



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: January 2024

Prepared By



NITYA LABORATORIES

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Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12th Major Port. It Works on the model of 'Landlord' concept. KPL's policy is to manage the port in a pro-active manner to minimize any impacts from port operations or new developments. Kamaraj port handles coal for Tamil Nadu Electric Board, POL products and export of automobiles. Data generations on environmental quality constitute the basis for environmental appraisal of the project. Thus, data on environmental quality has to be periodically monitored and also to comply with the TNPCB / MOEF conditions.

With this background and need Kamaraj Port Limited has appointed M/s. Nitya Laboratories to undertake the same. KPL has awarded the work to M/s. Nitya Laboratories vide work order No. KPL/MS/HSE/EM/05/2023 dated 10.03.2023.

Accordingly, environmental quality data on Ambient Air and Effluent (Sewage) for the month of October 2023 is presented in this report.

2.0 Scope and Methodology:

The scope of work, works carried out and methodology adopted for the survey are described below:

2.1 Ambient Air Quality

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM₁₀, PM_{2.5}, SO₂, NO₂, Methane and CO were monitored.

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AMBIENT AIR QUALITY MONITORING:

Ambient air quality was monitored at different locations inside the port. The study area covers the periphery of Port and different parts of the port. A Total of 8 Ambient Air Quality Monitoring Stations covering both upwind and downwind were monitored during November 2023.

Table: Detail of Ambient Air Quality Monitoring Locations

Sr. No	Stations Code	Sampling Locations
1	AAQM-1	Security Main Gate
2	AAQM-2	Inside Port Administrative Building
3	AAQM-3	Signal Station
4	AAQM-4	Finger Jetty
5	AAQM-5	At Car Parking Yard
6	AAQM-6	At General Cargo Berth
7	AAQM-7	At Fire Station
8	AAQM-8	Guest House

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i, e, at 8 Locations. A Total of 32 Samples each of PM₁₀ & PM_{2.5}, Samples of SO₂, NO₂, Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.



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Test Reports of Ambient Air Quality Monitoring


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

Test Report Date: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC63662400000012F	21.70	55.20	12.30	22.50	ND
2	05/01/2024	TC636624000000104F	24.20	52.30	11.80	21.70	ND
3	09/01/2024	TC636624000000211F	16.80	51.10	12.50	27.80	ND
4	12/01/2024	TC636624000000327F	17.40	56.40	11.10	19.50	ND
5	16/01/2024	TC636624000000395F	26.20	50.80	13.40	28.20	ND
6	19/01/2024	TC636624000000509F	17.10	54.20	12.10	29.30	ND
7	22/01/2024	TC636624000000621F	16.90	55.00	13.90	21.20	ND
8	26/01/2024	TC636624000000767F	18.40	50.20	14.10	23.20	ND
9	29/01/2024	TC636624000000888F	20.10	49.90	12.30	20.40	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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Issued To **M/s Kamarajar Port Trust**
Vallur Post, Chennai, India

Test Report Date: 09/02/2024

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	01/01/2024	202401010110	ND
2	05/01/2024	202401050110	ND
3	09/01/2024	202401090110	ND
4	12/01/2024	202401120110	ND
5	16/01/2024	202401160110	ND
6	19/01/2024	202401190110	ND
7	22/01/2024	202401220110	ND
8	26/01/2024	202401260110	ND
9	29/01/2024	202401290110	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: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC63662400000013F	22.20	27.50	11.20	16.50	ND
2	05/01/2024	TC636624000000105F	20.50	32.40	12.60	24.50	ND
3	09/01/2024	TC636624000000212F	23.70	43.20	13.40	27.20	ND
4	12/01/2024	TC636624000000328F	23.90	36.10	10.80	22.50	ND
5	16/01/2024	TC636624000000396F	17.90	38.40	11.40	26.90	ND
6	19/01/2024	TC636624000000510F	17.10	44.10	13.90	23.30	ND
7	22/01/2024	TC636624000000622F	19.80	23.90	11.70	26.00	ND
8	26/01/2024	TC636624000000768F	20.50	29.80	13.10	21.90	ND
9	29/01/2024	TC636624000000889F	21.10	30.40	12.90	23.80	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 (36)), (Part-II-sec.-3(i)) 15.11.2009. 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: 09/02/2024

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	01/01/2024	202401010111	ND
2	05/01/2024	202401050111	ND
3	09/01/2024	202401090111	ND
4	12/01/2024	202401120111	ND
5	16/01/2024	202401160111	ND
6	19/01/2024	202401190111	ND
7	22/01/2024	202401220111	ND
8	26/01/2024	202401260111	ND
9	29/01/2024	202401290111	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-8-sec.-3(i)] 16.11.2006, ND-Not Detected.
OL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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(RAVINDER MITTAL)

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Test Report Date: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC63662400000014F	28.20	48.20	13.20	23.20	ND
2	05/01/2024	TC636624000000106F	30.40	52.40	14.50	27.40	ND
3	09/01/2024	TC636624000000213F	24.20	41.20	11.20	26.50	ND
4	12/01/2024	TC636624000000329F	29.20	45.20	15.60	18.20	ND
5	16/01/2024	TC636624000000397F	27.70	49.40	12.30	16.50	ND
6	19/01/2024	TC636624000000511F	26.90	51.90	13.90	28.20	ND
7	22/01/2024	TC636624000000623F	23.40	54.20	11.80	29.40	ND
8	26/01/2024	TC636624000000769F	27.10	53.10	14.10	26.80	ND
9	29/01/2024	TC636624000000890F	29.20	50.80	12.80	20.40	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 (38)] [Part-II-sec.-3(i)] 16.11.2009; ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 09/02/2024

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	01/01/2024	202401010112	ND
2	05/01/2024	202401050112	ND
3	09/01/2024	202401090112	ND
4	12/01/2024	202401120112	ND
5	16/01/2024	202401160112	ND
6	19/01/2024	202401190112	ND
7	22/01/2024	202401220112	ND
8	26/01/2024	202401260112	ND
9	29/01/2024	202401290112	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (38)], [Part-B-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.
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Vallur Post, Chennai, India

Test Report Date: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC63662400000015F	25.20	44.20	13.80	23.60	ND
2	05/01/2024	TC636624000000107F	21.60	51.50	12.30	19.80	ND
3	09/01/2024	TC636624000000214F	21.40	48.20	14.10	22.30	ND
4	12/01/2024	TC636624000000330F	20.10	47.10	13.90	19.10	ND
5	16/01/2024	TC636624000000398F	18.90	52.20	16.50	20.40	ND
6	19/01/2024	TC636624000000512F	19.10	54.10	12.30	26.10	ND
7	22/01/2024	TC636624000000624F	22.30	44.20	14.00	27.10	ND
8	26/01/2024	TC636624000000770F	23.40	46.20	16.20	21.20	ND
9	29/01/2024	TC636624000000891F	21.90	45.60	15.80	20.80	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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9

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

Test Report Date: 09/02/2024

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	01/01/2024	202401010113	ND
2	05/01/2024	202401050113	ND
3	09/01/2024	202401090113	ND
4	12/01/2024	202401120113	ND
5	16/01/2024	202401160113	ND
6	19/01/2024	202401190113	ND
7	22/01/2024	202401220113	ND
8	26/01/2024	202401260113	ND
9	29/01/2024	202401290113	ND
Test Method			PID Based Methane Analyser

Remark:

NAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (III)], [Part-4-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)

(RAVINDER MITTAL)

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

Test Report Date: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC636624000000016F	27.20	30.10	19.20	26.90	ND
2	05/01/2024	TC6366240000000108F	30.10	36.20	21.30	23.40	ND
3	09/01/2024	TC6366240000000215F	17.40	34.10	25.60	26.20	ND
4	12/01/2024	TC6366240000000331F	16.80	42.50	18.30	21.40	ND
5	16/01/2024	TC6366240000000399F	21.50	44.40	28.40	30.10	ND
6	19/01/2024	TC6366240000000513F	29.40	45.20	23.50	25.70	ND
7	22/01/2024	TC6366240000000625F	26.10	41.30	21.00	27.10	ND
8	26/01/2024	TC6366240000000771F	27.90	35.20	22.80	26.10	ND
9	29/01/2024	TC6366240000000892F	25.80	34.60	23.10	27.80	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 (7B)], [Part-II-sec.-3(i)] 15.11.2009, 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: 09/02/2024

