

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

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

**Test Reports of Ambient Air Quality Monitoring** 

(AUTHORISED SIGNATORY)

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

Issued To M/s Ka

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

**Analysis Report** 

Sr. No.	Date of Sampling	Test Report No.		Co	ncentration		
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/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 und

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(RAVINDER MITTAL)

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

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

**Ambient Air Quality Monitoring** 

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

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

(AUTHORISED SIGNATORY)

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Guest House

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

#### **Analysis Report**

Sr. No.	Date of Sampling	Test Report No.		Co	ncentration		
			Particulate Matter (PM2.5, µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/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:

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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

**Guest House** 

IS 5182 (Part 14)

Mr. Shridhar

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

**Ambient Air Quality Monitoring** 

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

· Analysis Report

Sr. No.	Date of Sampling	Test Report No.		Cor	ncentration		
	- Cumping		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/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:

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

**Ambient Air Quality Monitoring** 

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

### **Analysis Report**

Sr. No.	Date of Sampling	Test Report No	Concentration
	Cumping		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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Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

**Ambient Air Quality Monitoring** 

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

#### **Analysis Report**

Sr. No.	Date of	Test Report No.		Co	ncentration		
	Sampling	Sampling	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/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	5 3.40	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

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05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

**Ambient Air Quality Monitoring** 

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

#### **Analysis Report**

Sr. No.	Date of Sampling	Test Report No	Concentration
	Cumpining		Mothane (%)
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 Met	hod		PID Based Methane Analyser

#### Remark:

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M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

: Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

**Analysis Report** 

Sr. No.	Date of Sampling	Test Report No.		Co	ncentration		
	Sampling	Sampling	Particulate Matter (PM2.5) μg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/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 Bhard

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## **NITYA LABORATORIES**

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

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

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

**Ambient Air Quality Monitoring** 

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

### **Analysis Report**

Sr. No.	Date of Sampling	Test Report No	Concentration
	Sampling		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 Met	hod		PID Based Methane Analyser

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

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Sir Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

#### **Analysis Report**

Sr. No.	Date of Sampling	Test Report No.		Co	ncentration		
			Particulate Matter (PM2.5) μg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/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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## BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

### **Analysis Report**

Sr. No.	o. Date of Test 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
est Meth	est Method		PID Based Methane Analyser

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

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Car Parking

IS 5182 (Fart 14)

Mr. Shridhar

24 Hrs.

### **Analysis Report**

Sr. No.	Date of Sampling	Test Report No.		Co	ncentration		
*	0 00 000 0 000	360	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µ⊕/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
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 S	Standards		60	100	80	80	2
Test Meth	nod		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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## BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

**Ambient Air Quality Monitoring** 

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

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		
est Meth	est Method		PID Based Methane Analyser		

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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**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 Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

: Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

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) ug/m3	Carbon Monoxide (as CO) mg/m3		
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 S	Standards		60	100	80	80	2	
Test Meti	nod	(H.)	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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## **BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB**

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

#### **Analysis Report**

Sr. No.	Date of Sampling	Test Report No	Concentration
	000000000000000000000000000000000000000		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 Met	hod		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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#### **CORPORATE OFFICE & CENTRAL LABORATORIES:-**



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## **Test Reports of Ambient Noise**

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

Issued To

M/s Kamarajar Port Trust

Test Report No .:

202408290110-117

Vallur Post, Chennai, India

Test Report Date: 05/09/2024

Sample Particulars

Nature of the Sample

: Ambient Noise

Parameter Tested

Noise Level, Leg 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 fo	or Industrial Area	75 dB(A)	70 dB(A)

Remark:

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)			
А	Industrial Area	75	70			
В	Commercial Area	65	55			
С	Residential Area	55	45			
. D	Silence Zone	. 50	40			

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### **CORPORATE OFFICE & CENTRAL LABORATORIES:**

<sup>\*</sup>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



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

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## **Test Reports of Wastewater (STP)**

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

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

Monitoring Conducted By

23/08/2024

Sample Description

Mr. Shridhar W-1: STP O/L of Admin Building

W-2: STP O/L of Car Parking

**Analysis Report** 

Sr. No.	Parameter	Unit	Result		Permissible	Protocol	
			W-1	W-2	Limits		
1	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\*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

**Test Reports of Borewell Water** 

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

Issued To M/s Kamarajar Port Trust

Test Report No .:

202408230135-136

Vallur Post, Chennai, India

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 I	Results	Protocol	
			GW-1	GW-2		
1	pH	1945	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 <sup>rd</sup> Ed.	
5	Total Dissolved Solids	mg/l	2010	950	IS:3025 (P-16)	
6	Sulphate as SO <sub>4</sub>	mg/l	63.40	59.50	APHA 23 <sup>rd</sup> Ed.	
7	Nitrates as NO <sub>3</sub>	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 <sub>4</sub>	mg/l	0.06	0.13	IS:3025 (P-31)	
13	Copper as Cu	mg/l	ND	ND	APHA 23 <sup>rd</sup> Ed.	
14	Iron (as Fe)	mg/l	0.19	0.08	APHA 23 <sup>rd</sup> Ed.	
15	Zinc as Zn	mg/l	0.24	0.36	APHA 23 <sup>rd</sup> Ed.	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	
19	Cadmium as Cd	mg/l	N.D	ND	APHA 23 <sup>rd</sup> Ed.	
20	Oil & Grease	mg/l	ND	ND	IS:3025 (P-39)	

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

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## **Test Reports of Surface Water**



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

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202408230120-122

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Surface Water

3.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

SW1: Creek Mouth

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

**Analysis Report** 

Sr. No.	Parameters	Unit			Protocol	
			SW-1	SW-2	SW-3	1
1	pH	·	7.54	8.02	7.78	IS:3035 (D.14
2	Temperature	°C	25.2	26.3	26.7	IS:3025 (P-11
3	Electrical Conductivity	µs/cm	372	416	405	IS:3025 (P-9)
4	Turbidity	NTU	<1	<1	<1	IS:3025 (P-14 APHA 23 <sup>rd</sup> Ed
5	Total Dissolved Solids	mg/l	230	260	240	
6	Sulphate as SO <sub>4</sub>	mg/l	20.60	22.40	21.15	IS:3025 (P-16 APHA 23 <sup>rd</sup> Ed
7	Nitrates as NO <sub>3</sub>	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 <sup>rd</sup> Ed.
14	Iron (as Fe)	mg/l	0.41	0.68	0.39	APHA 23 <sup>rd</sup> Ed.
15	Zinc as Zn	mg/l	0.32	0.41	0.22	APHA 23 <sup>rd</sup> Ed.
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23rd Ed.
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23rd Ed.
19	Cadmium as Cd	mg/l ·	ND	ND ND	ND ND	APHA 23rd Ed.
20	Faecal Coliform*	MPN/100ml	280	500	350	IS:1622

Remark

DL-Detection Limit

(AUTHORISED/SIGNATORY)

(RHYTHIN BASSON\*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202408230120-122

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Surface Water

3.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

20/00/2024

28/08/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

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 <sup>rd</sup> Ed.
2	Chlorophyll A	mg/l	1.06	0.780	0.620	APHA 23 <sup>rd</sup> Ed.
3	Phaeophytins	mg/m³	17.20	17.60	17.40	APHA 23 <sup>rd</sup> Ed
4	Salinity	PPT	0.230	0.260	0.240	EC Meter
5	Nitrite as NO <sub>2</sub>	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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**Issued To** M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202408230120-122

Test Report Date:

05/09/2024

#### Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

**Surface Water** 

3.0 Liter, Plastic Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

SW1: Creek Mouth

SW2: Opp. to Main Gate

SW3: Opp. to West Gate

**Analysis Report** 

Sr. No.	Parameters		Test Results					
		SW-1	SW-2	SW-3				
1	Phytoplankton* (64 u	m mesh)		-				
	Biomass	1.84	1.6	3.9	APHA 23 <sup>rd</sup> Ed.			
	Diversity	2.9	1.8	3.1	NL/SOP/MB/PHP/3			
	Species	Cerataulina pelagica, Ceratium belone Pediastrum boryanum	Gloeocapsa atrata, Actiniscus pentasterias Dinobryon sertularia	Microcystic aeruginosa ,Euglena acus	APHA 23 <sup>rd</sup> Ed.			
2	Zooplankton* (200 um mesh)							
30	Biomass	0.026	0.07	0.041	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed.			
3	Benthos*							
	Species	Thiara scabra, Cyphon larva, Bellamya bengalensis	Indoplanor bisexustus, Psephenoidinae gyrinidae	Thiara tuberculataMusca domestica, Cymadusa pathyi	APHA 23 <sup>rd</sup> Ed.			

