



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: August 2024

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

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	02/08/2024	202408020110	21.40	51.80	16.80	24.10	ND
2	05/08/2024	202408050110	24.50	49.20	16.00	22.50	ND
3	09/08/2024	202408090110	22.10	59.10	13.20	25.50	ND
4	12/08/2024	202408120110	24.10	55.40	15.40	23.10	ND
5	16/08/2024	202408160110	26.50	51.40	14.60	26.00	ND
6	19/08/2024	202408190110	25.50	52.20	16.50	27.30	ND
7	23/08/2024	202408230110	23.10	53.10	15.80	20.40	ND
8	26/08/2024	202408260110	21.90	48.80	18.20	27.20	ND
9	30/08/2024	202408300110	25.80	50.90	17.10	23.40	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

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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/08/2024	202408020110	ND
2	05/08/2024	202408050110	ND
3	09/08/2024	202408090110	ND
4	12/08/2024	202408120110	ND
5	16/08/2024	202408160110	ND
6	19/08/2024	202408190110	ND
7	23/08/2024	202408230110	ND
8	26/08/2024	202408260110	ND
9	30/08/2024	202408300110	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**
Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	02/08/2024	202408020111	27.40	35.50	16.20	19.20	ND
2	05/08/2024	202408050111	20.50	29.20	18.60	23.50	ND
3	09/08/2024	202408090111	24.40	40.20	14.40	27.20	ND
4	12/08/2024	202408120111	25.50	37.20	16.60	24.10	ND
5	16/08/2024	202408160111	22.30	39.30	17.80	26.20	ND
6	19/08/2024	202408190111	21.10	45.50	19.20	25.50	ND
7	23/08/2024	202408230111	25.50	34.20	15.20	21.30	ND
8	26/08/2024	202408260111	24.60	36.30	19.20	28.10	ND
9	30/08/2024	202408300111	26.20	37.40	18.00	27.50	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, NR. 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 Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/08/2024	202408020111	ND
2	05/08/2024	202408050111	ND
3	09/08/2024	202408090111	ND
4	12/08/2024	202408120111	ND
5	16/08/2024	202408160111	ND
6	19/08/2024	202408190111	ND
7	23/08/2024	202408230111	ND
8	26/08/2024	202408260111	ND
9	30/08/2024	202408300111	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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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	02/08/2024	202408020112	28.20	44.90	18.20	28.10	ND
2	05/08/2024	202408050112	30.90	49.20	19.60	29.50	ND
3	09/08/2024	202408090112	24.40	40.50	17.70	25.50	ND
4	12/08/2024	202408120112	29.50	42.20	19.50	24.40	ND
5	16/08/2024	202408160112	27.70	47.70	15.50	22.50	ND
6	19/08/2024	202408190112	25.50	48.80	16.30	23.40	ND
7	23/08/2024	202408230112	21.30	53.40	15.10	25.16	ND
8	26/08/2024	202408260112	30.50	40.90	14.40	27.70	ND
9	30/08/2024	202408300112	22.60	42.80	14.90	28.80	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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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/08/2024	202408020112	ND
2	05/08/2024	202408050112	ND
3	09/08/2024	202408090112	ND
4	12/08/2024	202408120112	ND
5	16/08/2024	202408160112	ND
6	19/08/2024	202408190112	ND
7	23/08/2024	202408230112	ND
8	26/08/2024	202408260112	ND
9	30/08/2024	202408300112	ND
Test Method			PID Based Methane Analyser

Remark:

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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	02/08/2024	202408020113	33.50	50.50	15.60	24.40	ND
2	05/08/2024	202408050113	31.40	53.40	16.70	23.10	ND
3	09/08/2024	202408090113	25.60	54.40	18.20	25.50	ND
4	12/08/2024	202408120113	27.40	50.70	20.30	26.10	ND
5	16/08/2024	202408160113	21.80	53.40	21.40	27.10	ND
6	19/08/2024	202408190113	20.30	55.50	14.80	28.00	ND
7	23/08/2024	202408230113	26.40	48.40	15.10	27.30	ND
8	26/08/2024	202408260113	28.80	49.80	14.90	24.40	ND
9	30/08/2024	202408300113	27.70	55.10	18.10	28.40	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)