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	01/01/2024	202401010114	ND
2	05/01/2024	202401050114	ND
3	09/01/2024	202401090114	ND
4	12/01/2024	202401120114	ND
5	16/01/2024	202401160114	ND
6	19/01/2024	202401190114	ND
7	22/01/2024	202401220114	ND
8	26/01/2024	202401260114	ND
9	29/01/2024	202401290114	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)
(RAVINDER MITTAL)

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

Test Report Date: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC636624000000017F	20.20	35.20	16.20	19.40	ND
2	05/01/2024	TC636624000000109F	21.70	28.40	15.40	18.70	ND
3	09/01/2024	TC636624000000216F	28.40	29.50	14.50	22.80	ND
4	12/01/2024	TC636624000000332F	22.60	22.50	15.60	30.60	ND
5	16/01/2024	TC636624000000400F	23.50	30.20	14.10	26.50	ND
6	19/01/2024	TC636624000000514F	25.40	26.80	13.60	25.30	ND
7	22/01/2024	TC636624000000626F	23.70	23.90	13.20	28.20	ND
8	26/01/2024	TC636624000000772F	24.20	30.90	17.10	20.50	ND
9	29/01/2024	TC636624000000893F	22.40	29.90	15.00	18.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



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

Test Report Date: 09/02/2024

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	01/01/2024	202401010115	ND
2	05/01/2024	202401050115	ND
3	09/01/2024	202401090115	ND
4	12/01/2024	202401120115	ND
5	16/01/2024	202401160115	ND
6	19/01/2024	202401190115	ND
7	22/01/2024	202401220115	ND
8	26/01/2024	202401260115	ND
9	29/01/2024	202401290115	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-Deflection 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: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC63662400000018F	26.20	28.90	16.10	22.50	ND
2	05/01/2024	TC636624000000110F	25.30	27.40	17.40	19.80	ND
3	09/01/2024	TC636624000000217F	23.70	26.20	19.20	24.10	ND
4	12/01/2024	TC636624000000333F	20.10	25.80	15.80	27.70	ND
5	16/01/2024	TC636624000000401F	19.40	31.20	15.20	17.60	ND
6	18/01/2024	TC636624000000515F	22.80	28.10	21.10	18.80	ND
7	22/01/2024	TC636624000000627F	20.80	30.80	20.30	19.80	ND
8	26/01/2024	TC636624000000773F	22.70	28.40	18.30	20.40	ND
9	29/01/2024	TC636624000000894F	24.20	30.10	19.00	21.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



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

Test Report Date: 09/02/2024

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	01/01/2024	202401010116	ND
2	05/01/2024	202401050116	ND
3	09/01/2024	202401090116	ND
4	12/01/2024	202401120116	ND
5	16/01/2024	202401160116	ND
6	19/01/2024	202401190116	ND
7	22/01/2024	202401220116	ND
8	26/01/2024	202401260116	ND
9	29/01/2024	202401290116	ND
Test Method			PID Based Methane Analyser

Remark:

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


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

Test Report Date: 09/02/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/01/2024	TC63662400000019F	24.00	27.20	20.30	23.60	ND
2	05/01/2024	TC636624000000111F	23.90	30.60	19.40	30.40	ND
3	09/01/2024	TC636624000000218F	26.40	32.50	20.30	31.20	ND
4	12/01/2024	TC636624000000334F	29.50	42.50	21.40	28.40	ND
5	16/01/2024	TC636624000000402F	22.50	40.60	17.70	22.30	ND
6	19/01/2024	TC636624000000516F	21.80	36.50	15.90	20.70	ND
7	22/01/2024	TC636624000000628F	24.60	43.20	16.20	21.80	ND
8	26/01/2024	TC636624000000774F	27.10	40.10	18.40	25.40	ND
9	29/01/2024	TC636624000000895F	25.90	41.10	20.00	24.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII [Rule 3 (38)] [Part-II-sec -30]] 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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



TC-6366



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

Test Report Date: 09/02/2024

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	01/01/2024	202401010117	ND
2	05/01/2024	202401050117	ND
3	09/01/2024	202401090117	ND
4	12/01/2024	202401120117	ND
5	16/01/2024	202401160117	ND
6	19/01/2024	202401190117	ND
7	22/01/2024	202401220117	ND
8	25/01/2024	202401260117	ND
9	29/01/2024	202401290117	ND
Test Method			PID Based Methane Analyser

Remark:

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

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(RAVINDER MITTAL)

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Test Reports of Wastewater (STP)


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(RAVINDER MITTAL)

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

ULR No.: **TC636624000000876F-877F**
Test Report Date: **09/02/2024**

Sample Particulars

Nature of the Sample	: Wastewater (STP)
Sample Quantity & Packaging	: 1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	: 03/02/2024
Test Started On	: 03/02/2024
Test Completed On	: 08/02/2024
Method of Sampling	: SOP/B/D-3
Date of Sampling	: 29/01/2024
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	---	7.32	7.08	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	98	198	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	50	40	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	810	8	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	542	768	<1000	IS:1622



(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Kamarajar Port Limited
Vallur Post, Chennai-600 120, Tamil Nadu, India

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: February 2024

Prepared By



NITYA LABORATORIES

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2	Test Reports of Effluent (Sewage) Monitoring	18-19



Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12th Major Port. It Works on the model of 'Landlord' concept. KPL's policy is to manage the port in a pro-active manner to minimize any impacts from port operations or new developments. Kamaraj port handles coal for Tamil Nadu Electric Board, POL products and export of automobiles. Data generations on environmental quality constitute the basis for environmental appraisal of the project. Thus, data on environmental quality has to be periodically monitored and also to comply with the TNPCB / MOEF conditions.

With this background and need Kamaraj Port Limited has appointed M/s. Nitya Laboratories to undertake the same. KPL has awarded the work to M/s. Nitya Laboratories vide work order No. KPL/MS/HSE/EM/05/2023 dated 10.03.2023.

Accordingly, environmental quality data on Ambient Air and Effluent (Sewage) for the month of October 2023 is presented in this report.

2.0 Scope and Methodology:

The scope of work, works carried out and methodology adopted for the survey are described below:

2.1 Ambient Air Quality

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM₁₀, PM_{2.5}, SO₂, NO₂, Methane and CO were monitored.



AMBIENT AIR QUALITY MONITORING:

Ambient air quality was monitored at different locations inside the port. The study area covers the periphery of Port and different parts of the port. A Total of 8 Ambient Air Quality Monitoring Stations covering both upwind and downwind were monitored during November 2023.

Table: Detail of Ambient Air Quality Monitoring Locations

Sr. No	Stations Code	Sampling Locations
1	AAQM-1	Security Main Gate
2	AAQM-2	Inside Port Administrative Building
3	AAQM-3	Signal Station
4	AAQM-4	Finger Jetty
5	AAQM-5	At Car Parking Yard
6	AAQM-6	At General Cargo Berth
7	AAQM-7	At Fire Station
8	AAQM-8	Guest House

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i, e, at 8 Locations. A Total of 32 Samples each of PM_{10} & $PM_{2.5}$. Samples of SO_2 , NO_2 Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.

