.				
3	Benthos*		oj o do mina o o dia					
	Species	Thiara scabra, Cymadusa pathyi, Cyphon larva, Bellamya bengalensis	Aethephemera nadiinae, Psephenoidinae gyrinidae,	APHA 23 rd Ed.				

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(DHANU PRIYA*)

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RAVINDER MITTAL

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+91-129-2241021

1 +91-9013591021, +91-9013552273

labsnitya@gmail.com



BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

• 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

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Test Reports of Marine Water

CHECKED BY (SANDEEP SAINI)

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32

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170123-124

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample Sample Quantity & Packaging

Sample Received at Lab Test Started On Test Completed On Method of Sampling Date of Sampling

Monitoring Conducted By Sample Description Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025 20/06/2025 26/06/2025 SOP/B/D-3 17/06/2025 Mr. Surya

MW1: Near GCB (Surface) MW2: Near GCB (Bottom 1.5m)

Analysis Report

Sr.	Parameters	Unit	Test	Results	Protocol	SW-Class-IV	
No.			MW-1	MW-2		Harbour Standards	
1	pH	•	8.02	8.10	IS:3025 (P-11)	6.0-9.0	
2	Temperature	°C	25.9	25.5	IS:3025 (P-9)	-	
3	Electrical Conductivity	µs/cm	45620	46240	· IS:3025 (P-14)	-	
4	Turbidity	NTU	2.9	2.0	APHA 23rd Ed.	-	
5	Total Dissolved Solids	mg/l	29650	30040	IS:3025 (P-16)	_	
6	Sulphate as SO ₄	mg/l	2200	2300	APHA 23rd Ed.	_	
7	Nitrates as NO ₃	mg/l	2.50	2.70	IS:3025 (P-34)	-	
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-	
9	Total Suspended Solids	mg/l	16	12	IS:3025 (P-17)	-	
10	Dissolved Oxygen as DO	mg/l	6.4	6.1	IS:3025 (P-38)	3.0	
11	Biological Oxygen Demand	mg/l	8	5	IS:3025 (P-44)	5.0	
12	Chemical Oxygen Demand	mg/l	48	36	IS:3025 (P-58)	-	
13	Copper as Cu	mg/l	0.10	0.14	APHA 23 rd Ed.	_	
14	Iron (as Fe)	mg/l	0.12	0.13	APHA 23 rd Ed.	-	
15	Zinc as Zn	mg/l	0.24	0.28	APHA 23rd Ed.	-	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23rd Ed.	(i=)	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.	-	
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.		
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-	
21	Chlorophyll A	mg/l	1.18	1.24	APHA 23 rd Ed.		
22	Phaeophytin	mg/m³	14.20	13.60	APHA 23 rd Ed.		
23	Salinity	PPT	30.20	30.90	EC Meter	-	
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-	
25	Total Nitrogen as N	mg/l	2.70	2.92	IS:3025 (P-34)		
26	Inorganic Phosphate	mg/l	0.30	0.38	IS:3025 (P-31)	7	
27	Total Phosphate as P	mg/l	0.40	0.49	IS:3025 (P-31)	-	
28	Faecal Coliform*	MPN/100 ml	180	253		500/100 ml	

Remark

ND-Not Detected

CHECKED BY

(AUTHORISED SIGNATORY)

(DHANU PRIYA*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL

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+91-129-2241021

III +91-9013591021, +91-9013552273

labsnitya@gmail.com



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202506170123-124

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

MW1: Near GCB (Surface)

MW2: Near GCB (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test	Results	Protocol	
		MW-1	MW-2		
1	Phytoplankton* (64	um mesh)			
	Biomass	3.2	2.8	APHA 23 rd Ed.	
	Diversity	1.7	2.2		
	Species	Pyrocystis fusiformis, Laudaria annulata, Peridinum elegans, Cerataulina pelagica	Ditylum brightwellii, Naviculla sigma, Lauderiaan nulata, Laudaria, Acinocyclus octonarius		
2	Zooplankton* (200 um mesh)				
	Biomass	0.042	0.058	APHA 23 rd Ed.	
	Diversity	2.9	2.2	1	
	Species	Farranula carinata, Eucalanus calocalanuspova, Corycaeus dana	Eutintinnus tenue, Cresis acicula, Undinula vulgaris, Oithona nana,		
3	Benthos*				
. 4.	Species	Standellani cobarica Tapes belcheri, Magelonacincta communis, Spiroloculina, Syllisferrugina, Ammobaculites exiguus	Persephona mediterranea, Cancris oblonga Oikopleura dioica, Ancilla ampla	APHA 23 rd Ed.	