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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/08/2024	202408020113	ND
2	05/08/2024	202408050113	ND
3	09/08/2024	202408090113	ND
4	12/08/2024	202408120113	ND
5	16/08/2024	202408160113	ND
6	19/08/2024	202408190113	ND
7	23/08/2024	202408230113	ND
8	26/08/2024	202408260113	ND
9	30/08/2024	202408300113	ND
Test Method			PID Based Methane Analyser

Remark:

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DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions,
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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	02/08/2024	202408020114	22.60	36.40	22.10	25.50	ND
2	05/08/2024	202408050114	27.70	38.20	24.40	27.20	ND
3	09/08/2024	202408090114	21.40	39.50	27.70	29.80	ND
4	12/08/2024	202408120114	20.50	45.20	30.10	32.20	ND
5	16/08/2024	202408160114	21.30	49.10	28.50	30.40	ND
6	19/08/2024	202408190114	28.40	39.80	25.50	29.10	ND
7	23/08/2024	202408230114	25.50	45.10	26.40	29.60	ND
8	26/08/2024	202408260114	23.40	40.40	25.60	27.70	ND
9	30/08/2024	202408300114	24.60	42.20	27.10	29.70	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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(RAVINDER MITTAL)

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

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/08/2024	202408020114	ND
2	05/08/2024	202408050114	ND
3	09/08/2024	202408090114	ND
4	12/08/2024	202408120114	ND
5	16/08/2024	202408160114	ND
6	19/08/2024	202408190114	ND
7	23/08/2024	202408230114	ND
8	26/08/2024	202408260114	ND
9	30/08/2024	202408300114	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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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	02/08/2024	202408020115	24.50	32.50	15.20	23.30	ND
2	05/08/2024	202408050115	26.60	34.40	17.30	25.10	ND
3	09/08/2024	202408090115	36.20	39.10	19.40	27.80	ND
4	12/08/2024	202408120115	28.10	35.60	16.40	28.20	ND
5	16/08/2024	202408160115	28.40	37.70	15.20	29.10	ND
6	19/08/2024	202408190115	30.50	38.40	16.60	25.40	ND
7	23/08/2024	202408230115	31.40	39.40	17.50	27.20	ND
8	26/08/2024	202408260115	23.40	35.10	21.40	28.80	ND
9	30/08/2024	202408300115	29.50	39.80	18.50	26.60	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 Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/08/2024	202408020115	ND
2	05/08/2024	202408050115	ND
3	09/08/2024	202408090115	ND
4	12/08/2024	202408120115	ND
5	16/08/2024	202408160115	ND
6	19/08/2024	202408190115	ND
7	23/08/2024	202408230115	ND
8	26/08/2024	202408260115	ND
9	30/08/2024	202408300115	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,
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Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	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	02/08/2024	202408020116	26.60	35.90	18.40	23.40	ND
2	05/08/2024	202408050116	25.90	33.30	20.30	26.10	ND
3	09/08/2024	202408090116	28.40	38.40	16.40	29.40	ND
4	12/08/2024	202408120116	24.40	34.50	15.50	30.10	ND
5	16/08/2024	202408160116	27.70	37.10	17.30	24.40	ND
6	19/08/2024	202408190116	26.30	36.10	18.10	26.80	ND
7	23/08/2024	202408230116	24.90	37.70	21.30	25.60	ND
8	26/08/2024	202408260116	25.50	39.40	19.50	22.80	ND
9	30/08/2024	202408300116	27.10	35.50	18.80	23.30	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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Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	02/08/2024	202408020116	ND
2	05/08/2024	202408050116	ND
3	09/08/2024	202408090116	ND
4	12/08/2024	202408120116	ND
5	16/08/2024	202408160116	ND
6	19/08/2024	202408190116	ND
7	23/08/2024	202408230116	ND
8	26/08/2024	202408260116	ND
9	30/08/2024	202408300116	ND
Test Method			PID Based Methane Analyser

Remark:

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Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	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	02/08/2024	202408020117	29.20	34.40	20.40	28.40	ND
2	05/08/2024	202408050117	27.10	32.50	22.30	30.50	ND
3	09/08/2024	202408090117	28.40	34.60	24.50	32.10	ND
4	12/08/2024	202408120117	31.10	46.40	25.60	33.30	ND
5	16/08/2024	202408160117	26.40	43.20	16.40	28.10	ND
6	19/08/2024	202408190117	25.50	38.80	17.30	25.60	ND
7	23/08/2024	202408230117	27.70	46.90	17.80	26.10	ND
8	26/08/2024	202408260117	28.90	47.70	18.00	27.10	ND
9	30/08/2024	202408300117	28.40	46.50	19.10	28.40	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

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Vallur Post, Chennai, India

Test Report Date: 05/09/2024

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. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/08/2024	202408020117	ND
2	05/08/2024	202408050117	ND
3	09/08/2024	202408090117	ND
4	12/08/2024	202408120117	ND
5	16/08/2024	202408160117	ND
6	19/08/2024	202408190117	ND
7	23/08/2024	202408230117	ND
8	26/08/2024	202408260117	ND
9	30/08/2024	202408300117	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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Test Reports of Ambient Noise

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Vallur Post, Chennai, India

Test Report No.: 202408290110-117
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : Ambient Noise
Parameter Tested : Noise Level, Leq dB (A)*
Instrument Used : Sound Level Meter
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Location	Date of Sampling	Test Result dB(A) Day Time	Test Result dB(A) Night-time
1	Main Gate	29/08/2024	64.88	59.48
2	Guest House	29/08/2024	54.10	50.63
3	Admin Building	29/08/2024	62.26	56.88
4	Signal Station	29/08/2024	58.05	54.26
5	Finger Jetty	29/08/2024	51.64	54.55
6	General Cargo Berth	29/08/2024	52.86	48.25
7	Car Parking	29/08/2024	54.88	58.89
8	Fire Station	29/08/2024	59.10	54.55
Permissible Limit in *dB(A) Leq for Industrial Area			75 dB(A)	70 dB(A)

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Reports of Wastewater (STP)

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Vallur Post, Chennai, India

Test Report No.: 202408230118-119
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	...	7.30	7.50	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	38	46	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	80	50	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	17	9	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	220	350	<1000	IS:1622

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

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(RAVINDER MITTAL)

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Test Reports of Borewell Water

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Vallur Post, Chennai, India

Test Report No.: 202408230135-136

Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Ground Water**
Sample Quantity & Packaging : 3.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
Sample Description : GW1: Near Temple Borewell
GW2: CISF Borewell

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol
			GW-1	GW-2	
1	pH	-	7.79	8.02	IS:3025 (P-11)
2	Nitrite	mg/l	ND	ND	IS:3025 (P-34)
3	Electrical Conductivity	µs/cm	3140	1490	IS:3025 (P-14)
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.
5	Total Dissolved Solids	mg/l	2010	950	IS:3025 (P-16)
6	Sulphate as SO ₄	mg/l	63.40	59.50	APHA 23 rd Ed.
7	Nitrates as NO ₃	mg/l	0.16	13.20	IS:3025 (P-34)
8	Salinity	PPT	2.20	1.02	IS:3025 (P-34)
9	Total Suspended Solids	mg/l	10	8	IS:3025 (P-17)
10	Dissolved Oxygen as DO	mg/l	6.2	6.4	IS:3025 (P-38)
11	Biological Oxygen Demand	mg/l	ND	ND	IS:3025 (P-44)
12	PO ₄	mg/l	0.06	0.13	IS:3025 (P-31)
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.
14	Iron (as Fe)	mg/l	0.19	0.08	APHA 23 rd Ed.
15	Zinc as Zn	mg/l	0.24	0.36	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	Oil & Grease	mg/l	ND	ND	IS:3025 (P-39)

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Test Reports of Surface Water