(AUTHORISED/SIGNATORY)

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## **Test Reports of Marine Water**

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

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202408230123-124

Test Report Date:

05/09/2024

#### Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

MW1: Near GCB (Surface)

MW2: Near GCB (Bottom 1.5m)

**Analysis Report** 

Sr.	Parameters	Unit	Test F	Results	Protocol	SW-Class-IV	
No.	10		MW-1	MW-2		Harbour Standards	
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 <sup>rd</sup> Ed.		
5	Total Dissolved Solids	mg/l	31090	31790	IS:3025 (P-16)	_	
6	Sulphate as SO <sub>4</sub>	mg/l	2400	2500	APHA 23 <sup>rd</sup> Ed.	-	
7	Nitrates as NO <sub>3</sub>	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)	8	
13	Copper as Cu	mg/l	0.11	0.16	APHA 23 <sup>rd</sup> Ed.	-	
14	Iron (as Fe)	mg/l	0.06	0.08	APHA 23 <sup>rd</sup> Ed.	-	
15	Zinc as Zn	mg/l	0.17	0.21	APHA 23 <sup>rd</sup> Ed.	-	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.	-	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-	
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-	
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 <sup>rd</sup> Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 <sup>rd</sup> Ed.	-	
21	Chlorophyll A	mg/l	1.2	1.4	APHA 23 <sup>rd</sup> Ed.	-	
22	Phaeophytin	mg/m³	15.40	14.60	APHA 23 <sup>rd</sup> Ed.		
23	Salinity	PPT .	32.40	32.90	EC Meter	2	
24	Nitrite as NO <sub>2</sub>	. 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	

(AUTHOR(SED, SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202408230123-124

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling Monitoring Conducted By

Sample Description

**Marine Water** 

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

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 u	m mesh)			
	Biomass	3.2	2.8	APHA 23 <sup>rd</sup> Ed.	
	Diversity	2.6	1.9		
	Species	Bacteriastrum hyalinum, Peridinum elegans, Rhabdonema magnificum, Metacylisjor genseni	Chaetoceros didymus, Naviculla sigma, Lauderiaan nulata, Laudaria	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2	Zooplankton* (200 um mesh)				
	Biomass	0.042	0.059	APHA 23 <sup>rd</sup> Ed.	
	Diversity	3.8	3.1		
	Species	Eucalanus calocalanuspova, Metacalanusaurivilli, Corycaeus dana	Farranula carinata, Eutintinnus tenue, Oithona nana,Copipod naupliii		
3	Benthos*				
	Species	Oikopleura dioica, Ancilla ampla,Syllisferrugina, Ammobaculites exiguus	Tapes belcheri, Magelonacincta, Spiroloculina communis, Cancris oblonga	APHA 23 <sup>rd</sup> Ed.	

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(RHYTHM BASSON\*)

(RAVINDER MITTAL

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## 31

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

Issued To M/s

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No.:

202408230125-126

Test Report Date:

05/09/2024

#### Sample Particulars

Sample Description

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

#### Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024 28/08/2024 04/09/2024 SOP/B/D-3 23/08/2024 Mr. Shridhar

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

Analysis Report

Sr.	Parameters	Unit	Unit Test Results		Protocol	SW-Class-IV
No.			MW-3	MW-4		Harbour Standards
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 <sup>rd</sup> Ed.	
5	Total Dissolved Solids	mg/l	26560	27260	IS:3025 (P-16)	=
6	Sulphate as SO <sub>4</sub>	mg/l	2000	2050	APHA 23 <sup>rd</sup> Ed.	2
7	Nitrates as NO <sub>3</sub>	mg/l	3.20	3.50	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	2
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 <sup>rd</sup> Ed.	
14	Iron (as Fe)	mg/l	0.16	0.26	APHA 23 <sup>rd</sup> Ed.	
15	Zinc as Zn	mg/l	ND	ND	APHA 23 <sup>rd</sup> Ed.	
16	Mercury as Hg	mg/l .	ND [DL-0.001]	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.	-
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 <sup>rd</sup> Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 <sup>rd</sup> Ed.	-
21	Chlorophyll A	mg/l	1.60	1.30	APHA 23 <sup>rd</sup> Ed.	-
22	Phaeophytin	mg/m³	16.40	16.80	APHA 23 <sup>rd</sup> Ed.	
23	Salinity	PPT	28.40	29.60	EC Meter	14
24	Nitrite as NO <sub>2</sub>	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	028
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 m

(AUTHORISED SIGNATORY)
(RHYTHM BASSON\*)

(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 .:

202408230125-126

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling Monitoring Conducted By

Sample Description

**Marine Water** 

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

MW3: Near MLT Berth (Surface)

MW4: Near MLT Berth (Bottom 1.5 m)

### **Analysis Report**

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

(AUTHORISED SIGNATORY)

(RHYTHIN BASSON\*)

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202408230127-128

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

MW5: Near Finger Jetty (Surface)

MW6: Near Finger Jetty(Bottom 1.5 m)

**Analysis Report** 

Sr.	Parameters	Unit	Test R	esults	Protocol	SW-Class-IV
No.	T uramotors		MW-5	MW-6		Harbour Standards
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 <sup>rd</sup> Ed.	¥
5	Total Dissolved Solids	mg/l	29120	29300	IS:3025 (P-16)	-
6	Sulphate as SO <sub>4</sub>	mg/l	1800	2900	APHA 23 <sup>rd</sup> Ed.	2
7	Nitrates as NO <sub>3</sub>	mg/l ·	3.6	4.20	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	5
9	Total Suspended Solids	mg/l	18	14	IS:3025 (P-17)	( <del>-</del> /)
1000	Dissolved Oxygen as DO	mg/l	6.2	5.8	IS:3025 (P-38)	3.0
10	Biological Oxygen Demand	mg/l	5	4	IS:3025 (P-44)	5.0
11	Chemical Oxygen Demand	mg/l	30	26	IS:3025 (P-58)	
12	Copper as Cu	mg/l	0.10	0.14	APHA 23 <sup>rd</sup> Ed.	(₩)
13	Iron (as Fe)	mg/l	0.20	0.29	APHA 23 <sup>rd</sup> Ed.	-
14 15	Zinc as Zn	mg/l	0.30	0.40	APHA 23 <sup>rd</sup> Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.	-
	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-
17	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-
18	Cadmium as Cd	mg/l	ND	ND	APHA 23 <sup>rd</sup> Ed.	-
0.00	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 <sup>rd</sup> Ed.	-
20	Chlorophyll A	mg/l	1.30	1.50	APHA 23 <sup>rd</sup> Ed.	-
200000	Service and the service and th	mg/m³	14.60	15.80	APHA 23 <sup>rd</sup> Ed.	
22	Phaeophytin Salinity	PPT	31.10	31.40	EC Meter	-
23	Nitrite as NO <sub>2</sub>	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
24	Total Nitrogen as N	mg/l	4.10	4.60	IS:3025 (P-34)	-
25	Inorganic Phosphate	mg/l	0.20	0.30	IS:3025 (P-31)	
26	Total Phosphate as P	mg/l	0.31	0.42	IS:3025 (P-31)	-
27	Faecal Coliform*	MPN/100 ml	350	500	IS:1622	500/100 m

(RHYTHM BASSON\*)

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(RAVINDER MITTAL)

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

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

202408230127-128

Test Report Date:

05/09/2024

Sample Particulars

Issued To

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On Test Completed On

Method of Sampling Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

: 1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3 23/08/2024

Mr. Shridhar

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 <sup>rd</sup> Ed.	
	Diversity	3.1	3.4		
	Species	Actiniscus pentasterias, Ceratim furca, Pyrocystis fusiformis	Guninardia fiaccida, Fragilariopsis oceanic, Guinardia delicatula	20	
2	Zooplankton* (200 um mesh)				
7 - 7	Biomass	0.076	0.049	APHA 23 <sup>rd</sup> 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, Pugilina coachlidium, , Quinqueloculina seminulum ,	APHA 23 <sup>rd</sup> Ed.	

Remark

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202408230129-130

Test Report Date:

05/09/2024

#### Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3

23/08/2024

Mr. Shridhar

MW7: Outer South-North Break Water (Surface)

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

**Analysis Report** 

Sr.	Parameters	Unit	Test F	Results	Protocol	SW-Class-IV	
No.			MW-7	MW-8		Harbour Standards	
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 <sup>rd</sup> Ed.	_	
5	Total Dissolved Solids	mg/l	32280	32650	IS:3025 (P-16)	-	
6	Sulphate as SO <sub>4</sub>	mg/l	2460	2500	APHA 23 <sup>rd</sup> Ed.	-	
7	Nitrates as NO <sub>3</sub>	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 <sup>rd</sup> Ed.	-	
14	Iron (as Fe)	mg/l	0.21	0.28	APHA 23 <sup>rd</sup> Ed.	*	
15	Zinc as Zn	mg/l	0.15	0.26	APHA 23 <sup>rd</sup> Ed.	-	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND !DL-0.001]	APHA 23 <sup>rd</sup> Ed.	_	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-	
18	Lead as Pb	mg/l ·	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-	
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 <sup>rd</sup> Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 <sup>rd</sup> Ed.	-	
21	Chlorophyll A	mg/l	1.50	1.80	APHA 23 <sup>rd</sup> Ed.	-	
22	Phaeophytin	mg/m³	15.40	15.80	APHA 23 <sup>rd</sup> Ed.		
23	Salinity	PPT	33.40	33.80	EC Meter	-	
24	Nitrite as NO <sub>2</sub>	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 S)GNATORY)