(SANDEEP SAINI)

(DHANU PRIYA*)

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34

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170125-126

Test Report Date:

27/06/2025

Sample Particulars

Sample Description

Nature of the Sample
Sample Quantity & Packaging
Sample Received at Lab
Test Started On
Test Completed On
Method of Sampling
Date of Sampling
Monitoring Conducted By

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025 20/06/2025 26/06/2025 SOP/B/D-3 17/06/2025 Mr. Surya

MW3: Near MLT Berth (Surface) MW4: Near MLT Berth (Bottom 1.5 m)

Analysis Report

Sr.	Parameters	Unit	Test I	Results	Protocol	SW-Class-IV	
No.			MW-3	MW-4		Harbour Standards	
1	pH	-	7.52	7.69	IS:3025 (P-11)	6.0-9.0	
2	Temperature	°C	25.5	25.2	IS:3025 (P-9)	-	
3	Electrical Conductivity	µs/cm	37940	38620	IS:3025 (P-14)	-	
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-	
5	Total Dissolved Solids	mg/l	24650	25100	IS:3025 (P-16)	•	
6	Sulphate as SO ₄	mg/l	1700	1800	APHA 23 rd Ed.		
7	Nitrates as NO ₃	mg/l	2.80	3.02	IS:3025 (P-34)		
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-	
9	Total Suspended Solids	mg/l	18	12	IS:3025 (P-17)	-	
10	Dissolved Oxygen as DO	mg/l	6.1	5.8	IS:3025 (P-38)	3.0	
11	Biological Oxygen Demand	mg/l	6	8	IS:3025 (P-44)	5.0	
12	Chemical Oxygen Demand	mg/l	36	46	IS:3025 (P-58)	-	
13	Copper as Cu	mg/l	0.08	0.12	APHA 23rd Ed.	-	
14	Iron (as Fe)	mg/l	0.15	0.20	APHA 23rd Ed.	-	
15	Zinc as Zn	mg/l	0.32	0.44	APHA 23rd Ed.	-	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.	-	
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.	_	
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	_	
21	Chlorophyll A	mg/l	1.40	1.36	APHA 23 rd Ed.		
22	Phaeophytin	mg/m³	16.20	13.60	APHA 23 rd Ed.		
23	Salinity	PPT	25.90	26.80	· EC Meter	-	
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	- 1 H	
25	Total Nitrogen as N	mg/l	3.40	3.60	IS:3025 (P-34)	-	
26	Inorganic Phosphate	mg/l	0.26	0.32	IS:3025 (P-31)		
27	Total Phosphate as P	mg/l	0.38	0.44	IS:3025 (P-31)		
28	Faecal Coliform*	MPN/100 ml	212	175	IS:1622	500/100 ml	

Remark

ND-Not Detected

CHECKED BY (SANDEEP SAINI) (AUTHORISED SIGNATORY)

(DHANU PRIYA*)

(AUTHORISED SIGNATORY)

RAVINDER MITTAL

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43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

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35

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202506170125-126

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Supra

Mr. Surya

MW3: Near MLT Berth (Surface)

MW4: Near MLT Berth (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters		Results	Protocol	
		MW-3	MW-4		
1	Phytoplankton* (64	um mesh)			
	Biomass	2.2	4.1	APHA 23 rd Ed.	
	Diversity	3.7	2.8		
	Species	Laudria annulata, Rhabdonema magnificum, Bacteriastrum cosmosum	Skeletonema costatum, Peridinium claudicans Thalassionema nitzschioides, Ceratim furca,		
2	Zooplankton* (200 um mesh)				
	Biomass	0.042	0.064	APHA 23 rd Ed.	
	Diversity	2.4	3.1		
	Species	Corycaeidae catus, Euterpina acutifrons, Tortanus barbatus,	Bacteriastrum rhombus, Rhincalanus gigas, Bivalve velger, , Penilia avirostris,		
3	Benthos*		· · · · · · · · · · · · · · · · · · ·		
	Species	Nassarius dorsatus Spiroloculina henbesti, Jasmineira elegans,	Prionos piocirrifera, Eponides repandus, Sinumneritoi derum, Pinna bicolour	APHA 23 rd Ed.	

