

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

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

Faridabad, Delhi NCR, India

Tel.: +91-129-2241021

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

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



Nitya NITYA LABORATORIES

NITYA LABORATORIES 9 43, Sector-A1 Ext., Bhalla Enclave, Channi

Himmat, Jammu-180 015, J&K (UT), India +91-191-2465597

minfo@nityalab.com www.nityalab.com

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

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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling		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	01/01/2024	TC836624000000012F	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	TCB36624000000509F	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 S	Standards		60	100	80	80	2	
Test Met	hod		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	

NAAGS: National Ambient Air Quality Standards: Schedule-Vill, [Rule 3 (38)], [Part-II-exc.-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 Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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#91-129-2241021

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labsnitya@gmail.com



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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	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
est Met	hod		PID Based Methane Analyser

NAAGS: National Ambient Air Quality Standards: Schedule-VII. (Rule 3 (28)). [Panil-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 Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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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	ULR No		Co	ncentration		
	Janiphing	Janyang	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	01/01/2024	TC636624000000013F	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)

NAAQS: National Ambient Air Quality Standards. Schedule-VII. (Rule 3 (38)), [Part-II-sec.-3(5)] 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

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Vallur Post, Chennai, India

Test Report Date: 09/02/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Guest House

IS 5182 (Part 14)

Mr. Shridhar 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
	Sampling		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 Meti	nod		PID Based Methane Analyser

Remark:

NAAGS, National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (38)], [Part 8-sec.-3/1] 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 Poliution Control Board

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09/02/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Date of ULR No ampling	Concentration					
	Jamping		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	01/01/2024	TC636624000000014F	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	TC635624000000329F	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	TC636524000000890F	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 (3B)], [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 Analysed within Seven days from the date of sampling, CPCB-Central Poliution 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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

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

Remark

NAAOS: National Ambient Air Quality Standards; Schedule-VII. (Rule 3 (38)), [Part-B-sac -36]] 16.11.2009, ND-Not Detected. DL-Detection Limit, the lowest concernration, of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of eampling, CPCB-Central Poliution Control Board

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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration					
	Sampling		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	01/01/2024	TC636624000000015F	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 Met	hod		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	

NAAOS: Netsonal Ambern Air Quality Standards: Schedule-VII. (Rule 3 (38)), (Part-II-sec. -3(i)) 15.11.2009, NO-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

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Vallur Post, Chennai, India

Test Report Date:

09/02/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	20.00 COMPANION PROPERTY.	Concentration
	Sampling		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 Met	nod		PID Based Methane Analyser

Remark

NAAOS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (38)], [Part-1-exc.-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, CPCS Central Poliution Control Board.

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Vallur Post, Chennai, India

Test Report Date: 09/02/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			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	01/01/2024	TC636624000000016F	27.20	30.10	19.20	26.90	ND
2	05/01/2024	TC636624000000108F	30.10	36.20	21.30	23.40	ND
3	09/01/2024	TC636624000000215F	17.40	34.10	25.60	26.20	ND
4:	12/01/2024	TC636624000000331F	16.80	42.50	18.30	21.40	ND
5	16/01/2024	TC636624000000399F	21.50	44.40	28.40	30.10	ND
6	19/01/2024	TC638624000000513F	29.40	45.20	23.50	25.70	ND
7	22/01/2024	TC636624000000625F	26.10	41.30	21.00	27,10	ND
8	26/01/2024	TC636624000000771F	27.90	35.20	22.80	26.10	ND
9	29/01/2024	TC636624000000892F	25.80	34.60	23.10	27.80	ND
NAAQM S	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:

NAAOS: National Ambient Air Quality Standards: Schedule-VII, (Rule 3 (189), (Part II-sec. -3(4) 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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JR +91-129-2241021

H +91-9013591021, +91-9013552273

labsnitya@gmail.com



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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
	Camping		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 Meti	nod		PID Based Methane Analyser

NAAOS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (38)], [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 Analysed within Seven days from the date of sampling. CPCB-Central Poliution 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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
	Junipung		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	01/01/2024	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 S	Standards	A1	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)	