(RAVINDER MITTAL)

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

Issued To M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report No .:

202408230129-130

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab Test Started On

Test Completed On

Method of Sampling Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024 04/09/2024

SOP/B/D-3 23/08/2024

Mr. Shridhar

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)				
1	Biomass	6.6	4.8	APHA 23 <sup>rd</sup> Ed.		
	Diversity	3.2	2.4	7 .		
	Species Talassiosira pseudonana Thalassiosira favus, Farranula , Bacteriastrum cosmosum, Biddulphia mobiliensis Aglaurahe mistoma					
2	Zooplankton* (200 um mesh)					
	Biomass	0.064	0.094	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed.		

Remark

**ND-Not Detected** 

(AUTHORISED/SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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## 37

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

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

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024

28/08/2024

04/09/2024

SOP/B/D-3 23/08/2024

Mr. Shridhar

MW9: Outer Mouth-East Break Water (Surface)

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

**Analysis Report** 

Sr. No.	Parameters	Unit	Test I	Results	Protocol	SW-Class-IV Harbour
		W	MW-9	MW-10		Standards
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 <sup>rd</sup> Ed.	-
5	Total Dissolved Solids	mg/l	25800	26080	IS:3025 (P-16)	_
6	Sulphate as SO <sub>4</sub>	mg/l	1820	1880	APHA 23 <sup>rd</sup> Ed.	_
7	Nitrates as NO <sub>3</sub>	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 <sup>rd</sup> Ed.	-
14	Iron (as Fe)	mg/l	0.10	0.15	APHA 23 <sup>rd</sup> Ed.	-
15	Zinc as Zn	mg/l	0.20	0.26	APHA 23 <sup>rd</sup> Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.	-
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 <sup>rd</sup> Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 <sup>rd</sup> Ed.	
21	Chlorophyll A	mg/l	1.02	1.04	APHA 23 <sup>rd</sup> Ed.	_
22	Phaeophytin	mg/m³	16.40	16.60	APHA 23 <sup>rd</sup> Ed	
23	Salinity	PPT	27.10	27.80	EC Meter	-
24	Nitrite as NO <sub>2</sub>	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)	- 270
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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## 38

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

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 Test Started On 28/08/2024 28/08/2024

Test Completed On

04/09/2024 SOR/R/D 3

Method of Sampling Date of Sampling SOP/B/D-3 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	Test Results		
		SW-9	SW-10		
1	Phytoplankton* (64	um mesh)			
	Biomass	4.8	5.6	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> Ed.	
	Diversity	2.4 '	2.7		
	Species	Globigerina bulloides Pseudosagitta maxima, Salpa fusiformis,	cosmosum, Amphora decussate  cosmosum, Amphora decussate  0.062  0.089  2.4  Digerina bulloides Sagitta maxima, Salpa  conifer Acrocalanus gracilis	ii v	
3	Benthos*	0	· · · · · · · · · · · · · · · · · · ·		
3	Species	apolymetisedentula, Gastropods dentalium, Pisionoerstedi,Macoma candida	Crassostrea cuttackensis, Lumbrinerinae simplex, Nassarius dorsatus	APHA 23 <sup>rd</sup> Ed.	