CHECKED BY (SANDEEP SAINI) (AUTHORISED SIGNATORY)

(DHANU PRIYA*)

(AUTHORISED SIGNATORY)

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Vallur Post, Chennai, India

Test Report No.:

202506170127-128

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab Test Started On

Test Completed On Method of Sampling

Date of Sampling Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025 20/06/2025 26/06/2025

SOP/B/D-3 17/06/2025 Mr. Surya

MW5: Near Finger Jetty (Surface) MW6: Near Finger Jetty(Bottom 1.5 m)

Analysis Report

Sr.	Parameters	Unit	Test F	Results	Protocol	SW-Class-IV	
No.			MW-5	MW-6		Harbour Standards	
1	pH	-	7.92	8.04	IS:3025 (P-11)	6.0-9.0	
2	Temperature	°C	26.6	26.4	IS:3025 (P-9)	-	
3	Electrical Conductivity	μs/cm	40820	42260	IS:3025 (P-14)	-	
4	Turbidity	NTU	2.8	2.5	APHA 23 rd Ed.	-	
5	Total Dissolved Solids	mg/l	26520	27200	IS:3025 (P-16)	•	
6	Sulphate as SO ₄	mg/l	1800	2200	APHA 23 rd Ed.	•	
7	Nitrates as NO ₃	mg/l	3.50	4.20	IS:3025 (P-34)	-	
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)		
9	Total Suspended Solids	mg/l	18	14	IS:3025 (P-17)	-	
10	Dissolved Oxygen as DO	mg/l	6.2	5.8	IS:3025 (P-38)	3.0	
11	Biological Oxygen Demand	mg/l	6	7	IS:3025 (P-44)	5.0	
12	Chemical Oxygen Demand	mg/l	30	40	IS:3025 (P-58)	-	
13	Copper as Cu	mg/l	0.10	0.14	APHA 23rd Ed.	-	
14	Iron (as Fe)	mg/l	0.19	0.26	APHA 23rd Ed.	-	
15	Zinc as Zn	mg/l	0.28	0.32	APHA 23rd Ed.	-	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23rd Ed.	-	
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.	121	
19	Cadmium as Cd	mg/l	ND	ND	APHA 23rd Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23rd Ed.	-	
21	Chlorophyll A	mg/l	1.36	1.48	APHA 23 rd Ed.	1 25	
22	Phaeophytin	mg/m ³	14.20	16.40	APHA 23 rd Ed.		
23	Salinity	PPT	28.20	29.10	EC Meter	-	
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)		
25	Total Nitrogen as N	mg/l	3.92	4.46	IS:3025 (P-34)	14	
26	Inorganic Phosphate	mg/l	0.33	0.40	IS:3025 (P-31)	-	
27	Total Phosphate as P	mg/l	0.45	0.52	IS:3025 (P-31)	-	
28	Faecal Coliform*	MPN/100 ml	348	426	IS:1622	500/100 ml	

CHECKED BY (SANDEEP SAINI) (AUTHORISED SIGNATORY)

(DHANU PRIYA*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202506170127-128

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025 SOP/B/D-3

17/06/2025

Mr. Surya

MW5: Near Finger Jetty (Surface)

MW6: Near Finger Jetty (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Tes	t Results	Protocol
		MW-5	MW-6	
1	Phytoplankton* (64 u	ım mesh)	,	
	Biomass	1.8	2.5	APHA 23 rd Ed.
	Diversity	3.2	4.8	
	Species	Eucampia cornuta, Ditylum brightwelli Chaetoceros didymus, ,	Aglaurahe mistoma, Guninardia flaccida, Fragilariopsis oceanic, Coscinoddiscus radiates,	
2	Zooplankton* (200 ui			
	Biomass	0.058	0.042	APHA 23 rd Ed.
	Diversity	3.4	2.2	
	Species	Hyalocylix striata, Dosinia trigona, Paracandacia truncatta,	Paracalanus parvus, Oithona brevicornis, Copipod naupliii, Gastropod veliger,	
3	Benthos*		, , , , , , , , , , , , , , , , , , , ,	
-3 1-	Species	Spiroloculina depressa , Laternula anatine, Macoma birmanic,	Melinna cristate, Conus canonicus, Pugilina coachlidium, Trochammina inflate	APHA 23 rd Ed.