NAADS: National Ambient Air Quality Standards: Schedule-VII, (Rule 3 (38)), [Part-II-eec. -3(i)] 16 11 2009; ND-Not Desected, 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



(RAVINDER MITTAL)

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Issued To

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Vallur Post, Chennai, India

Test Report Date: 09/02/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

ir. No.	Date of Sampling	Test Report No.	Concentration
	camping		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
est Met	hod		PID Based Methane Analyser

NAAOS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-B-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 Poliution 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

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	ULR No	Concentration					
	Sampang		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	01/01/2024	TC636624000000018F	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	TC636524000000333F	20.10	25.80	15,80	27.70	ND	
5	16/01/2024	TC636624000000401F	19.40	31.20	15.20	17.60	ND	
6	19/01/2024	TC636524000000515F	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)		

NAAOS, National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (38)), [Part-II-sec.-30]) 16.11.2009, ND-Not Detected, BL-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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out of this organization. Gamplez will be destroyed after 50 days from the date of issue of last centificate usessa obsessas opicidad. Any complicata about this report should be commissioned in writing within 7 days of fease of this report. State tablety of Migra Laboratories is similar this improvement of the complication of the complicatio

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

Issued To M/s Kamarajar Port Trust

Wallur Post, Chennai, India

Test Report Date: 09/02/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	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
est Meth	od		PID Based Methane Analyser

Remark

NAAGS: National Ambient Air Guality Standards, Schedule-VII, [Rule 3 (38)), [Part-filesc. 3(i)] 16.11.2009, ND Not Detected. OL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions. Semple 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 Purpose of Monitoring

Sampling Location Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration					
	Jampang		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.	01/01/2024	TC636624000000019F	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:

NAACS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (30)], [Part-8-esc-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 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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
19	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	26/01/2024	202401260117	ND
9	29/01/2024	202401290117	ND
est Meti	nod		PID Based Methane Analyser

NAAGE: National Ambient Air Quality Standards; Schedule-WI, (Rule 3 (38)), [Part-6-sec. 3(i)] 16.11.2009, ND-Not Detected. DL-Detection Limit. the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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Test Reports of Wastewater (STP)



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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

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

Wastewater (STP)

1.0 Liter, Pet Bottle (Each)

03/02/2024

03/02/2024

08/02/2024

SOP/B/D-3

GOL LEVEL-O

29/01/2024

Mr. Shridhar

W-1: STP O/L of Admin Building

W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Res	sult	Permissible	Protocol
			W-1	W-2	Limits	
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	788	<1000	IS:1622



(AUTHORISED SIGNATORY)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The terms alony anneals the responsibility for contact of tapon. The meants contained in the requirement of the terms of the support of

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F +91-129-2241021

+91-9013591021, +91-9013552273

■ labsnitya@gmail.com



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

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

Faridabad, Delhi NCR, India

Tel.: +91-129-2241021

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

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

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

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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C +91-191-2465597

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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

Stations Code	Sampling Locations	
AAQM-1	Security Main Gate	
AAQM-2	Inside Port Administrative Building	
AAQM-3	Signal Station	
AAQM-4	Finger Jetty	
AAQM-5	At Car Parking Yard	
AAQM-6	At General Cargo Berth	
AAQM-7	At Fire Station	
AAQM-8	Guest House	
	AAQM-1 AAQM-3 AAQM-4 AAQM-5 AAQM-6 AAQM-7	AAQM-1 Security Main Gate AAQM-2 Inside Port Administrative Building AAQM-3 Signal Station AAQM-4 Finger Jetty AAQM-5 At Car Parking Yard AAQM-6 At General Cargo Berth AAQM-7 At Fire Station

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 &PM₂₅, 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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 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	7777777	Concentration					
	vaniping		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	02/02/2024	TC636624000001065F	19.20	50.40	10.90	18.50	ND	
2	05/02/2024	TC636624000001155F	21.60	49.20	12.40	17.60	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	16/02/2024	TC636624000001509F	22.90	48.60	10.40	23,10	ND	
6	19/02/2024	TC636524000001544F	16.00	51.20	14.10	24.60	ND	
7	23/02/2024	TC636824000001678F	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. [Pule 3 (38)]. [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 Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board.