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Test Reports of Ambient Air Quality Monitoring


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

Test Report Date: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001065F	19.20	50.40	10.90	18.50	ND
2	05/02/2024	TC636624000001155F	21.60	49.20	12.40	17.80	ND
3	09/02/2024	TC636624000001303F	15.80	48.20	11.30	23.90	ND
4	12/02/2024	TC636624000001322F	16.10	53.10	13.60	17.20	ND
5	15/02/2024	TC636624000001509F	22.90	48.60	10.40	23.10	ND
6	19/02/2024	TC636624000001544F	16.00	51.20	14.10	24.60	ND
7	23/02/2024	TC636624000001678F	15.80	52.50	13.80	19.60	ND
8	26/02/2024	TC636624000001734F	16.20	48.90	12.00	20.50	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 (3)(i), (Part-II-sec.-3)] 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 Analyzed 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: 05/03/2024

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	02/02/2024	202402020110	ND
2	05/02/2024	202402050110	ND
3	09/02/2024	202402090110	ND
4	12/02/2024	202402120110	ND
5	16/02/2024	202402160110	ND
6	19/02/2024	202402190110	ND
7	23/02/2024	202402230110	ND
8	26/02/2024	202402260110	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, (Rule 3 (3B)), (Part-II-sec-3(ii)) 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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Vallur Post, Chennai, India

Test Report Date: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001066F	20.50	24.90	13.10	18.10	ND
2	05/02/2024	TC636624000001156F	17.80	28.50	10.40	20.50	ND
3	09/02/2024	TC636624000001304F	20.80	38.20	11.60	22.60	ND
4	12/02/2024	TC636624000001323F	21.00	31.60	12.50	19.50	ND
5	16/02/2024	TC636624000001510F	16.90	32.40	13.20	21.10	ND
6	19/02/2024	TC636624000001545F	18.10	38.10	14.10	19.10	ND
7	23/02/2024	TC636624000001679F	17.20	21.90	13.00	21.00	ND
8	26/02/2024	TC636624000001735F	18.40	25.80	12.10	17.90	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)

Remarks:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-II sec. 3(i)] 15.11.2009. 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: 05/03/2024

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	02/02/2024	202402020111	ND
2	05/02/2024	202402050111	ND
3	09/02/2024	202402090111	ND
4	12/02/2024	202402120111	ND
5	16/02/2024	202402160111	ND
6	19/02/2024	202402190111	ND
7	23/02/2024	202402230111	ND
8	26/02/2024	202402260111	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI (Rule 3 (3R)), [Part-II-sec -3(i)] 15.11.2009, 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: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001067F	25.30	45.50	11.90	19.20	ND
2	05/02/2024	TC636624000001157F	26.60	48.60	12.40	22.30	ND
3	09/02/2024	TC636624000001305F	21.50	39.20	14.10	21.80	ND
4	12/02/2024	TC636624000001324F	25.40	41.20	13.00	17.90	ND
5	16/02/2024	TC636624000001511F	24.60	45.30	10.80	15.80	ND
6	19/02/2024	TC636624000001548F	23.50	47.20	11.10	23.10	ND
7	23/02/2024	TC636624000001680F	20.60	49.80	13.20	24.20	ND
8	26/02/2024	TC636624000001736F	24.00	48.10	12.90	22.00	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-I-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-Control Pollution Control Board



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

Test Report Date: 05/03/2024

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	02/02/2024	202402020112	ND
2	05/02/2024	202402050112	ND
3	09/02/2024	202402090112	ND
4	12/02/2024	202402120112	ND
5	16/02/2024	202402160112	ND
6	19/02/2024	202402190112	ND
7	23/02/2024	202402230112	ND
8	26/02/2024	202402260112	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)], [Part-II sec -3(i)] 16.11.2008, 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: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001068F	21.60	40.60	12.00	19.60	ND
2	05/02/2024	TC636624000001158F	19.10	46.10	11.20	16.60	ND
3	08/02/2024	TC636624000001306F	18.80	43.30	12.60	18.40	ND
4	12/02/2024	TC636624000001325F	17.40	42.80	11.00	16.00	ND
5	16/02/2024	TC636624000001512F	19.80	47.00	13.40	17.50	ND
6	19/02/2024	TC636624000001547F	17.90	49.10	14.20	21.10	ND
7	23/02/2024	TC636624000001681F	20.30	40.10	16.10	22.30	ND
8	26/02/2024	TC636624000001737F	22.00	42.50	15.80	18.00	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009. ND-Not Detected.
CL-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)
(RAVINDER MITTAL)

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

Test Report Date: 05/03/2024

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	02/02/2024	202402020113	ND
2	05/02/2024	202402050113	ND
3	09/02/2024	202402090113	ND
4	12/02/2024	202402120113	ND
5	16/02/2024	202402160113	ND
6	19/02/2024	202402190113	ND
7	23/02/2024	202402230113	ND
8	26/02/2024	202402260113	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: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001069F	24.40	27.90	17.10	22.50	ND
2	05/02/2024	TC636624000001159F	26.50	33.50	19.20	21.10	ND
3	09/02/2024	TC636624000001307F	19.20	31.20	22.10	23.90	ND
4	12/02/2024	TC636624000001326F	18.40	39.20	16.90	19.50	ND
5	16/02/2024	TC636624000001513F	17.80	40.10	24.20	27.10	ND
6	19/02/2024	TC636624000001548F	26.30	41.70	20.50	23.40	ND
7	23/02/2024	TC636624000001682F	23.70	37.10	18.80	22.90	ND
8	26/02/2024	TC636624000001738F	24.40	32.40	19.00	21.80	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 (B)), (Part-II-sec.-30)) 15.11.2009. 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



TC-6366



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(RAVINDER MITTAL)

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

Test Report Date: 05/03/2024

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	02/02/2024	202402020114	ND
2	05/02/2024	202402050114	ND
3	09/02/2024	202402090114	ND
4	12/02/2024	202402120114	ND
5	16/02/2024	202402160114	ND
6	19/02/2024	202402190114	ND
7	23/02/2024	202402230114	ND
8	26/02/2024	202402260114	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII (Rule 3 (B)(i), (Part-II-sec.-3(i)) 15.11.2009. 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: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001070F	18.50	33.10	14.50	17.50	ND
2	05/02/2024	TC636624000001160F	19.20	26.40	13.80	16.20	ND
3	09/02/2024	TC636624000001308F	25.30	27.10	12.20	19.40	ND
4	12/02/2024	TC636624000001327F	19.70	23.50	13.10	25.20	ND
5	16/02/2024	TC636624000001514F	20.40	28.50	11.90	21.60	ND
6	19/02/2024	TC636624000001549F	22.60	24.60	12.90	20.40	ND
7	23/02/2024	TC636624000001683F	20.90	25.20	15.10	23.50	ND
8	26/02/2024	TC636624000001739F	21.30	28.10	16.20	19.80	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 (2B)], (Part-I-sec-3(i)) 18.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analyzed 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: 05/03/2024

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	02/02/2024	202402020115	ND
2	05/02/2024	202402050115	ND
3	09/02/2024	202402090115	ND
4	12/02/2024	202402120115	ND
5	16/02/2024	202402160115	ND
6	19/02/2024	202402190115	ND
7	23/02/2024	202402230115	ND
8	26/02/2024	202402260115	ND
Test Method			PID Based Methane Analyser

Remarks:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, (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)
(RAVINDER MITTAL)

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

Test Report Date: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001071F	23.70	25.60	15.00	20.10	ND
2	05/02/2024	TC636624000001161F	22.50	24.80	16.20	18.90	ND
3	09/02/2024	TC636624000001309F	20.80	23.60	17.50	22.10	ND
4	12/02/2024	TC636624000001328F	19.10	22.90	16.90	25.60	ND
5	16/02/2024	TC636624000001515F	18.80	26.20	18.10	20.60	ND
6	19/02/2024	TC636624000001550F	20.90	24.10	19.20	17.20	ND
7	23/02/2024	TC636624000001684F	21.10	25.50	21.20	18.90	ND
8	26/02/2024	TC636624000001740F	23.00	25.10	20.80	22.00	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VII (Rule 3 (3B)) (Part-II, sec.-3(i)) 15.11.2009, 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



TC-6366

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

Test Report Date: 05/03/2024

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	02/02/2024	202402020116	ND
2	05/02/2024	202402050116	ND
3	09/02/2024	202402090116	ND
4	12/02/2024	202402120116	ND
5	16/02/2024	202402160116	ND
6	19/02/2024	202402190116	ND
7	23/02/2024	202402230116	ND
9	26/02/2024	202401290116	ND
Test Method			PID Based Methane Analyser

Remark:

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


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

Test Report Date: 05/03/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/02/2024	TC636624000001072F	21.80	25.10	17.50	20.70	ND
2	05/02/2024	TC636624000001162F	20.50	27.20	16.20	25.90	ND
3	09/02/2024	TC636624000001310F	23.60	29.20	18.00	26.20	ND
4	12/02/2024	TC636624000001329F	26.80	38.20	19.10	23.40	ND
5	16/02/2024	TC636624000001516F	20.70	36.20	16.00	20.40	ND
6	19/02/2024	TC636624000001551F	22.50	32.60	17.20	21.10	ND
7	23/02/2024	TC636624000001685F	21.90	37.20	15.90	20.30	ND
8	26/02/2024	TC636624000001741F	24.40	35.80	16.80	22.70	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-VI [Rule 3 (B)] [Part-II-sec-3(i)] 15.11.2009, 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: 05/03/2024

