



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

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Test Reports of Ambient Air Quality Monitoring

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(RAVINDER MITTAL)

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Issued To **M/s Kamarajar Port Trust**

Vallur Post, Chennai, India

ULR No.: TC148142500003436F, 3516F, 3639F, 3746F, 3829F,
3978F, 4059F, 4075F

Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Main Gate
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
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		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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(SANDEEP SAINI)



TC-14814



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(RAVINDER MITTAL)

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Issued To **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 : **Ambient Air Quality Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Main Gate
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 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
Test 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 : **Ambient Air Quality Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Guest House
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
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		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.: 202506030118-125
Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Purpose of Monitoring : **To Check the Pollution Load**
Sampling Location : **Guest House**
Method of Sampling : **IS 5182 (Part 14)**
Monitoring Conducted By : **Mr. Surya**
Sampling Duration (Hrs.) : **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
Test 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.:

TC148142500003438F, 3518F, 3641F, 3748F, 3831F,
3980F, 4061F, 4077F

Test Report Date:

07/07/2025

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Admin Building
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 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	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)

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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(SANDEEP SAINI)



TC-14814

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Issued To **M/s Kamarajar Port Trust**
Vallur Post, Chennai, India

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

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Admin Building
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 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
Test 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.: TC148142500003439F, 3519F, 3642F, 3749F, 3832F,
3981F, 4062F, 4078F
Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Signal Station
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
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)

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.: 202506030134-141
Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Purpose of Monitoring : **To Check the Pollution Load**
Sampling Location : **Signal Station**
Method of Sampling : **IS 5182 (Part 14)**
Monitoring Conducted By : **Mr. Surya**
Sampling Duration (Hrs.) : **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
Test 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.: TC148142500003440F, 3520F, 3643F, 3750F, 3833F, 3982F,
4063F, 4079F

Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Finger Jetty
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
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)

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

CHECKED BY
(SANDEEP SAINI)



TC-14814



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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 : **Ambient Air Quality Monitoring**
Purpose of Monitoring : **To Check the Pollution Load**
Sampling Location : **Finger Jetty**
Method of Sampling : **IS 5182 (Part 14)**
Monitoring Conducted By : **Mr. Surya**
Sampling Duration (Hrs.) : **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
Test 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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(SANDEEP SAINI)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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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 : **Ambient Air Quality Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : General Cargo Berth
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
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)

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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(SANDEEP SAINI)



TC-14814

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(RAVINDER MITTAL)

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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 : **Ambient Air Quality Monitoring**
Purpose of Monitoring : **To Check the Pollution Load**
Sampling Location : **General Cargo Berth**
Method of Sampling : **IS 5182 (Part 14)**
Monitoring Conducted By : **Mr. Surya**
Sampling Duration (Hrs.) : **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
Test 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

CHECKED BY
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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14

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 : Ambient Air Quality Monitoring
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Car Parking
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
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 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)

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

CHECKED BY
(SANDEEP SAINI)



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(RAVINDER MITTAL)

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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 : **Ambient Air Quality Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Sampling Location : Car Parking
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Surya
Sampling Duration (Hrs.) : 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
Test 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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(RAVINDER MITTAL)

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Issued To **M/s Kamarajar Port Trust**

ULR No.: TC14814250003453F, 3552F, 3646F, 3753F, 3836F, 3985F, 4066F, 4082F

Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Purpose of Monitoring : **To Check the Pollution Load**
Sampling Location : **Fire Station**
Method of Sampling : **IS 5182 (Part 14)**
Monitoring Conducted By : **Mr. Surya**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
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 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)

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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(SANDEEP SAINI)



TC-14814

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(RAVINDER MITTAL)

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Issued To **M/s Kamarajar Port Trust**
Vallur Post, Chennai, India

Test Report No.: 202506030166-173
Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Purpose of Monitoring : **To Check the Pollution Load**
Sampling Location : **Fire Station**
Method of Sampling : **IS 5182 (Part 14)**
Monitoring Conducted By : **Mr. Surya**
Sampling Duration (Hrs.) : **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	
Test 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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(RAVINDER MITTAL)

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Test Reports of Wastewater (STP)

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(RAYINDER MITTAL)

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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 Limits	Protocol
			W-1	W-2		
1	pH	...	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)

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(RAVINDER MITTAL)

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Issued To **M/s Kamarajar Port Trust**
Vallur Post, Chennai, India