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四 +91-129-2241021

M +91-9013591021, +91-9013552273

labsnitya@gmail.com



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

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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	02/02/2024	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 Met	hod		PID Based Methane Analyser
			2000 - 20

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII. (Rule 3 (38)), [Partif-sec.-3(ii)] 15 11 2009, ND-Not Detected. DL-Detection Limit, the lowest consumation, of a substance that can be eccurately 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

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	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	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)		

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



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

Vallur Post, Chennai, India

Test Report Date:

Sample Particulars

Nature of the Sample

Purpose of Manitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

05/03/2024

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		
	. = 3xxxe		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	NO		
7	23/02/2024	202402230111	ND		
8	26/02/2024	202402260111	ND.		
Test Method			PID Based Methane Analyser		

Remark:

NAAGS: National Architect Air Guality Standards; Schedule-VII. (Rule 3 (3R)), (Part-II-sec.-3(i)) 15.11.2009, NO-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, GPCB-Central Poliution Control Board.

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H +91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com



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M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/03/2024

Sample Particulars

Issued To

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	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	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	TC636624000001546F	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	TC836624000001736F	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)		

NAAGS: National Ambient Air Guality Standards; Schedule-VII, [Rule 3 (39]], [Part-II-sec.-3(()] 16.11.2509; ND-Not Detacled, 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, CPCS-Central Poliution Control Board



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图 +91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com



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

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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration		
			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:

NAAOS: National Ambient Air Quality Standards; Schedule-VII. [Rule 3 (38)], [Part Heec. 3(1)] 16.11.2009, ND-Net Detected. DL-Detection Limit the lowest concentration, of a substance that can be accurately measured under specified expentrents conditions. Semple Analysed within Seven days from the date of sampling, CPCB-Cere'al Poliution Control Board

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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date:

05/03/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	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	02/02/2024	TC636624000001068F	21.60	40.60	12.00	19.60	ND	
2	05/02/2024	TC636624000001158F	19.10	46.10	11.20	16.80	ND	
3	09/02/2024	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

NAACS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (36)]. [Part-Heec -3()] 16.11.2000, ND-Not Detected, OL-Dataction Limit, the lowest consentration, 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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D +91-129-2241021

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m labsnitya@gmail.com



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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			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		THE RESERVE OF THE PERSON OF T	PID Based Methane Analyser

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NAAGS, highpas Ambient Air Quality Sembarda: Schedule-VR, [Rule 3 (38)), [Part-II-sec.-3(ii) 16.11.2009, ND-Hot Detected, DL Cetection 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, GPCB Central Pollution Control Board

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M/s Kamarajar Port Trust

Vallur Post, Chennai, India

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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
	Sampling		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	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	TD836624000001307F	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)	

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Pert-II-sec.-0()] 16.11.2009; NO-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 Policion 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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
	2000		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 Met	Test Method		PID Based Methane Analyser

NAADS: National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (3R)]. [Pari-Hopc: 3(6)] 16.11.2009, ND Not Detected. DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental coeditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date:

05/03/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	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	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	20.80	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)			

NAACS: National Antition Air Quality Standards; Schedule-VII. [Rule 3 (38)]. [Part-I-sec.-3(i) 16 11 2009, NO-Not Detected. DL-Distaction 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, CPCS-Central Poliusion Control Board.



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

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

05/03/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
	10000		Methane (%)
1	02/02/2024	202402020115	ND
2	05/02/2024	202402050115	NO
3	09/02/2024	202402090115	NO
4	12/02/2024	202402120115	NO
5	16/02/2024	202402160115	ND .
6	19/02/2024	202402190115	ND
7	23/02/2024	202402230115	ND
8	26/02/2024	202402260115	ND .
rest Met	nod		PID Based Methane Analyser

Ramark

NAAGS: National Ambiest Air Quality Standards; Schedule-VII, (Rule 3 (386), (Part II-sec. 3(6) 96,11,2009, ND-Not Detected, DL-Detection Umit, 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, CPCS-Central Poliution Control Social

AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Issued To

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Vallur Post, Chennai, India

Test Report Date:

05/03/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Poliution Load

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
	vapg		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	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
В	26/02/2024	TC636624000001740F	23.00	25.10	20.60	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)	

NAAGS: National Ambient Air Quality Standards: Schedule-Vil. [Rule 3 (38)]. [Part-II-sec.-3(i)] 15.112009, 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

Purpose of Manitoring

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
	10.00	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 Met	nod		PID Based Methane Analyser

Harmark:

KAAGS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (380), [Part-II-sec.-3(6)] 16.11.2000, 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-Cantel Poliution Control Board.