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	02/02/2024	202402020117	ND
2	05/02/2024	202402050117	ND
3	09/02/2024	202402090117	ND
4	12/02/2024	202402120117	ND
5	16/02/2024	202402160117	ND
6	19/02/2024	202402190117	ND
7	23/02/2024	202402230117	ND
8	26/02/2024	202402260117	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII (Part-3 (B)) (Part-II-sec -50)) 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 Wastewater (STP)


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Vallur Post, Chennai, India

ULR No.: TC636624000001794F-1795F
Test Report Date: 06/03/2024

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : **1.0 Liter, Pet Bottle (Each)**
Sample Received at Lab : **01/03/2024**
Test Started On : **01/03/2024**
Test Completed On : **05/03/2024**
Method of Sampling : **SOP/B/D-3**
Date of Sampling : **27/02/2024**
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	---	7.21	7.11	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	80	180	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	60	50	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	740	6	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	486	669	<1000	IS:1622



TC-6366

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



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Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: March 2024

Prepared By



NITYA LABORATORIES

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Test Reports of Ambient Air Quality Monitoring


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

Test Report Date: 09/07/2023

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	ULR 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	01/03/2024	TC636624000001919F	23.90	57.70	15.50	25.10	ND
2	04/03/2024	TC636624000001947F	27.35	54.70	14.90	23.50	ND
3	08/03/2024	TC636624000002039F	20.51	53.40	10.70	27.90	ND
4	11/03/2024	TC636624000002077F	22.64	57.80	13.80	20.30	ND
5	15/03/2024	TC636624000002200F	29.91	54.40	17.20	29.70	ND
6	18/03/2024	TC636624000002252F	27.79	56.80	14.20	30.40	ND
7	22/03/2024	TC636624000002377F	20.51	57.70	12.10	21.10	ND
8	25/03/2024	TC636624000002467F	25.64	50.70	16.10	28.10	ND
9	28/03/2024	TC636624000002578F	26.49	51.20	14.40	26.30	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, (Part-3 (2B)) (Part-3 (2B)) 18.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately determined 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: 06/06/2023

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	01/03/2024	202403010110	ND
2	04/03/2024	202403040110	ND
3	08/03/2024	202403080110	ND
4	11/03/2024	202403110110	ND
5	15/03/2024	202403150110	ND
6	18/03/2024	202403180110	ND
7	22/03/2024	202403220110	ND
8	25/03/2024	202403250110	ND
9	28/03/2024	202403280110	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)] (Part-II-sec-3(i)) 15.11.2009, 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: 06/06/2023

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	ULR 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	01/03/2024	TC636624000001920F	31.20	30.10	14.50	17.40	ND
2	04/03/2024	TC636624000001948F	23.93	24.50	16.50	25.40	ND
3	08/03/2024	TC636624000002040F	27.35	45.10	12.70	29.40	ND
4	11/03/2024	TC636624000002078F	28.63	39.40	14.40	23.50	ND
5	15/03/2024	TC636624000002201F	20.51	41.50	15.50	28.40	ND
6	18/03/2024	TC636624000002253F	19.65	48.10	17.40	24.40	ND
7	22/03/2024	TC636624000002378F	22.64	26.10	11.10	27.10	ND
8	25/03/2024	TC636624000002458F	26.49	39.20	18.10	30.40	ND
9	28/03/2024	TC636624000002577F	28.20	38.20	16.20	28.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, (Part 3 (B)) (Part 8-sec-3(i)) 16.11.2008. 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: 06/06/2023

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	01/03/2024	202403010111	ND
2	04/03/2024	202403040111	ND
3	08/03/2024	202403080111	ND
4	11/03/2024	202403110111	ND
5	15/03/2024	202403150111	ND
6	18/03/2024	202403180111	ND
7	22/03/2024	202403220111	ND
8	25/03/2024	202403250111	ND
9	28/03/2024	202403280111	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (3B)) (Part-I-sec-3(i)) 15.11.2009, 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: 06/06/2023

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	ULR 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	01/03/2024	TC636624000001921F	31.62	50.40	16.60	26.10	ND
2	04/03/2024	TC636624000001949F	33.76	55.20	17.40	30.50	ND
3	08/03/2024	TC636624000002041F	28.49	43.20	15.40	29.70	ND
4	11/03/2024	TC636624000002079F	32.47	46.20	18.10	21.60	ND
5	15/03/2024	TC636624000002202F	30.76	51.20	12.80	19.50	ND
6	18/03/2024	TC636624000002254F	28.20	54.40	14.50	31.50	ND
7	22/03/2024	TC636624000002379F	24.78	58.10	13.90	32.40	ND
8	25/03/2024	TC636624000002469F	33.76	41.70	11.50	33.50	ND
9	28/03/2024	TC636624000002578F	25.50	46.30	12.20	32.90	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 (III)] [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: 06/06/2023

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	01/03/2024	202403010112	ND
2	04/03/2024	202403040112	ND
3	08/03/2024	202403080112	ND
4	11/03/2024	202403110112	ND
5	15/03/2024	202403150112	ND
6	18/03/2024	202403180112	ND
7	22/03/2024	202403220112	ND
8	25/03/2024	202403250112	ND
9	28/03/2024	202403280112	
Test Method			PID Based Methane Analyser

Remark:

NAAQE: National Ambient Air Quality Standards: Schedule-VI, (Rule 3 (3B)) (Part-II-sec-3(i)) 15.11.2008, 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: 06/06/2023

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	ULR 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	01/03/2024	TC636624000001922F	30.34	53.60	12.20	26.10	ND
2	04/03/2024	TC636624000001950F	29.48	58.10	14.10	22.70	ND
3	08/03/2024	TC636624000002042F	21.79	58.40	16.20	27.40	ND
4	11/03/2024	TC636624000002080F	25.64	52.90	17.50	25.40	ND
5	15/03/2024	TC636624000002203F	19.65	57.10	19.50	24.40	ND
6	18/03/2024	TC636624000002255F	17.52	58.70	11.10	29.40	ND
7	22/03/2024	TC636624000002380F	27.35	50.70	13.40	26.40	ND
8	25/03/2024	TC636624000002470F	26.48	52.20	12.10	26.30	ND
9	28/03/2024	TC636624000002579F	25.80	59.70	19.20	25.50	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 (III)], [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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



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Test Report Date: 06/06/2023

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

1. **Ambient Air Quality Monitoring**

2. To Check the Pollution Load

3. Signal Station

4. IS 5182 (Part 14)

5. Mr. Shridhar

6. 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	01/03/2024	202403010113	ND
2	04/03/2024	202403040113	ND
3	08/03/2024	202403080113	ND
4	11/03/2024	202403110113	ND
5	15/03/2024	202403150113	ND
6	18/03/2024	202403180113	ND
7	22/03/2024	202403220113	ND
8	25/03/2024	202403250113	ND
9	28/03/2024	202403280113	
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (2B)], [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: 06/06/2023

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	ULR 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	01/03/2024	TC636624000001923F	25.64	34.80	20.10	23.40	ND
2	04/03/2024	TC636624000001951F	31.19	36.10	26.40	22.90	ND
3	08/03/2024	TC636624000002043F	19.23	40.50	30.10	21.80	ND
4	11/03/2024	TC636624000002081F	16.66	50.20	33.40	20.90	ND
5	15/03/2024	TC636624000002204F	24.35	53.10	32.10	27.40	ND
6	18/03/2024	TC636624000002255F	30.34	41.20	27.40	28.40	ND
7	22/03/2024	TC636624000002381F	27.35	48.80	31.40	29.10	ND
8	25/03/2024	TC636624000002471F	26.92	45.80	30.60	26.40	ND
9	28/03/2024	TC636624000002580F	26.49	46.20	31.10	22.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPECB 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 (2B)], [Part II-sec-3(i)] 18.11.2009. 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. CPECB-Central Pollution Control Board