ND-Not Detected

(SANDEEP SAINI)

(DHANU PRIYA*)

VINDER MITTAL

CORPORATE OFFICE & CENTRAL LABORATORIES:-



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38

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Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170129-130

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

MW7: Outer South-North Break Water (Surface)

MW8: Outer South-North Break Water (Bottom 1.5 m)

Analysis Report

Sr.	Parameters	Unit	Unit Test Results		Protocol	SW-Class-IV	
No.			MW-7	MW-8		Harbour Standards	
1	pH	-	8.10	8.17	IS:3025 (P-11)	6.0-9.0	
2	Temperature	°C	26.3	26.1	IS:3025 (P-9)	-	
3	Electrical Conductivity	µs/cm	44820	46180	IS:3025 (P-14)		
4	Turbidity	NTU	3.2	3.0	APHA 23 rd Ed.	-	
5	Total Dissolved Solids	mg/l	29120	30010	IS:3025 (P-16)		
6	Sulphate as SO ₄	mg/l	2740	2800	APHA 23 rd Ed.	-	
7	Nitrates as NO ₃	mg/l	4.10	4.25	IS:3025 (P-34)	-	
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-	
9	Total Suspended Solids	mg/l	26	20	IS:3025 (P-17)	-	
10	Dissolved Oxygen as DO	mg/l	6.4	6.2	IS:3025 (P-38)	3.0	
11	Biological Oxygen Demand	mg/l	4	6	IS:3025 (P-44)	5.0	
12	Chemical Oxygen Demand	mg/l	20	30	IS:3025 (P-58)	-	
13	Copper as Cu	mg/l	ND	ND	APHA 23rd Ed.	-	
14	Iron (as Fe)	mg/l	0.20	0.28	APHA 23rd Ed.	-	
15	Zinc as Zn	mg/l	0.30	0.34	APHA 23rd Ed.	-	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23rd Ed.	-	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23rd Ed.	-	
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.	-	
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23rd Ed.	-	
21	Chlorophyll A	mg/l	1.70	1.78	APHA 23rd Ed.	-	
22	Phaeophytin	mg/m ³	17.20	18.10	APHA 23 rd Ed.		
23	Salinity	PPT	31.20	32.50	EC Meter	-	
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)		
25	Total Nitrogen as N	mg/l	4.70	4.90	IS:3025 (P-34)	(-)	
26	Inorganic Phosphate	mg/l	0.19	0.21	IS:3025 (P-31)	100	
27	Total Phosphate as P	mg/l	0.30	0.36	IS:3025 (P-31)		
28	Faecal Coliform*	MPN/100 ml	503	175	IS:1622	500/100 ml	

CHECKED BY (SANDEEP SAINI) (AUTHORISED SIGNATORY)

(DHANU PRIYA*)

AUTHORISED SIGNATORY

(RAVINDER MITTAL

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+91-129-2241021

III +91-9013591021, +91-9013552273

labsnitya@gmail.com



NITYA LABORATORIES

9 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170129-130

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

MW7: Outer South-North Break Water (Surface)

MW8: Outer South-North Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test	Results	Protocol
		MW-7	MW-8	
1	Phytoplankton* (64	um mesh)		
	Biomass	4.7	3.5	APHA 23 rd Ed.
	Diversity	3.2	2.6	
	Species	Triceratium dublum, Metacylisjor genseni Noctiluca miliaris, Thalassiosira subtilis	Coscinodiscus granil, Guinardia delicatula,, Thalassiosira favus, Farranula carinata,	
2	Zooplankton* (200 u	ım mesh)		
	Biomass	0.067	0.084	APHA 23 rd Ed.
	Diversity	2.2	3.0	
	Species	Metacalanu saurivilli,, Calocalanus pavo, Triceratium dublum, Copilia quadrata	Copipod naupilli, Oncaeidae mediterranea, Eutintinnus tenue, Centropages furcatus,	
3	Benthos*		-	
	Species	Sagitta bedoti, Spiroloculina communis, Circe scripta, Laternula anatine,	, Elphidium crispum, Armandia intermedia, Cossura coasta,	APHA 23 rd Ed.