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

Test Report Date:

05/03/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			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
্ৰ	02/02/2024	TC636624000001072F	21.80	25.10	17.50	20.70	ND
2	05/02/2024	TC836624000001162F	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)	

NAAQS: National Ambient Air Quality Standards, Schedule-Vill. [Rule 3 [28]]. [Part-II-sec. 3())] 16.11.2009, ND-Not Detected. DL-Detection Limit, the towest 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 Poliution Control Board.



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F +91-129-2241021

+91-9013591021, +91-9013552273

m labsnitya@gmail.com

@ www.nityalab.com



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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

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

NAAGS: National Amount Air Quality Standards: Schedule-VII. (Fore 3 (38)). (Part-II-sec -3())] 16 11,2009, NO-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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(RAVINDER MITTAL)

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M +91-9013591021, +91-9013552273

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www.nityalab.com



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Issued To Mis Kamarajar Port Trust

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. Shridhan

Sample Description

W-1: STP O'L of Admin Building

W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Re	sult	Permissible	Protocol
			W-1	W-2	Limits	
1	рН		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



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(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: March 2024

Prepared By



NITYA LABORATORIES

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

Faridabad, Delhi NCR, India

Tel.: +91-129-2241021

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

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

Laboratories I Faridabad (Haryana) I Jammu (J&K) I Mangalore (Karnataka) I



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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:

09/07/2023

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

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	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	TC836624000002039F	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	TC636624000002576F	26.49	51.20	14.40	26.30	ND
NAAQM Standards		60	100	80	80	2	
Test Method		48CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	

Romarko

NAAQS: National Architect Air Quality Standards, Schoolus-VII, (Ruis 1; (SS)), (Pisrt-t-e DL-Cletection Limit, the lowest concentration of a substance that can be accurately at 16.11.2009, ND-Not Detected specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Centrel

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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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

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	No. Date of Test Report No Sampling		Concentration
	33707E307E		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
В	25/03/2024	202403250110	ND
9	28/03/2024	202403280110	
est Meth	od		PID Based Methane Analyser

Remark:

NAAGS: National Antown Ar Quality Standards: Schedule-Vrl. (Rule 8 (381), [Part-H-eec-2/()) 16.11.2009, NO-Not Defected, 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 case of sampling, CPCB-Central Policion Control Street.

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NOTE: The SECTION OF COURSE OF PROMERTING NO OFFICE OF MANY OF THE MANY OF MANY OF THE MAN

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Test Report Date:

08/08/2023

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	ULR No		Co	ncentration		
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3	
1	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	TC836624000002253F	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	TC636624000002468F	26.49	39.20	18.10	30.40	ND
9	28/03/2024	TC636624000002577F	28.20	38.20	16.20	28 20	ND
NAAQM S	Standards		60	100	80	80	2
Test Meth	od		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Samurk

NAAQS: National Artisert Air Quality Standards, Schedule-Vit, (Ruie 3 (381), (Part-8-sec -3(4) 16, 11,2006, ND-Not Datected, DL Datecton Limit, the lowest concentration of a substance that can be according assignment under specified experimental contributes Sample Analysed within Seven days from the date of sampling, CPCB-Certon (1997), 2007, 2

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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
	-53/68/A/656		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	16.23
est Meth	iod		PID Based Methane Analyser

Romark:

NAAQS: National Articlent Air Quality Standards; Schedule-VII, (Aule 3 (38)), (Part-II-sec-3(ii) 16.11.2009; NC-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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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) pg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	01/03/2024	TC838624000001921F	31.62	50.40	16.60	26.10	ND
2	04/03/2024	TC836624000001949F	33.76	55.20	17.40	30.50	ND
3	08/03/2024	TC636624000002041F	26.49	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	TC636824000002459F	33.76	41.70	11.50	33.50	ND
9	28/03/2024	TC636624000002578F	25.50	46.30	12.20	32.90	ND
NAAQM S	Standards		60	100	80	80	2
Test Meth	od		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

MAAGS, National Artiblent Air Quality Standards, Schedule-Vill, (Rule 3 (30)), [Part-ti-sec.-3)]] 16.11.2009, ND-Not Designed 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 Poliution Control Board.



(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
	33338338		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	~~~
est Meth	nod		PID Based Methane Analyser

Romark:

NAAGE: National Ambient Air Quality Standards: Schedule-VII, (Rue 3 (38))] (Part II-sec.-3(1)) 16.11.0009; ND-Not Detected. DL-Detection Limit, the towest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCS-Central Poliution Control Board.

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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	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	TC836624000002470F	26.48	52.20	12.10	26.30	ND
9	28/03/2024	TC636624000002579F	25.80	59.70	19.20	25.50	ND
NAAQM S	Standards		60	100	80	80	2
Test Meth	nod		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (38)], [Flat-Field: 35]] 16 11 2009, NO-Not Detected. DL Detection Limit, the lowest concentration, of a substance that can be accurately measured a Sample Analysed within Seven days from the date of sampling, CPCB Central Po

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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			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	74 PATT
est Meth	nod		PID Based Methane Analyser

Remark

NAAGS: National Ambient Air Quality Standards: Scheduse-VI. [Russ 3 (38)], Part-H-sec-3()) 16.11-2009, ND-Not Detected. DL-Defection Limit, the lowest optioentration, of a substance trial can be accurately insessured under apecrise experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCS-Central Pollution Control Board.

(AUTHORISED SIGNATORY)

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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

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	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	TC636624000002256F	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 S	Standards		60	100	80	80	2
Test Meth	od		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAGS, National Antigent Air Quality Standards: Schedule-Vill, (Rule 3 (38)), (RWH II-sec. 3(6)) 18.11.2009, ND-Not Detected, OL-Celebration Limit, the towest 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 Solard.



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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
	-34/06/098		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	
est Meth	nod		PID Based Methane Analyser

Romark:

NAACS: National Antisent Ar Quality Standards; Schedule-VII. (Rule 3 GBI). [Part-timed: 3()] 16.11.2000, ND-Not Detected. DL Detection Cent; the forest concentration of a substance that can be accurately measured under specified expertmental conditions. Sample Analysed within Seven days from the date of sampling, GPCB-Central Polysion Control Board.

(AUTHORISED SIGNATORY)

NOTE: The internative concept for expenditure to internal of inquire. The representation that in the same in the same internal manual mode in proposed except in the same internal manual mode in proposed except in the same internal manual ma

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Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Gor	ncentration		
			Particulate Matter (PM2.5) pg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
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	TC638624000002382F	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)	

NAAGS: National Ambient Air Quality Standards: Schedule-VII. [Rule 3 (38)], (Part-H-sec-3()) 16:11:3009; ND-Not Detected. OL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental concilions. Sample Analysed within Seven days from the date of eartpling, CPC8-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:

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

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

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	
est Meth	nod		PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quarty Standards: Schedule-VII. (Rute J. (20)). [Part-Head. 3())] 16.11.2009, ND-Not Detected, DL-Detector Limit, the lowest concentration of a substance that can be accurately resource under specified expertmental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Poliusion Control Board.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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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

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	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	T0636624000002258F	24.35	32.60	17.80	25.90	ND
7	22/03/2024	TC836624000002383F	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 S	Standards		60	100	80	80	2
Test Meth	ood		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Andrews Air Quality Standards, Schedule-Vill, (Rule 3 (28)), (Plant II-eec -3(1)) 18,11,2009, ND-Not Detected, DL Oelection Limit, the lowest concentration of a substance that can be accountery measured under specified experimental conditions. Bample Analysed within Seven days from the date of earnpling. CPCB-Central Polyston Control Board.