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Vallur Post, Chennai, India

Test Report No.: 202408230120-122
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : 3.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	-	7.54	8.02	7.78	IS:3025 (P-11)
2	Temperature	°C	25.2	26.3	26.7	IS:3025 (P-9)
3	Electrical Conductivity	µs/cm	372	416	405	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	20.60	22.40	21.15	APHA 23 rd Ed.
7	Nitrates as NO ₃	mg/l	0.88	0.98	1.01	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	6.3	6.0	6.1	IS:3025 (P-38)
11	Biological Oxygen Demand	mg/l	13	15	10	IS:3025 (P-44)
12	Chemical Oxygen Demand	mg/l	60	80	50	IS:3025 (P-58)
13	Copper as Cu	mg/l	ND	ND	ND	APHA 23 rd Ed.
14	Iron (as Fe)	mg/l	0.41	0.68	0.39	APHA 23 rd Ed.
15	Zinc as Zn	mg/l	0.32	0.41	0.22	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.
20	Faecal Coliform*	MPN/100ml	280	500	350	IS:1622

Remark:
DL-Detection Limit

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202408230120-122
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : 3.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	1.06	0.780	0.620	APHA 23 rd Ed.
3	Phaeophytins	mg/m ³	17.20	17.60	17.40	APHA 23 rd Ed.
4	Salinity	PPT	0.230	0.260	0.240	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	1.40	1.74	1.92	IS:3025 (P-34)
7	Inorganic Phosphate	mg/l	0.22	0.38	0.28	IS:3025 (P-31)
8	Total Phosphate as P	mg/l	0.32	0.49	0.44	IS:3025 (P-31)

Remark:
DL-Detection Limit

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

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Vallur Post, Chennai, India

Test Report No.: 202408230120-122
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : 3.0 Liter, Plastic Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	1.84	1.6	3.9	APHA 23 rd Ed.
	Diversity	2.9	1.8	3.1	NL/SOP/MB/PHP/31
	Species	Cerataulina pelagica, Ceratium belone Pediastrum boryanum	Gloeocapsa atrata, Actiniscus pentasterias Dinobryon sertularia	Microcystic aeruginosa ,Euglena acus	APHA 23 rd Ed.
2	Zooplankton* (200 um mesh)				
	Biomass	0.026	0.07	0.041	APHA 23 rd Ed.
	Diversity	2.2	3.0	2.1	NL/SOP/MB/ZP/30
	Species	Paracala nusparvus , Daphnia longispina, Globigerina bulloides	Cerodaphni acomuta, Cyclops varicans, Moina micnum	,Tropocyclops pracinus, Synecho cystisminuscula	APHA 23 rd Ed.
3	Benthos*				
	Species	Thiara scabra, Cyphon larva, Bellamya bengalensis	Indoplanor bisexualus, Psephenoidinae gyrinidae	Thiara tuberculataMusca domestica, Cymadusa pathyi	APHA 23 rd Ed.

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Test Reports of Marine Water

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Test Report No.: 202408230123-124
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	-	8.05	8.19	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.3	26.9	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	47840	48920	IS:3025 (P-14)	-
4	Turbidity	NTU	2.1	1.3	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	31090	31790	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2400	2500	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	2.30	2.60	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	4	5	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	30	40	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.11	0.16	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.06	0.08	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.17	0.21	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	1.2	1.4	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	15.40	14.60	APHA 23 rd Ed.	-
23	Salinity	PPT	32.40	32.90	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	2.60	2.94	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.16	0.24	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.27	0.38	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	170	280	IS:1622	500/100 ml

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202408230123-124
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW1: Near GCB (Surface)
MW2: Near GCB (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-1	SW-2	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	3.2	2.8	
	Diversity	2.6	1.9	
	Species	Bacteriastrum hyalinum, Peridinum elegans, Rhabdonema magnificum, Metacylisjor gensenii	Chaetoceros didymus, Naviculla sigma, Lauderiaan nulata, Laudaria	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.042	0.059	
	Diversity	3.8	3.1	
	Species	Eucalanus calocalanuspova, Metacalanusaurivilli, Corycaeus dana	Farranula carinata, Eutintinnus tenue, Oithona nana, Copipod nauplii	
3	Benthos*			APHA 23 rd Ed.
	Species	Oikopleura dioica, Ancilla ampla, Syllisferrugina, Ammobaculites exiguus	Tapes belcheri, Magelonacincta, Spiroloculina communis, Cancris oblonga	