Remark

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)

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M/s Kamarajar Port Trust Issued To

Vallur Post, Chennai, India

Test Report No.:

202408230133-134

Test Report Date:

05/09/2024

Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On Test Completed On Method of Sampling Date of Sampling

Monitoring Conducted By

Sample Description

Marine Water

1.0 Liter, Sterilized Pet Bottle (Each)

28/08/2024 28/08/2024 04/09/2024 SOP/B/D-3

> 23/08/2024 Mr. Shridhar

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

**Analysis Report** 

Sr.	Parameters	Unit	Test Re	esults	Protocol	SW-Class-IV Harbour
No.			MW-11	MW-12		Standards
			7.71	7.91	IS:3025 (P-11)	6.0-9.0
1	рН	°C .	26.3	26.8	IS:3025 (P-9)	\$ <b>#</b> {
2	Temperature		45840	46220	IS:3025 (P-14)	: <u>-</u>
3	Electrical Conductivity	µs/cm	3.1	3.4	APHA 23 <sup>rd</sup> Ed.	12
4	Turbidity	NTU	29790	30040	IS:3025 (P-16)	-
5	Total Dissolved Solids	mg/l	1840	1900	APHA 23 <sup>rd</sup> Ed.	-
6	Sulphate as SO <sub>4</sub>	mg/l	2.15	2.42	IS:3025 (P-34)	9
7	Nitrates as NO <sub>3</sub>	mg/l		ND	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.10	12	IS:3025 (P-17)	-
9	Total Suspended Solids	mg/l	10	6.0	IS:3025 (P-38)	3.0
10	Dissolved Oxygen as DO	mg/l	6.3	5	IS:3025 (P-44)	5.0
11	Biological Oxygen Demand	mg/l	4	32	IS:3025 (P-58)	-
12	Chemical Oxygen Demand	mg/l	26	ND ND	APHA 23 <sup>rd</sup> Ed.	-
13	Copper as Cu	mg/l	ND	0.29	APHA 23 <sup>rd</sup> Ed.	-
14	Iron (as Fe)	mg/l	0.20	0.34	APHA 23 <sup>rd</sup> Ed.	-
15	Zinc as Zn	mg/l	0.26	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 <sup>rd</sup> Ed.	
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 <sup>rd</sup> Ed.	-
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL-0.01]	APHA 23 <sup>rd</sup> Ed.	-
19	Cadmium as Cd	mg/l	ND	ND (DL-0.01)	APHA 23rd Ed.	2
20	Petroleum Hydrocarbons	mg/l '	ND (DL-0.01)	1.60	APHA 23 <sup>rd</sup> Ed.	-
21	Chlorophyll A	mg/l	1.30	16.90	APHA 23 <sup>rd</sup> Ed	
22	Phaeophytin	mg/m³	16.40	31.10	EC Meter	
23	Salinity	PPT	30.60		IS:3025 (P-34)	
24	Nitrite as NO <sub>2</sub>	mg/l	ND (DL-0.01)	ND (DL-0.01) 2.92	IS:3025 (P-34)	
25	Total Nitrogen as N	mg/l	2.80	A STATE OF THE STA	IS:3025 (P-31)	
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:1622	500/100 m
28	The second secon	MPN/100 ml	280	300	10.1022	000,100

(AUTHORISED SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)

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40

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

202408230133-134

Test Report Date:

05/09/2024

Sample Particulars

Issued To

Nature of the Sample

2

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

1.0 Liter, Sterilized Pet Bottle (Each)

Sample Received at Lab

Sample Quantity & Packaging

28/08/2024 28/08/2024

Marine Water

Test Started On Test Completed On

04/09/2024

Method of Sampling Date of Sampling SOP/B/D-3 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	Tes	t Results	Protocol	
		SW-11	SW-12		
1	Phytoplankton* (64 ι	um mesh)		9	
	Biomass	4.8	2.6	APHA 23 <sup>rd</sup> Ed.	
	Diversity	2.7	3.2	11	
. 3	Species	Triceratium dublum, Ornithocer cusheteroporus, Actiniscuscur cubita,	Thalassionema nitzschioides, Skeletonema costatum, Guinardia delicatula		
2	Zooplankton* (200 um mesh)				
	Biomass	0.082	0.042	APHA 23 <sup>rd</sup> Ed.	
	Diversity	1.4	1.7	1	
	Species	Sagitta bedoti, Paracalanus parvus, Acarti idaeeryhraea	Farranula carinata, Oithona brevicornis, Hyalocylix striata		
3	Benthos*				
F	Species	Strombus luhuanus, Cossurecoaste Miliolinella circularis, Solen brevis, Triloculina tricarinata	Spiroloculina communis , Siliqua radiate, Laevicardiuma pertom, Eponides repandus	APHA 23 <sup>rd</sup> Ed.	

Remark

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)

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[41]

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

## **Test Reports of Marine Sediment**

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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 .:

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

Monitoring Conducted By

23/08/2024 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

ND-Not Detected

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

### **CORPORATE OFFICE & CENTRAL LABORATORIES:**