CHECKED BY (SANDEEP SAINI)

(DHANU PRIYA*)

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+91-9013591021, +91-9013552273

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◆ 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170131-132

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

20/00/2025

26/06/2025

SOP/B/D-3

17/06/2025

Mr. Surya

MW9: Outer Mouth-East Break Water (Surface)

MW10: Outer Mouth-East Break Water (Bottom 1.5 m)

Analysis Report

Sr.	Parameters	Unit	Unit Test Results		Protocol	SW-Class-IV	
No.			MW-9	MW-10		Harbour Standards	
1	pH		7.54	7.72	IS:3025 (P-11)	6.0-9.0	
2	Temperature	°C	26.5	26.4	IS:3025 (P-9)	-	
3	Electrical Conductivity	μs/cm	35280	36640	IS:3025 (P-14)	-	
4	Turbidity	NTU	2.9	2.7	APHA 23 rd Ed.	-	
5	Total Dissolved Solids	mg/i	22920	23810	IS:3025 (P-16)	-	
6	Sulphate as SO ₄	mg/l	1610	1670	APHA 23 rd Ed.	-	
7	Nitrates as NO ₃	mg/l	3.60	3.90	IS:3025 (P-34)	-	
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-	
9	Total Suspended Solids	mg/l	22	18	IS:3025 (P-17)	-	
10	Dissolved Oxygen as DO	mg/l	6.0	5.8	IS:3025 (P-38)	3.0	
11	Biological Oxygen Demand	mg/l	5	6	IS:3025 (P-44)	5.0	
12	Chemical Oxygen Demand	mg/l	24	30	IS:3025 (P-58)	-	
13	Copper as Cu	mg/l	ND	ND	APHA 23rd Ed.		
14	Iron (as Fe)	mg/l	0.10	0.14	APHA 23rd Ed.	•	
15	Zinc as Zn	mg/l	0.30	0.34	APHA 23rd Ed.	-	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23rd Ed.	-	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23rd Ed.	-	
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.		
19	Cadmium as Cd	mg/l	ND	ND	APHA 23rd Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23rd Ed.	-	
21	Chlorophyll A	mg/l	1.20	1.16	APHA 23 rd Ed.	•	
22	Phaeophytin	mg/m ³	12.20	13.60	APHA 23rd Ed		
23	Salinity	PPT	23.60	24.90	EC Meter	-	
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-	
25	Total Nitrogen as N	mg/l	4.02	4.20	IS:3025 (P-34)	-	
26	Inorganic Phosphate	mg/l	0.21	0.31	IS:3025 (P-31)	(*)	
27	Total Phosphate as P	mg/l	0.32	0.42	IS:3025 (P-31)		
28	Faecal Coliform*	MPN/100 ml	177	366	IS:1622	500/100 ml	

CHECKED BY

(AUTHORISED SIGNATORY)

(DHANU PRIYA*)

(AUTHORISED SIGNATORY)

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3 +91-129-2241021

+91-9013591021, +91-9013552273

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 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

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41

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170131-132

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab Test Started On

Test Completed On Method of Sampling

Date of Sampling Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025 20/06/2025

26/06/2025 SOP/B/D-3 17/06/2025

Mr. Surya

MW9: Outer South-East Break Water (Surface)

MW10: Outer South- East Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test	Protocol		
		MW-9	MW-10		
1	Phytoplankton* (64 um mesh)				
	Biomass	nass 4.1 5.7		APHA 23 rd Ed.	
	Diversity	2.7	4.2		
	Species	Actiniscuscur cubita, Rhizosolenia styliformis, Biddulphia mobiliensis, Dino physisovum,	Leptocylindrus minimus Talassiosira pseudonana, , Amphora decussate, , Actiniscus pentasterias		
2	Zooplankton* (200 um mesh)				
	Biomass	0.082	0.090	APHA 23 rd Ed.	
	Diversity	2.9	3.7	_	
	Species	Paracalanus parvus, Acarti idaeeryhraea, Globigerina bulloides, Salpa fusiformis	Hyalocylix striata, Periclimenes imperator,Oncaea conifer,		
3	Benthos*				
= -	Species Eponides repandus, Gastropods dentalium, Pisionoerstedi		Miliolinella circularis, Strombus luhuanus, Laevicardiuma pertom, Pugilina cochlidium,	APHA 23rd Ed.	