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202408230125-126
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	-	7.80	8.10	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	25.83	26.4	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	40880	41940	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	26560	27260	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2000	2050	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	3.20	3.50	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	16	11	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.4	5.9	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	3	4	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	22	32	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.10	0.15	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.16	0.26	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	ND	ND	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	1.60	1.30	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	16.40	16.80	APHA 23 rd Ed.	-
23	Salinity	PPT	28.40	29.60	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	3.80	3.98	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.11	0.08	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.22	0.19	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	240	220	IS:1622	500/100 ml

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report No.: 202408230125-126

Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW3: Near MLT Berth (Surface)
MW4: Near MLT Berth (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-3	SW-4	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	3.6	4.1	
	Diversity	3.9	2.6	
	Species	Thalassionemanitzs chioides, Ditylum brightwelli, Laudria annulata	Coscinodiscus radiates, Peridinium claudicans, Skeletonema costatum	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.024	0.044	
	Diversity	1.6	2.2	
	Species	Calocalanus pavo, Tortanus barbatus, Dosinia trigona	Penilia avirostris, Eutintinnus tenue, Cressis acicula, Undinula vulgaris	
3	Benthos*			APHA 23 rd Ed.
	Species	Jasmineira elegans, Spiroloculina communis, Eponides repandus	Prionos piocirrifera, Sinumneritoi derum, Pinna bicolour, Spiroloculina henbesti	

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Test Report No.: 202408230127-128
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	-	8.07	8.14	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.4	26.9	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	44820	45180	IS:3025 (P-14)	-
4	Turbidity	NTU	2.0	2.7	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	29120	29300	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1800	2900	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	3.6	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	5	4	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	30	26	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.10	0.14	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.20	0.29	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.30	0.40	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	1.30	1.50	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	14.60	15.80	APHA 23 rd Ed.	-
23	Salinity	PPT	31.10	31.40	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	4.10	4.60	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.20	0.30	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.31	0.42	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	350	500	IS:1622	500/100 ml

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202408230127-128
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW5: Near Finger Jetty (Surface)
MW6: Near Finger Jetty (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-5	SW-6	
1	Phytoplankton* (64 um mesh)			
	Biomass	2.1	2.8	APHA 23 rd Ed.
	Diversity	3.1	3.4	
	Species	Actiniscus pentasterias, Ceratim furca, Pyrocystis fusiformis	Guinardia fiaccida, Fragilariopsis oceanic, Guinardia delicatula	
2	Zooplankton* (200 um mesh)			
	Biomass	0.076	0.049	APHA 23 rd Ed.
	Diversity	3.2	2.7	
	Species	Paracandacia truncatta, ,Corycaeidae catus,Bivalve velger	Hyalocylix striata, Oncaeidae mediterranea, Oithona brevicornis	
3	Benthos*			
	Species	Armandia intermedia, Macoma birmanic, Standellani cobarica, Elphidium crispum	Conus canonicus, Melinna cristate, Puginina coachlidium, , Quinqueloculina seminulum ,	APHA 23 rd Ed.

Remark:
ND-Not Detected

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202408230129-130
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	-	7.98	8.10	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	25.6	25.9	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	49820	50240	IS:3025 (P-14)	-
4	Turbidity	NTU	3.4	3.0	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	32280	32650	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2460	2500	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	4.60	4.95	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	12	16	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.6	6.2	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	3	4	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	0.21	0.28	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.15	0.26	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	1.50	1.80	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	15.40	15.80	APHA 23 rd Ed.	-
23	Salinity	PPT	33.40	33.80	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	5.10	5.40	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.09	0.15	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.15	0.23	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	669	170	IS:1622	500/100 ml

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202408230129-130
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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
		SW-7	SW-8	
1	Phytoplankton* (64 um mesh)			
	Biomass	6.6	4.8	APHA 23 rd Ed.
	Diversity	3.2	2.4	
	Species	Talassiosira pseudonana ,Bacteriastrum cosmosum, Biddulphia mobiliensis	Thalassiosira favus, Farranula carinata,, Eucampia cornuta Aglaurahe mistoma	
2	Zooplankton* (200 um mesh)			
	Biomass	0.064	0.094	APHA 23 rd Ed.
	Diversity	2.3	3.9	
	Species	Triceratium dublum , Euterpina acutifrons ,Copilia quadrata	Centropages furcatus, Gastropod veliger, Bacteriastrum rhombus	
3	Benthos*			
	Species	Trochammina inflate, Spiroloculina depressa , Pugilina cochlidium	Cossura coasta,Quadrivisioboneri, Circe scripta, Anadara granosa, Laternula anatine	APHA 23 rd Ed.