Test Report No.: 202506170110-111
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 Limits	Protocol
			W-1	W-2		
1	Faecal Coliform*	MPN/100 ml	302	542	<1000	IS:1622

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Dhanu Priya
(AUTHORISED SIGNATORY)
(DHANU PRIYA*)

Ravinder Mittal
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Reports of Borewell Water

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Vallur Post, Chennai, India

ULR No.:

TC148142500003783F-3784F

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 : **26/06/2025**
Method of Sampling : **SOP/B/D-3**
Date of Sampling : **17/06/2025**
Monitoring Conducted By : **Mr. Surya**
Sample Description : **GW1: Near Temple Borewell**
GW2: CISF Quarter Guard Borewell

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol
			GW-1	GW-2	
1	pH	-	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-38)

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Test Report No.: 202506170130
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 : SOP/B/D-3
Date of Sampling : 17/06/2025
Monitoring Conducted By : Mr. Surya
Sample Description : 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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Vallur Post, Chennai, India

ULR No.: TC148142500003785F-3787F
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 : SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate
Analysis Report

Sr. No.	Parameters	Unit	Test Results			Protocol
			SW-1	SW-2	SW-3	
1	pH	-	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 23 rd 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 23 rd Ed.
14	Iron (as Fe)	mg/l	0.28	0.36	0.21	APHA 23 rd 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 23 rd 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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Test Report No.: 202506170120-122
Test Report Date: 07/07/2025

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 : SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate

Analysis Report

Sr. No.	Parameters	Unit	Test Results			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 23 rd 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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Test Report No.: 202506170120-122
Test Report Date: 07/07/2025

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : 3.0 Liter, Plastic 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 : SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate

Analysis Report

Sr. No.	Parameters	Test Results			Protocol
		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/31
	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.

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Vallur Post, Chennai, India

ULR No.: TC148142500003788F-3789F
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	Unit	Test Results		Protocol
			KV-1	KV-2	
1	pH	-	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.

Remark:
DL-Detection Limit

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Issued To **M/s Kamarajar Port Trust**
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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	Unit	Test Results		Protocol
			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/m ³	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
(SANDEEP SAINI)

Dhanu Priya
(AUTHORISED SIGNATORY)
(DHANU PRIYA*)

Ravinder Mittal
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Issued To **M/s Kamarajar Port Trust**
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, Plastic 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	Test Results		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/31
	Species	Metacylisjor gensenii , 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*			
	Species	Thiara scabra, Cymadusa pathyi, Cyphon larva, Bellamya bengalensis	Aethephemera nadiinae, Psephenoidinae gyridinae,	APHA 23 rd Ed.

CHECKED BY
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)
(DHANU PRIYA*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Reports of Marine Water

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Vallur Post, Chennai, India

Test Report No.: 202506170123-124
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW1: Near GCB (Surface)
MW2: Near GCB (Bottom 1.5m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-1	MW-2		
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 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	29650	30040	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2200	2300	APHA 23 rd 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 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.	-
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/m ³	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)	-
27	Total Phosphate as P	mg/l	0.40	0.49	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	180	253	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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Vallur Post, Chennai, India

Test Report No.: 202506170123-124
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : 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, Lauderiaa nulata, Laudaria, Acinocyclus octonarius	
2	Zooplankton* (200 um mesh)			
	Biomass	0.042	0.058	APHA 23 rd Ed.
	Diversity	2.9	2.2	
	Species	Farranula carinata, Eucalanus calocalanuspova, Corycaeus dana	Eutintinnus tenue, Cressis acicula, Undinula vulgaris, Oithona nana,	
3	Benthos*			
	Species	Standellani cobarica Tapes belcheri, Magelonacincta communis, Spiroloculina, Syllisferrugina, Ammobaculites exiguus	Persephona mediterranea, Cancris oblonga Oikopleura dioica, Ancilla ampla	APHA 23 rd Ed.

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Vallur Post, Chennai, India

Test Report No.: 202506170125-126
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW3: Near MLT Berth (Surface)
MW4: Near MLT Berth (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-3	MW-4		
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 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.15	0.20	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.32	0.44	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.	-
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/m ³	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)	-
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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Vallur Post, Chennai, India

Test Report No.: 202506170125-126
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW3: Near MLT Berth (Surface)
MW4: Near MLT Berth (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test 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.