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

Vallur Post, Chennal, Indi

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.) Ambient Air Quality Monitoring

06/06/2023

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No. Date of Sampling	Date of Sampling	Test Report No	Concentration
	Sungang.		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	
est Meth	nod		PID Based Methane Analyser

Hernork:

NAAGS National Amount Air Quality Standards, Schoolsk-VII, (Rule 3 (38)), (Part-II-sec -3(ii) 16.11.) DDS, ND-Not Detected, DJ. - Celection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Benglie Analysed within Seven days from the date of sampling, CPCD-Central Poliution Control Board.

(AUTHORISED MI (AUTHORISED SIGNATORY)

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issued To

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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

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration						
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3		
1	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	TC536824000002207F	24.48	41.80	13.50	23.50	ND		
6	18/03/2024	TC836624000002259F	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	TC836624000002474F	26.92	45.20	15.90	24.90	ND		
9	28/03/2024	TC636624000002583F	26.48	44.30	15.70	25.30	ND		
NAAQM S	Standards		60	100	80	80	2		
Test Meth	ood		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)		

Remark:

NAAGS: National Ambient Air Quality Standards; Schedule-VII, [Rue 3 (200); [Part-Heac-30]] 16 11 2008; NC-Not Detected.

OI.-Detection Limit. The lowest concentration of a substance that can be eccurately measured under specified experimental conditions.

Sample Analysed within Seven days born the date of sampling, CPCS Cantral Poliution 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:

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

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
	SCHOOL SECTION		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	100PT 100
est Meth	od		PID Based Methane Analyser

NAADS: Natural Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-II-sect-3(ii) 15.11.2000; ND-Not Detected, Dt. Cetaction Limit, this lowest concentration, of a substance that can be accurately measured under specified expensional conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Poliution Control Board.

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(RAVINDER MITTAL)

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Test Reports of Wastewater (STP)



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Issued To

M/s Kamarajar Port Trust

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	Re	sult	Permissible Limits	Protocol
			W-1	W-2		
1	рН	***	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



(AUTHONISED 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, Sterifized 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		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	us/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 Ed
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL-0.01]	ND [DL- 0.01]	APHA 23 ^{rt} Ed
19	Cadmium as Cd	mg/l	ND	ND	ND	APHA 23™Ed
20	Faecal Coliform*	MPN/100ml	281	515	345	IS:1622

Herney.

DL-Detection Line

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 .:

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 26/03/2024

Test Started On 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		Protocol		
			SW-1	SW-2	SW-3	
1	Petroleum Hydrocarbons	mg/t	ND (DL-0.01)	ND (DL-0.01)	ND (DL-0.01)	APHA 23 ^{rt} Ed
2	Chiarophyli A	mg/l	1.02	0.790	0.610	APHA 23 ^{rt} Ed.
3	Phaeophytin	mg/m ³	17.40	17.80	17.60	APHA 23 ^H 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 Phosphale as P	mg/l	0.30	0.50	0.41	IS:3025 (P-31

Remark DL-Detection Limit

(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 Sample Quantity & Packaging Sample Received at Lab Test Started On Test Completed 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		Protocol						
		SW-1	SW-2	SW-3					
1	Phytoplankton* (64 um mesh)								
	Biomass	1.65	1.7	3.2	APHA 23 rd Ed.				
	Diversity	2.5	2.1	2.7	NL/SOP/MB/PHP/3				
	Species	Actinastrumaciculase, 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	Cerodaphniacomuta, Synecho cystisminuscula	,Tropocyclops pracinus, Cyclops vancans, Paracala nusparvus;	APHA 23 rd Ed.				
3	Benthos*								
	Species	Corbicula assamensis Cyphon larva,	Aeshna juncea. Psephenoidinae gyrinidae	Anadara granosa Musca domestica, Cymadusa pathyl	APHA 23 rd Ed.				