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

Test Report Date: 06/06/2023

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	01/03/2024	202403010114	ND
2	04/03/2024	202403040114	ND
3	08/03/2024	202403080114	ND
4	11/03/2024	202403110114	ND
5	15/03/2024	202403150114	ND
6	18/03/2024	202403180114	ND
7	22/03/2024	202403220114	ND
8	25/03/2024	202403250114	ND
9	28/03/2024	202403280114	
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: 06/06/2023

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	ULR 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	01/03/2024	TC636624000001924F	21.36	29.70	12.10	21.50	ND
2	04/03/2024	TC636624000001952F	23.50	32.40	15.40	23.60	ND
3	08/03/2024	TC636624000002044F	34.61	38.40	17.80	26.70	ND
4	11/03/2024	TC636624000002082F	25.64	30.90	18.10	32.10	ND
5	15/03/2024	TC636624000002205F	26.40	34.10	11.20	33.10	ND
6	18/03/2024	TC636624000002257F	28.63	35.90	14.40	28.20	ND
7	22/03/2024	TC636624000002382F	30.76	36.60	15.60	31.40	ND
8	25/03/2024	TC636624000002472F	19.23	30.40	19.10	29.40	ND
9	28/03/2024	TC636624000002581F	28.20	34.20	16.20	28.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, (Rule 3 (2B), Part-II-sec-303) 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: 06/06/2023

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	01/03/2024	202403010115	ND
2	04/03/2024	202403040115	ND
3	08/03/2024	202403080115	ND
4	11/03/2024	202403110115	ND
5	15/03/2024	202403150115	ND
6	18/03/2024	202403180115	ND
7	22/03/2024	202403220115	ND
8	25/03/2024	202403250115	ND
9	28/03/2024	202403280115	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS- National Ambient Air Quality Standards; Schedule-VII (Rule 3 (3B)) (Part-I, 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: 06/06/2023

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	ULR 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	01/03/2024	TC636624000001925F	29.48	33.10	16.50	25.80	ND
2	04/03/2024	TC636624000001953F	28.65	31.90	21.40	27.40	ND
3	08/03/2024	TC636624000002045F	30.76	36.40	18.50	32.80	ND
4	11/03/2024	TC636624000002083F	22.64	32.10	13.60	34.80	ND
5	15/03/2024	TC636624000002206F	25.21	35.20	15.80	22.50	ND
6	18/03/2024	TC636624000002258F	24.35	32.60	17.80	25.90	ND
7	22/03/2024	TC636624000002383F	26.49	34.40	22.50	23.60	ND
8	25/03/2024	TC636624000002473F	27.35	36.10	17.90	20.80	ND
9	28/03/2024	TC636624000002582F	25.45	30.40	16.20	24.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (2B)) (Part-I-sec-3(i)) 18.11.2009, 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: 06/06/2023

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	01/03/2024	202403010116	ND
2	04/03/2024	202403040116	ND
3	08/03/2024	202403080116	ND
4	11/03/2024	202403110116	ND
5	15/03/2024	202403150116	ND
6	18/03/2024	202403180116	ND
7	22/03/2024	202403220116	ND
8	25/03/2024	202403250116	ND
9	28/03/2024	202403280116	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: 06/06/2023

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	ULR 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	01/03/2024	TC636624000001926F	27.10	32.40	18.50	26.10	ND
2	04/03/2024	TC636624000001954F	25.64	30.50	20.80	32.10	ND
3	08/03/2024	TC636624000002046F	26.49	32.70	22.50	34.50	ND
4	11/03/2024	TC636624000002084F	30.76	47.20	23.90	31.40	ND
5	15/03/2024	TC636624000002207F	24.48	41.80	13.50	23.50	ND
6	18/03/2024	TC636624000002259F	23.50	36.20	14.40	22.60	ND
7	22/03/2024	TC636624000002384F	25.64	44.60	15.10	23.80	ND
8	25/03/2024	TC636624000002474F	26.92	45.20	15.90	24.90	ND
9	28/03/2024	TC636624000002583F	26.48	44.30	15.70	25.30	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)] 16.11.2008, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



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Vallur Post, Chennai, India

Test Report Date: 06/06/2023

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	01/03/2024	202403010117	ND
2	04/03/2024	202403040117	ND
3	08/03/2024	202403080117	ND
4	11/03/2024	202403110117	ND
5	15/03/2024	202403150117	ND
6	18/03/2024	202403180117	ND
7	22/03/2024	202403220117	ND
8	25/03/2024	202403250117	ND
9	28/03/2024	202403280117	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (30)] [Part-II-sec.-3(i)] 15.11.2009, 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 Wastewater (STP)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

ULR No.: TC636624000002395F-2396F
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : **1.0 Liter, Pet Bottle(Each)**
Sample Received at Lab : **26/03/2024**
Test Started On : **26/03/2024**
Test Completed On : **02/04/2024**
Method of Sampling : **SOP/B/D-3**
Date of Sampling : **22/03/2024**
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	---	7.48	7.64	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	32	40	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	70	40	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	16	8	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	219	366	<1000	IS:1622




(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Reports of Surface Water


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

ULR No.: TC636624000002392F-2394F
Test Report Date: 03/04/2024

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)
26/03/2024
26/03/2024
02/04/2024
SOP/B/D-3
22/03/2024
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	pH	-	7.68	8.07	7.89	IS:3025 (P-11)
2	Temperature	°C	25.9	26.7	26.3	IS:3025 (P-9)
3	Electrical Conductivity	µs/cm	360	400	390	IS:3025 (P-14)
4	Turbidity	NTU	<1	<1	<1	APHA 23 rd Ed
5	Total Dissolved Solids	mg/l	210	250	230	IS:3025 (P-16)
6	Sulphate as SO ₄	mg/l	21.90	23.80	22.50	APHA 23 rd Ed
7	Nitrates as NO ₃	mg/l	0.98	1.08	1.03	IS:3025 (P-34)
8	Total Ammonia	mg/l	ND	ND	ND	IS:3025 (P-34)
9	Total Suspended Solids	mg/l	10	8	6	IS:3025 (P-17)
10	Dissolved Oxygen as DO	mg/l	6.5	6.1	6.2	IS:3025 (P-38)
11	Biological Oxygen Demand	mg/l	12	14	9	IS:3025 (P-44)
12	Chemical Oxygen Demand	mg/l	50	70	40	IS:3025 (P-58)
13	Copper as Cu	mg/l	ND	ND	ND	APHA 23 rd Ed
14	Iron (as Fe)	mg/l	0.54	0.75	0.45	APHA 23 rd Ed
15	Zinc as Zn	mg/l	0.29	0.37	0.19	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	281	515	345	IS:1622

Remark:
DL-Detection Limit


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)



TC-6366


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

Test Report No.: 202403220118-120
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : 3.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 26/03/2024
Test Started On : 26/03/2024
Test Completed On : 02/04/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 22/03/2024
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	1.02	0.790	0.610	APHA 23 rd Ed.
3	Phaeophytin	mg/m ³	17.40	17.80	17.60	APHA 23 rd Ed.
4	Salinity	PPT	0.230	0.280	0.250	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	1.30	1.68	1.88	IS 3025 (P-34)
7	Inorganic Phosphate	mg/l	0.18	0.35	0.26	IS 3025 (P-31)
8	Total Phosphate as P	mg/l	0.30	0.50	0.41	IS 3025 (P-31)

Remark: DL-Detection Limit


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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202403220118-120
Test Report Date: 03/04/2024

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)
26/03/2024
26/03/2024
02/04/2024
SOP/B/D-3
22/03/2024
Mr. Shridhar
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* (54 um mesh)				
	Biomass	1.65	1.7	3.2	APHA 23 rd Ed.
	Diversity	2.5	2.1	2.7	NL/SOP/MB/PHP/31
	Species	Actinastrumaculose, Ceratium belone Anabaena spiroids	Anabaena circinalis, Actiniscus pentasterias	Microcystic aeruginosa Bacteriastrum cosmosum	APHA 23 rd Ed.
2	Zooplankton* (200 um mesh)				
	Biomass	0.028	0.051	0.036	APHA 23 rd Ed.
	Diversity	1.9	2.8	2.5	NL/SOP/MB/ZP/30
	Species	Brachionus nilsoni, Daphnia longispina, Globigerina bulloides	Cerodaphnia comuta, Synecho cystisminuscule	Tropocyclops pracinus, Cyclops varicans, Paracala nusparvus,	APHA 23 rd Ed.
3	Benthos*				
	Species	Corbicula assamensis Cyphon larva,	Aeshna juncea, Psephenoidinae gyrinidae	Anadara granosa Musca domestica, Cymadusa pathyi	APHA 23 rd Ed.