Remark:
ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report No.: 202408230131-132
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	-	7.5	7.96	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.9	27.3	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	39810	40140	IS:3025 (P-14)	-
4	Turbidity	NTU	2.3	2.6	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	25800	26080	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1820	1880	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	3.02	3.38	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	14	19	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	2	3	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	18	24	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.10	0.15	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.20	0.26	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	1.02	1.04	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	16.40	16.60	APHA 23 rd Ed.	-
23	Salinity	PPT	27.10	27.80	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	3.10	3.64	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.21	0.26	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.32	0.37	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	220	500	IS:1622	500/100 ml

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report No.: 202408230131-132
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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
		SW-9	SW-10	
1	Phytoplankton* (64 um mesh)			
	Biomass	4.8	5.6	APHA 23 rd Ed.
	Diversity	2.4	3.8	
	Species	Dino physisovum, Thalassiosira subtilis, Coscinodiscus granil	Noctiluca miliaris, Bacteriastrum cosmosum, Amphora decussate	
2	Zooplankton* (200 um mesh)			
	Biomass	0.062	0.089	APHA 23 rd Ed.
	Diversity	2.4	2.7	
	Species	Globigerina bulloides Pseudosagitta maxima, Salpa fusiformis,	Periclimenes imperator, Oncaea conifer, Acrocalanus gracilis	
3	Benthos*			
	Species	apolymetisedentula, Gastropods dentalium, Pisonesia stedi, Macoma candida	Crassostrea cuttackensis, Lumbrinerinae simplex, Nassarius dorsatus	APHA 23 rd Ed.

Remark:
ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202408230133-134
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	-	7.71	7.91	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.3	26.8	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	45840	46220	IS:3025 (P-14)	-
4	Turbidity	NTU	3.1	3.4	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	29790	30040	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1840	1900	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	2.15	2.42	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.10	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	10	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	26	32	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.20	0.29	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.26	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	1.30	1.60	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	16.40	16.90	APHA 23 rd Ed.	-
23	Salinity	PPT	30.60	31.10	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	2.92	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.17	0.20	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.28	0.33	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	280	300	IS:1622	500/100 ml

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report No.: 202408230133-134
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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
		SW-11	SW-12	
1	Phytoplankton* (64 um mesh)			
	Biomass	4.8	2.6	APHA 23 rd Ed.
	Diversity	2.7	3.2	
	Species	Triceratium dublum, Ornithocer cusheteroporus, Actiniscus cubita,	Thalassionema nitzschioides, Skeletonema costatum, Guinardia delicatula	
2	Zooplankton* (200 um mesh)			
	Biomass	0.082	0.042	APHA 23 rd Ed.
	Diversity	1.4	1.7	
	Species	Sagitta bedoti, Paracalanus parvus, Acarti idaeeryhraea	Farranula carinata, Oithona brevicornis, Hyalocylis striata	
3	Benthos*			
	Species	Strombus luhuanus, Cossurecoaste Miliolinella circularis, Solen brevis, Triloculina tricarinata	Spiroloculina communis, Siliqua re tiate, Laevicardium pertom, Eponides repandus	APHA 23 rd Ed.

Remark:
ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Reports of Marine Sediment

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Vallur Post, Chennai, India

Test Report No.: 202408230135-138
Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample : Marine Sediment Quality
Sample Quantity & Packaging : 1.0 Kg, Pet Bottle (Each)
Sample Received at Lab : 28/08/2024
Test Started On : 28/08/2024
Test Completed On : 04/09/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 23/08/2024
Monitoring Conducted By : Mr. Shridhar
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	%	20.30	31.10	19.20	24.30
3	Organic Nitrogen	%	81.40	64.30	82.30	70.20
4	Copper as Cu	mg/kg	3.80	5.60	2.90	1.95
5	Lead as Pb	mg/kg	2.10	2.30	2.90	2.22
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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