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

NOTE: The processor is an extraction of the submitted for the processor of the processor of

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Test Reports of Marine Water

(AUTHORISED SIGNATORY)

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03/04/2024

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Issued To M/s Kamarajar Port Trust

Test Report No.: Vallur Post, Chennai, India Test Report Date:

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. Sterläzed Pet Bottle (Each)

26/03/2024 26/03/2024 02/04/2024 SOP/B/D-3 22/03/2024 Mr. Shridhar

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

Analysis Report

Sr.	Parameters	Unit	Test	Results	Protocol	SW-Class-IV	
No.		5.500.10	MW-1	MW-2		Harbour Standards	
1	pH	-	8.02	8.28	IS:3025 (P-11)	6.0-9.0	
2	Temperature	°C	26.8	27	IS:3025 (P-9)		
3	Electrical Conductivity	µs/cm	48560	49820	IS:3025 (P-14)		
4	Turbidity	NTU	2.3	1.5	APHA 23rd 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	18:3025 (P-44)	5.0	
12	Chemical Oxygen Demand	mg/l	50	60	IS:3025 (P-58)	-	
13	Copper as Cu	mg/i	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 23rd Ed.		
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	- 4	
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 23rd 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	Chiprophyll A	mg/l	1.1	1.3	APHA 23 rd Ed.	-	
22	Phaeophytin	mg/m³	16.20	15.80	APHA 23 rd Ed.		
23	Salinity	PPT	33.20	31.60	EC Meter	1.4	
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 (B-31)	10	
28	Faecal Coliform*	MPN/100 ml	187	253	IS 1622	500/100 ml	

ND-Not Detect

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED BIGNATORY)

(RAYINDER MITTAL)

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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

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

MW1: Near GCB (Surface)

MW2: Near GCB (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test	Results	Protocol	
		SW-1	SW-2		
1	Phytoplankton* (64	um mesh)			
	Biomass	2.9	3.4	APHA 23 rd Ed	
	Diversity	2.1	2.4		
	Species	Farranula carinata, Peridinum elegans, Rhabdonema magnificum	Diploneissmithii,Naviculla sigma, Guinardia delicatula		
2	Zooplankton* (200 um mesh)				
	Biomass	0.036	0.053	APHA 23rd Ed.	
	Diversity	3.4	3.9		
	Species	Eucalanus calocalanuspova, Euchaeta marina, Metacalanusaurivitii	Farranula carinata, Eutintinnus tenue, Oithona nana		
3	Benthos*				
	Species	Oikopleura dioica, Ancilla ampla, Syllisferrugina, Cirratutu sdasylophius	Tapes belcheri, Magelonacincta,	APHA 23 rd Ed	

(AUTHORISED SIGNATORY)

(RHYTHM BASSON')

(AUTHORISED SIGNATORY)

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2.7

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Vallur Post, Chennai, India

Test Report No.:

202403220123-124

Test Report Date 03/04/2024

Sample Particulars

Sample Description

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

1.0 Liter, Sterilized Pet Bottle (Each)

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.	Parameters	Unit	Unit Test Results		Protocol	SW-Class-IV
No.				MW-3	MW-4	
1	pH	18	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" Ed.	
5	Total Dissolved Solids	mg/l	27270	27820	IS:3025 (P-16)	
6	Sulphate as SO ₄	mg/i	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.	1940
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	Chlcrophyll 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)	197
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 Cotform*	MPN/100 ml	278	221	IS:1622	800/100 ml

Remark: ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The secondary for responsibly for other or approximation process. The requirement of the contract of a position of the contract of the c

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Vallur 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, Sterlized Pet Bottle (Each)

28/03/2024 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	Test	Results	Protocol
		SW-3	SW-4	
1	Phytoplankton* (64	um mesh)		
	Biomass	4.1	3.2	APHA 23™ Ed.
	Diversity	3.1	2.0	
	Species	Thalassionemanitzs chioides, Ditylum brightwelli, Triceratium dublum	Coscinoddiscus radiates. Guinardia delicatula	
2	Zooplankton* (200 u	ım mesh)		
	Biomass	0.018	0.038	APHA 23 rd Ed.
	Diversity	1.4	2.8	
	Species	Calocalanus pavo, Metacylisjor genseni, Tortanus barbatus	Penilia avirostris Eutintinnus tenue, Cresis acicula, Undinuta vulgaris	
3	Benthos*		100-0002	
	Species	Agaronia nebulosa, Dodecacenacapensis Armandi a intermedia	Sinumneritoi derum, Pinna bicolour, Mactramera, Pulliellaarmata,	APHA 23 rd Ed.