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


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Test Reports of Marine Water


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Vallur Post, Chennai, India

Test Report No.: 202403220121-122
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 26/03/2024
Test Started On : 26/03/2024
Test Completed On : 02/04/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 22/03/2024
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	-	8.02	8.28	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28.8	27	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	48560	49820	IS:3025 (P-14)	-
4	Turbidity	NTU	2.3	1.5	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	31560	29890	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2360	2480	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	2.15	2.45	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	14	10	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	10	11	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	50	60	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.16	0.19	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.04	0.09	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.11	0.16	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	1.1	1.3	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	16.20	15.80	APHA 23 rd Ed.	-
23	Salinity	PPT	33.20	31.60	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	2.42	2.85	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.13	0.19	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.22	0.30	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	187	253	IS:1622	500/100 ml

Remark

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Valur Post, Chennai, India

Test Report No.: 202403220123-124
Test Report Date: 03/04/2024

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)
26/03/2024
26/03/2024
02/04/2024
SOP/B/D-3
22/03/2024
Mr. Shridhar
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	-	7.89	8.05	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.3	26.9	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	41960	42810	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed	-
5	Total Dissolved Solids	mg/l	27270	27820	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1980	2010	APHA 23 rd Ed	-
7	Nitrates as NO ₃	mg/l	3.1	3.6	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	10	13	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.5	6.1	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	9	12	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	40	50	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.08	0.12	APHA 23 rd Ed	-
14	Iron (as Fe)	mg/l	0.05	0.15	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	1.80	1.40	APHA 23 rd Ed	-
22	Phaeophytin	mg/m ³	16.20	16.90	APHA 23 rd Ed	-
23	Salinity	PPT	29.80	30.10	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	3.95	4.10	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.06	0.04	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.10	0.09	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	278	221	IS:1622	500/100 ml

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.: 202403220123-124
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample	Marine Water
Sample Quantity & Packaging	1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab	26/03/2024
Test Started On	26/03/2024
Test Completed On	02/04/2024
Method of Sampling	SOP/B/D-3
Date of Sampling	22/03/2024
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)			
	Biomass	4.1	3.2	APHA 23 rd Ed.
	Diversity	3.1	2.0	
	Species	Thalassionemanitzs chioides, Ditylum brightwelli, Triceratium dubium	Coscinodiscus radiates, Guinardia delicatula	
2	Zooplankton* (200 um mesh)			
	Biomass	0.018	0.038	APHA 23 rd Ed.
	Diversity	1.4	2.8	
	Species	Calocalanus pavo, Metacylisjor gensenii, Tortanus barbatus	Penilia avirostris, Eutimninus tenue, Cressis acicula, Undinula vulgaris	
3	Benthos*			
	Species	Agaronia nebulosa, Dodecaceriacapensis Armandi a intermedia	Sinummentoi darum, Pinna bicolour, Macramera, Pulicellaarmata,	APHA 23 rd Ed.


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Report No.: 202403220125-126
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 26/03/2024
Test Started On : 26/03/2024
Test Completed On : 02/04/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 22/03/2024
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	-	8.14	8.18	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.1	27	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	45280	45990	IS:3025 (P-14)	-
4	Turbidity	NTU	2.5	2.9	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	29140	29620	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1860	2940	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	4.02	4.40	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	12	18	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.4	6.0	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	8	9	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	40	50	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.13	0.18	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.14	0.23	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.22	24	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	1.26	1.60	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	15.80	16.70	APHA 23 rd Ed.	-
23	Salinity	PPT	30.20	30.70	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	4.42	4.80	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.16	0.20	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.26	0.32	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	345	426	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.: 202403220125-126
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample	Marine Water
Sample Quantity & Packaging	1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab	26/03/2024
Test Started On	26/03/2024
Test Completed On	02/04/2024
Method of Sampling	SOP/B/D-3
Date of Sampling	22/03/2024
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	2.3	2.4	APHA 23 rd Ed.
	Diversity	2.7	3.6	
	Species	Actiniscus pentasterias, Ceratomyxa furca, Dinosphaera physiculium	Peridinium claudicans, Peridinium gracile, Fragilariopsis oceanica	
2	Zooplankton* (200 um mesh)			
	Biomass	0.081	0.064	APHA 23 rd Ed.
	Diversity	2.5	1.8	
	Species	Paracandacia truncata, Labidocera acuta, Corycaidae catus	Hyalocylis striata, Oncaeidae mediterranea, Aglaurea mistoma	
3	Benthos*			
	Species	Macoma birmannica, Streblospio benedicti, Rictupellicula, Jasminella elegans,	Conus canonicus, Melina cristata, Puzosia cochlidium, Anadara granosa, Prionos piocinifera	APHA 23 rd Ed.

Remarks
ND-Not Detected


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


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Valur Post, Chennai, India

Test Report No.: 202403220127-128
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 26/03/2024
Test Started On : 26/03/2024
Test Completed On : 02/04/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 22/03/2024
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	-	7.91	8.03	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	26.4	26.8	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	50680	51840	IS:3025 (P-14)	-
4	Turbidity	NTU	3.7	3.2	APHA 23 rd Ed	-
5	Total Dissolved Solids	mg/l	32940	33660	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2400	2510	APHA 23 rd Ed	-
7	Nitrates as NO ₃	mg/l	5.02	5.40	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	10	13	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.7	6.4	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	5	7	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	32	42	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed	-
14	Iron (as Fe)	mg/l	0.15	0.20	APHA 23 rd Ed	-
15	Zinc as Zn	mg/l	0.09	0.13	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	1.8	2.1	APHA 23 rd Ed	-
22	Phaeophytin	mg/m ³	16.90	17.00	APHA 23 rd Ed	-
23	Salinity	PPT	34.60	34.90	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	5.50	5.84	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.11	0.13	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.18	0.20	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	542	221	IS:1822-500/100 ml	-

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202403220127-128
Test Report Date: 03/04/2024

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)
26/03/2024
26/03/2024
02/04/2024
SOP/B/D-3
22/03/2024
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)			
	Biomass	7.6	5.3	APHA 23 rd Ed.
	Diversity	2.4	1.9	
	Species	Talassiosira pseudonana Bacteriastrum cosmosum, Skeletonema costatum	Bacteriastrum rhombus, Farranula carinata, Lauderiana sulcata	
2	Zooplankton* (200 um mesh)			
	Biomass	0.058	0.088	APHA 23 rd Ed.
	Diversity	2.7	3.2	
	Species	Eucalanus, Copilia quadrata, Oosinia trigona	Subeucalanus crassus, A. Longicornis Farranula carinata	
3	Benthos*			
	Species	Paphiasemirugata, isopods, Pitarabastrum, Pugilina cochlidium	Cossura coasta, Quadrivisioboneri, Circe scripta, Anadara granosa, Laternula anatina	APHA 23 rd Ed.


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(RHYTHM BASSON*)


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Test Report No.: 202403220129-130
Test Report Date: 03/04/2024

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)
26/03/2024
26/03/2024
02/04/2024
SOP/B/D-3
22/03/2024
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 Results		Protocol	SW-Class-IV Harbour Standards
			MW-9	MW-10		
1	pH	-	7.79	8.01	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	27.2	28.1	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	40620	40980	IS:3025 (P-14)	-
4	Turbidity	NTU	2.7	2.9	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	26400	26650	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1790	1850	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	3.10	3.56	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	12	15	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	6	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	24	32	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.13	0.18	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.15	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	1.0	1.02	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	17.20	17.50	APHA 23 rd Ed.	-
23	Salinity	PPT	28.30	28.90	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	3.38	3.91	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.15	0.14	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.26	0.22	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	172	426	IS: 1622	500/100 ml

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202403220129-130
Test Report Date: 03/04/2024

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)
26/03/2024
26/03/2024
02/04/2024
SOP/B/D-3
22/03/2024
Mr. Shridhar
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	3.9	4.8	APHA 23 rd Ed.
	Diversity	1.7	3.2	
	Species	Pyrocystis fusiformis Actiniscus cubita,	Noctiluca miliaris, Bacteriastrium cosmosum, Amphora decussate	
2	Zooplankton* (200 um mesh)			
	Biomass	0.052	0.084	APHA 23 rd Ed.
	Diversity	1.90	2.1	
	Species	Globigerina bulloides Pseudosagitta maxima, Salpa fusiformis,	Pariclimanes imperator, Oncaea conifer, Miracidaefferata,	
3	Benthos*			
	Species	apolymerisedentula, Gastropods dentalium, Pisanoersted, Macoma candida	Saccostrea cucullata, Crassostrea cuttackensis, Lumbrinerinae simplex	APHA 23 rd Ed.