Remark

ND-Not Detected

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(DHANU PRIYA*)

(AUTHORISED SIGNATORY)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To M/s Kamarajar Port Trust

Test Report No .: Vallur Post, Chennai, India

Test Report Date:

27/06/2025

202506170133-134

Sample Particulars

Nature of the Sample Sample Quantity & Packaging

Sample Received at Lab

Test Started On Test Completed On Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025 20/06/2025 26/06/2025

SOP/B/D-3 17/06/2025

Mr. Surva

MW11: Outer South-South Break Water (Surface) MW12: Outer South-South Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV
			MW-11	MW-12		Harbour Standards
1	pH	-	7.46	7.62	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.8	26.5	IS:3025 (P-9)	-
3	Electrical Conductivity	μs/cm	42120	43610	. IS:3025 (P-14)	•
4	Turbidity	NTU	3.6	3.3	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	27360	28320	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1600	1680	APHA 23 rd Ed.	(=)
7	Nitrates as NO ₃	mg/l	2.42	2.70	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	18	12	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.3	6.0	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	4	5	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	24	32	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.08	0.10	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.26	0.30	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	(-)
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23rd Ed.	-
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23rd Ed.	
21	Chlorophyll A	mg/l	1.12	1.24	APHA 23rd Ed.	
22	Phaeophytin	mg/m ³	13.40	14.60	APHA 23rd Ed	
23	Salinity	PPT	28.50	29.10	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	2.80	3.06	IS:3025 (P-34)	
26	Inorganic Phosphate	mg/l	0.30	0.37	IS:3025 (P-31)	
27	Total Phosphate as P	mg/l	0.41	0.49	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	253	278	IS:1622	500/100 ml

(SANDEEP SAINI)

UTHOR SED SIGNATORY)

RAVINDER MITTAL

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labsnitya@gmail.com



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170133-134

Test Report Date:

27/06/2025

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

20/06/2025

20/06/2025

26/06/2025

SOP/B/D-3

30P/B/D-3

17/06/2025

Mr. Surya

MW11: Outer South-South Break Water (Surface)

MW12: Outer South-South Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test	Protocol		
		MW-11	MW-12		
1	Phytoplankton* (64 um mesh)				
	Biomass	3.9	2.6	APHA 23 rd Ed.	
	Diversity	2.8	3.1		
	Species	Thalassiosira gravda Pediastrum boryanum, Ornithocer cusheteroporus	Thalassionemanitzs chioides, Teleaulax acuta, Skeletonema costatum, Guinardia delicatula,		
2	Zooplankton* (200 um mesh)				
	Biomass 0.062		0.048	APHA 23 rd Ed.	
	Diversity	1.9	2.4		
			Euphausia frigida, Cyllopus lucasii, Acrocalanus gracilis, , Oithona brevicornis		
3	Benthos*				
77	Species Anadara granosa, Lumbrinerinae simplex, brevis, Macoma candi		Crassostrea cuttackensis, Triloculina tricarinata, Spiroloculina communis, Siliqua radiate	APHA 23 rd Ed.	

Remark

ND-Not Detected

(SANDEEP SAINI)

AUTHORISED SIGNATO

(Authorised SIGNATORY)

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- +91-191-2465597
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Test Reports of Marine Sediment

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+91-9013591021, +91-9013552273

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45

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202506170135-138

Test Report Date:

e: 27/06/2025

Sample Particulars

Nature of the Sample

Marine Sediment Quality

Sample Quantity & Packaging

1.0 Kg, Pet Bottle (Each)

Sample Received at Lab

20/06/2025

Test Started On

20/06/2025

Test Completed On Method of Sampling 26/06/2025

Welliou of Sampin

SOP/B/D-3

Date of Sampling

17/06/2025

Monitoring Conducted By Sample Description Mr. Surya

S1: Near Finger Jetty

S2-Near Marine Liquid Terminal (MLT) S3- Near General Cargo Berth

S4-Creek Mouth

Analysis Report

Sr. No.	Parameters	Unit	Test Results			
			S1	S2	\$3	\$4
1	Particle Size	mm	0.07	0.06	0.05	0.04
2	Organic Carbon	%	20.50	31.40	19.80	23.70
3	Organic Nitrogen	%	78.40	62.50	80.20	70.40
4	Copper as Cu	mg/kg	2.40	3.80	2.20	1.30
5	Lead as Pb	mg/kg	2.10	2.30	3.00	2.08
6	Cadmium as Cd	mg/kg	ND	ND	ND	ND
7	Mercury	mg/kg	ND	ND .	ND	ND
8	Arsenic	mg/kg	ND	ND	ND	ND

Remark

ND-Not Detected

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▼ PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com