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(DHANU PRIYA*)

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Test Report No.: 202506170127-128
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW5: Near Finger Jetty (Surface)
MW6: Near Finger Jetty(Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-5	MW-6		
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 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.19	0.26	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.28	0.32	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.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/l	1.36	1.48	APHA 23 rd Ed.	-
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)	-
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)

(DHANU PRIYA*)

(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 : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW5: Near Finger Jetty (Surface)
MW6: Near Finger Jetty (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		MW-5	MW-6	
1	Phytoplankton* (64 um mesh)			
	Biomass	1.8	2.5	APHA 23 rd Ed.
	Diversity	3.2	4.8	
	Species	Eucampia cornuta, Ditylum brightwelli Chaetoceros didymus, ,	Aglaurea mistoma, Guninardia flaccida, Fragilariopsis oceanic, Coscinodiscus radiates,	
2	Zooplankton* (200 um mesh)			
	Biomass	0.058	0.042	APHA 23 rd Ed.
	Diversity	3.4	2.2	
	Species	Hyalocylis striata, Dosinia trigona, Paracandacia truncata,	Paracalanus parvus, Oithona brevicornis, Copipod nauplii, Gastropod veliger,	
3	Benthos*			
	Species	Spiroloculina depressa , Laternula anatine, Macoma birmanic,	Melinna cristate, Conus canonicus, Pugilina coachlidium, Trochammina inflata	APHA 23 rd Ed.

Remark:
ND-Not Detected

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.: 202506170129-130
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW7: Outer South-North Break Water (Surface)
MW8: Outer South-North Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-7	MW-8		
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 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.20	0.28	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.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/l	1.70	1.78	APHA 23 rd 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)	-
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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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 : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : 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 gensenii Noctiluca miliaris, Thalassiosira subtilis	Coscinodiscus granil, Guinardia delicatula,, Thalassiosira favus, Farranula carinata,	
2	Zooplankton* (200 um 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
(AUTHORISED SIGNATORY)
(DHANU PRIYA*)

Ravinder Mittal
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202506170131-132
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW9: Outer Mouth-East Break Water (Surface)
MW10: Outer Mouth-East Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-9	MW-10		
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/l	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 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.10	0.14	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.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/l	1.20	1.16	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	12.20	13.60	APHA 23 rd 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
(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.: 202506170131-132
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW9: Outer South-East Break Water (Surface)
MW10: Outer South- East Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		MW-9	MW-10	
1	Phytoplankton* (64 um mesh)			
	Biomass	4.1	5.7	APHA 23 rd Ed.
	Diversity	2.7	4.2	
	Species	Actiniscus 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	Hyalocylis striata, Periclimenes imperator, Oncaea conifer,	
3	Benthos*			
	Species	Eponides repandus, Gastropods dentalium, Pisioerstedii	Miliolinella circularis, Strombus luhuanus, Laevicardium pertom, Pugilina cochlidium,	APHA 23 rd Ed.

Remark:
ND-Not Detected

CHECKED BY
(SANDEEP SAINI)

(DHANU PRIYA*)
(DHANU PRIYA*)

(RAVINDER MITTAL)
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202506170133-134
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : 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 Harbour Standards
			MW-11	MW-12		
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 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	1.12	1.24	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	13.40	14.60	APHA 23 rd 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

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.: 202506170133-134
Test Report Date: 27/06/2025

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 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 : MW11: Outer South-South Break Water (Surface)
MW12: Outer South- South Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		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 choioides, 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	
	Species	Farranula carinata, Primno macropa, Pseudosagitta maxima	Euphausia frigida, Cyllopus lucasii, Acrocalanus gracilis, , Oithona brevicornis	
3	Benthos*			
	Species	Anadara granosa, Lumbrinerinae simplex, Solen brevis, Macoma candida,	Crassostrea cuttackensis, Triloculina tricarinata, Spiroloculina communis, Siliqua radiata	APHA 23 rd Ed.

Remark:
ND-Not Detected

CHECKED BY
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)
(DHANU PRIYA*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Reports of Marine Sediment

CHECKED BY
(SANDEEP SAINI)

Authorised
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

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Issued To **M/s Kamarajar Port Trust**
Vallur Post, Chennai, India

Test Report No.: 202506170135-138
Test Report Date: 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 : 26/06/2025
Method of Sampling : SOP/B/D-3
Date of Sampling : 17/06/2025
Monitoring Conducted By : Mr. Surya
Sample Description : 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	S3	S4
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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