Remark:
NO-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.: 202403220131-132
Test Report Date: 03/04/2024

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)
26/03/2024
26/03/2024
02/04/2024
SOP/B/D-3
22/03/2024
Mr. Shridhar
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	-	7.60	7.82	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	27	27.4	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	45420	46910	IS:3025 (P-14)	-
4	Turbidity	NTU	2.8	3.2	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	30170	30490	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1900	1990	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	2.32	2.51	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.12	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	8	6	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.4	5.8	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	6	8	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	30	40	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.16	0.26	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.16	0.19	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	1.1	1.55	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	16.20	16.70	APHA 23 rd Ed.	-
23	Salinity	PPT	31.60	31.95	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	2.65	2.69	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.07	0.09	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.10	0.12	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	240	253	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.: 202403220131-132
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample	Marine Water
Sample Quantity & Packaging	1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab	25/03/2024
Test Started On	25/03/2024
Test Completed On	02/04/2024
Method of Sampling	SOP/B/D-3
Date of Sampling	22/03/2024
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	3.1	3.1	APHA 23 rd Ed.
	Diversity	2.2	2.3	
	Species	Thalassiosira subtilis, Triceratium dubium, Ornithocera cushetereporus	Eucampia cornuta, Thalassiosira fusus, Chaetoceros diversus, Skeletonema costatum	
2	Zooplankton* (200 um mesh)			
	Biomass	0.090	0.058	APHA 23 rd Ed.
	Diversity	1.8	1.90	
	Species	Sagitta bedoti, Bathynomus doederleinii, Acartia idaeeryhraea	Farranula carinata, Macrocypridinacastanea, Hyalocylis striata	
3	Benthos*			
	Species	Strombus luhuanus, Cossureccaste, Maldanids, Solen brevis, Potamilaehleri	Nassarius dorsatus, Portulaturbularia, Siliqua radiata, Laevicardium pertom	APHA 23 rd Ed.

Remark:
NO-Not Detected


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Reports of Marine Sediment



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

Test Report No.: 202403220133-136
Test Report Date: 03/04/2024

Sample Particulars

Nature of the Sample : **Marine Sediment Quality**
Sample Quantity & Packaging : 1.0 Kg, Pet Bottle (Each)
Sample Received at Lab : 26/03/2024
Test Started On : 26/03/2024
Test Completed On : 02/04/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 22/03/2024
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	0.06	0.05	0.04	0.03
2	Organic Carbon	%	22.40	34.60	20.30	29.40
3	Organic Nitrogen	%	84.20	70.30	68.40	75.20
4	Copper as Cu	mg/kg	4.90	6.20	3.80	2.05
5	Lead as Pb	mg/kg	2.28	2.90	3.05	2.60
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



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: April 2024

Prepared By



NITYA LABORATORIES

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Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12th Major Port. It Works on the model of 'Landlord' concept. KPL's policy is to manage the port in a pro-active manner to minimize any impacts from port operations or new developments. Kamaraj port handles coal for Tamil Nadu Electric Board, POL products and export of automobiles. Data generations on environmental quality constitute the basis for environmental appraisal of the project. Thus, data on environmental quality has to be periodically monitored and also to comply with the TNPCB / MOEF conditions.

With this background and need Kamaraj Port Limited has appointed M/s. Nitya Laboratories to undertake the same. KPL has awarded the work to M/s. Nitya Laboratories vide work order No. KPL/MS/HSE/EM/05/2023 dated 10.03.2023.

Accordingly, environmental quality data on Ambient Air and Effluent (Sewage) for the month of April 2024 is presented in this report.

2.0 Scope and Methodology:

The scope of work, works carried out and methodology adopted for the survey are described below:

2.1 Ambient Air Quality

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM₁₀, PM_{2.5}, SO₂, NO₂, Methane and CO were monitored.



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AMBIENT AIR QUALITY MONITORING:

Ambient air quality was monitored at different locations inside the port. The study area covers the periphery of Port and different parts of the port. A Total of 8 Ambient Air Quality Monitoring Stations covering both upwind and downwind were monitored during April 2024.

Table: Detail of Ambient Air Quality Monitoring Locations

Sr. No	Stations Code	Sampling Locations
1	AAQM-1	Security Main Gate
2	AAQM-2	Inside Port Administrative Building
3	AAQM-3	Signal Station
4	AAQM-4	Finger Jetty
5	AAQM-5	At Car Parking Yard
6	AAQM-6	At General Cargo Berth
7	AAQM-7	At Fire Station
8	AAQM-8	Guest House

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i, e, at 8 Locations. A Total of 72 Samples each of PM₁₀ & PM_{2.5}, Samples of SO₂, NO₂, Methane and CO each were monitored by using Respirable dust sampler. Fine Particulate Sampler, Methane & CO Analyzer.



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Test Reports of Ambient Air Quality Monitoring


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

2

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

Test Report Date: 04/05/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	01/04/2024	TC636624000002675F	24.78	58.20	15.30	25.50	ND
2	05/04/2024	TC636624000002753F	26.49	55.30	13.60	23.70	ND
3	08/04/2024	TC636624000002799F	19.23	53.10	15.50	30.80	ND
4	12/04/2024	TC636624000002829F	21.79	59.40	13.10	21.50	ND
5	15/04/2024	TC636624000002875F	29.05	53.80	16.40	31.20	ND
6	19/04/2024	TC636624000002966F	20.51	57.30	15.10	32.30	ND
7	22/04/2024	TC636624000002996F	19.65	58.10	16.90	23.20	ND
8	26/04/2024	TC636624000003145F	21.36	53.20	17.10	26.40	ND
9	29/04/2024	TC636624000003167F	22.22	54.20	14.10	29.30	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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Issued To M/s Kamarajar Port Trust
Vallur Post, Chennai, India

Test Report Date: 04/05/2024

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	01/04/2024	202404010110	ND
2	05/04/2024	202404050110	ND
3	08/04/2024	202404080110	ND
4	12/04/2024	202404120110	ND
5	15/04/2024	202404150110	ND
6	19/04/2024	202404190110	ND
7	22/04/2024	202404220110	ND
8	26/04/2024	202404260110	ND
9	29/04/2024	202404290110	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: 04/05/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	01/04/2024	TC636624000002676F	24.78	30.50	13.20	19.50	ND
2	05/04/2024	TC636624000002754F	23.50	35.40	15.60	27.50	ND
3	08/04/2024	TC636624000002800F	26.49	46.20	16.40	30.20	ND
4	12/04/2024	TC636624000002830F	26.92	40.10	13.80	25.30	ND
5	15/04/2024	TC636624000002876F	20.51	41.40	13.40	29.30	ND
6	19/04/2024	TC636624000002967F	20.08	47.10	16.90	26.30	ND
7	22/04/2024	TC636624000002997F	21.36	26.90	13.70	29.10	ND
8	26/04/2024	TC636624000003146F	23.93	31.80	15.10	24.90	ND
9	29/04/2024	TC636624000003168F	22.26	29.80	12.60	27.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



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

Test Report Date: 04/05/2024

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	01/04/2024	202404010111	ND
2	05/04/2024	202404050111	ND
3	08/04/2024	202404080111	ND
4	12/04/2024	202404120111	ND
5	15/04/2024	202404150111	ND
6	19/04/2024	202404190111	ND
7	22/04/2024	202404220111	ND
8	26/04/2024	202404260111	ND
9	29/04/2024	202404290111	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)
(RAVINDER MITTAL)

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

Test Report Date: 04/05/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/04/2024	TC636624000002677F	30.76	50.20	15.20	25.20	ND
2	05/04/2024	TC636624000002755F	33.76	54.40	16.30	29.40	ND
3	08/04/2024	TC636624000002801F	27.77	43.20	13.20	27.50	ND
4	12/04/2024	TC636624000002831F	32.05	47.20	17.60	20.20	ND
5	15/04/2024	TC636624000002877F	29.48	51.40	15.30	19.50	ND
6	19/04/2024	TC636624000002968F	29.91	53.90	15.90	30.20	ND
7	22/04/2024	TC636624000002998F	26.49	56.20	13.80	31.40	ND
8	26/04/2024	TC636624000003147F	30.34	55.10	16.10	28.80	ND
9	29/04/2024	TC636624000003169F	28.63	53.10	14.50	29.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(ii)] 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: 04/05/2024

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	01/04/2024	202404010112	ND
2	05/04/2024	202404050112	ND
3	08/04/2024	202404080112	ND
4	12/04/2024	202404120112	ND
5	15/04/2024	202404150112	ND
6	19/04/2024	202404190112	ND
7	22/04/2024	202404220112	ND
8	26/04/2024	202404260112	ND
9	29/04/2024	202404290112	ND
Test Method			PID Based Methane Analyser

Remark:

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


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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date: 04/05/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	01/04/2024	TC636624000002678F	27.35	46.20	15.80	25.60	ND
2	05/04/2024	TC636624000002756F	23.50	53.20	15.30	21.80	ND
3	08/04/2024	TC636624000002802F	23.93	50.20	16.10	24.30	ND
4	12/04/2024	TC636624000002832F	22.64	49.10	15.90	21.10	ND
5	15/04/2024	TC636624000002878F	20.94	55.20	18.50	22.40	ND
6	19/04/2024	TC636624000002969F	21.36	56.10	14.30	28.10	ND
7	22/04/2024	TC636624000002999F	24.78	46.20	16.10	29.10	ND
8	26/04/2024	TC636624000003148F	26.49	48.20	18.20	23.20	ND
9	29/04/2024	TC636624000003170F	22.64	44.20	16.50	27.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



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

Test Report Date: 04/05/2024

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	01/04/2024	202404010113	ND
2	05/04/2024	202404050113	ND
3	08/04/2024	202404080113	ND
4	12/04/2024	202404120113	ND
5	15/04/2024	202404150113	ND
6	19/04/2024	202404190113	ND
7	22/04/2024	202404220113	ND
8	26/04/2024	202404260113	ND
9	29/04/2024	202404290113	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(ii)] 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: 04/05/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	01/04/2024	TC636624000002679F	30.34	32.10	21.20	28.90	ND
2	05/04/2024	TC636624000002757F	32.05	38.20	23.30	25.40	ND
3	08/04/2024	TC636624000002803F	21.36	36.10	27.60	28.20	ND
4	12/04/2024	TC636624000002833F	19.65	44.50	20.30	23.40	ND
5	15/04/2024	TC636624000002879F	23.93	46.40	30.40	32.10	ND
6	19/04/2024	TC636624000002970F	32.05	47.20	25.50	27.90	ND
7	22/04/2024	TC636624000003000F	29.48	43.30	23.10	29.10	ND
8	26/04/2024	TC636624000003149F	30.34	38.20	24.80	28.10	ND
9	29/04/2024	TC636624000003171F	28.20	44.40	23.40	26.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



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

Test Report Date: 04/05/2024

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	01/04/2024	202404010114	ND
2	05/04/2024	202404050114	ND
3	08/04/2024	202404080114	ND
4	12/04/2024	202404120114	ND
5	15/04/2024	202404150114	ND
6	19/04/2024	202404190114	ND
7	22/04/2024	202404220114	ND
8	26/04/2024	202404260114	ND
9	29/04/2024	202404290114	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: 04/05/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/04/2024	TC636624000002680F	23.50	37.20	18.20	21.40	ND
2	05/04/2024	TC636624000002758F	24.78	30.40	17.40	20.70	ND
3	08/04/2024	TC636624000002804F	30.76	31.50	16.50	24.80	ND
4	12/04/2024	TC636624000002834F	26.49	24.50	17.60	32.60	ND
5	15/04/2024	TC636624000002880F	26.06	32.20	16.10	28.50	ND
6	19/04/2024	TC636624000002971F	28.63	28.80	15.60	27.30	ND
7	22/04/2024	TC636624000003001F	27.35	25.90	15.20	30.20	ND
8	26/04/2024	TC636624000003150F	27.77	32.90	19.10	22.50	ND
9	29/04/2024	TC636624000003172F	25.64	30.90	15.60	25.30	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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Issued To M/s Kamarajar Port Trust
Vallur Post, Chennai, India

Test Report Date: 04/05/2024

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	01/04/2024	202404010115	ND
2	05/04/2024	202404050115	ND
3	08/04/2024	202404080115	ND
4	12/04/2024	202404120115	ND
5	15/04/2024	202404150115	ND
6	19/04/2024	202404190115	ND
7	22/04/2024	202404220115	ND
8	26/04/2024	202404260115	ND
9	29/04/2024	202404290115	ND
Test Method			PID Based Methane Analyser

Remark:

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


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(RAVINDER MITTAL)

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

Test Report Date: 04/05/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	01/04/2024	TC636624000002681F	29.05	30.90	18.10	24.50	ND
2	05/04/2024	TC636624000002759F	28.20	29.40	19.40	22.80	ND
3	08/04/2024	TC636624000002805F	25.21	28.20	21.20	26.10	ND
4	12/04/2024	TC636624000002835F	23.07	27.80	17.80	29.70	ND
5	15/04/2024	TC636624000002881F	22.64	33.20	17.20	19.60	ND
6	19/04/2024	TC636624000002972F	22.22	30.10	23.10	20.80	ND
7	22/04/2024	TC636624000003002F	23.50	32.80	22.30	21.80	ND
8	26/04/2024	TC636624000003151F	25.64	30.40	20.30	22.40	ND
9	29/04/2024	TC636624000003173F	26.02	28.40	20.80	24.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 04/05/2024

15

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	01/04/2024	202404010116	ND
2	05/04/2024	202404050116	ND
3	08/04/2024	202404080116	ND
4	12/04/2024	202404120116	ND
5	15/04/2024	202404150116	ND
6	19/04/2024	202404190116	ND
7	22/04/2024	202404220116	ND
8	26/04/2024	202404260116	ND
9	29/04/2024	202404290116	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: 04/05/2024

16

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/04/2024	TC636624000002682F	26.06	29.20	22.30	25.60	ND
2	05/04/2024	TC636624000002760F	25.21	32.60	21.40	32.40	ND
3	08/04/2024	TC636624000002806F	28.20	34.20	22.30	33.20	ND
4	12/04/2024	TC636624000002836F	31.19	44.50	23.40	30.40	ND
5	15/04/2024	TC636624000002882F	24.78	42.60	19.70	24.30	ND
6	19/04/2024	TC636624000002973F	23.50	38.50	17.90	22.70	ND
7	22/04/2024	TC636624000003003F	26.49	45.20	18.20	23.80	ND
8	26/04/2024	TC636624000003152F	29.05	42.10	20.40	27.40	ND
9	29/04/2024	TC636624000003174F	28.63	43.20	18.40	25.40	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



TC-6366



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Vallur Post, Chennai, India

Test Report Date: 04/05/2024

17

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	01/04/2024	202404010117	ND
2	05/04/2024	202404050117	ND
3	08/04/2024	202404080117	ND
4	12/04/2024	202404120117	ND
5	15/04/2024	202404150117	ND
6	19/04/2024	202404190117	ND
7	22/04/2024	202404220117	ND
8	26/04/2024	202404260117	ND
9	29/04/2024	202404290117	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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Test Reports of Wastewater (STP)


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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

ULR No.: TC636624000003004F-3005F
Test Report Date: 04/05/2024

19

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)
Sample Received at Lab : 26/04/2024
Test Started On : 26/04/2024
Test Completed On : 03/05/2024
Method of Sampling : SOP/B/D-3
Date of Sampling : 22/04/2024
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	...	7.42	7.14	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	86	168	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	60	50	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	12	10	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	486	698	<1000	IS:1622

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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