(AUTHORISED SIGNATORY)

(RHYTHM BASSON")

AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.:

202403220125-126

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

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

Analysis Report

Sr.	Parameters	Unit	Test	Results	Protocol	SW-Class-IV	
No.		150000	MVV-5	MW-6	A CONTRACTOR CONTRACTOR	Harbour Standards	
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 23rd Ed.		
5	Total Dissolved Solids	mg/l	29140	29620	IS:3025 (P-16)		
6	Sulphate as SO ₁	mg/I	1860	2940	APHA 23rd Ed.		
7	Nitrates as NO ₃	mg/l	4.02	4.40	15:3025 (P-34)		
8	Total Ammonia	mg/l	ND	ND	15.3025 (P-34)	- 3	
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	- 6	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™ 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 23rd Ed.		
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL-0.01]	APHA 23 rd Ed.		
19	Cadmium as Cd	mg/l	ND:	ND.	APHA 23 rd Ed.	-	
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-	
21	Chiorophyll A	mg/l	1.26	1.60	APHA 23rd Ed.		
22	Phaeophytin	mg/m ³	15.80	16.70	APHA 23 ^{rl} Ed.		
23	Salinity	PPT	30.20	30.70	EC Meter	. +	
24	Nitrite as NO ₂	mg/I	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)		
25	Total Nitrogen as N	mg/l	4.42	4.80	(S: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	18:1622		

(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

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

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

Analysis Report

Sr. No.	Parameters	Test	t 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, Ceratim furca, Dino physisovum	Peridinium claudicans, Peridinium gracile, Fragilariopsis oceanic		
2	Zooplankton* (200 um mesh)				
	Biomass	0.081	0.064	APHA 23 ^{rt} Ed	
	Diversity	2.5	1.8		
	Species	Lahidororparuta Congrasidae	, Hyalocylix striata, Oncaeidae mediterranea, Aglaurahe mistoma		
3	Benthos*	THE WAY			
	Species	Macomabirmanic, Standellani cobarica, Roetapeliculla, Jasmineira elegans,	Conus canonicus, Melinna cristate, Pugilina coachlidium, , Anadaragranosa, Prionos piocirrifera	APHA 23 rd Ed.	

Romanik ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON")

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(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.	Parameters	Unit	Test	Results	Protocol	SW-Class-IV Harbour Standards
No.		7.7.7.1.0	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" 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)	0.1
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/i	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.	0.40
15	Zinc as Zn	mg/l	0.09	0.13	APHA 23 [™] Ed.	
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23" 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™ Ed.	
19	Cadmium as Cd	mg/l	ND	ND	APHA 23" Ed.	
20.	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23rd Ed.	
21	Chlorophyll A	mg/l	1.8	2.1	APHA 23 rd Ed.	3.45
22	Phaeophytin	mg/m³	16.90	17.00	APHA 23 rd Ed.	
23	Salinity	PPT	34.60	34.90	EC Meter	1345
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)	5.00
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	6D0/100 mi

(AUTHORISED S GNATORY)

(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	t Results	Protocol
		SW-7	SW-8	
1	Phytoplankton* (64	um mesh)		
	Biomass	7.6	5.3	APHA 23" Ed.
	Diversity	2.4	1.9	
	Species	Talassiosira pseudonana Bacteriastrum cosmosum, Skeletonema costatum	Bacteriastrum rhombus, Farranula carinata, Lauderiaan nulata	
2	Zooplankton* (200 um mesh)			
	Biomass	0.058	0.088	APHA 23 rd Ed
	Diversity	2.7	3.2	
	Species	Eucalanus . ,Copilia quadrata, ,Dosinia trigona	Subeucalanuscrassus, A.Longicomis Farranula carinata	
3	Benthos*			
	Species	Paphiasemirugata, isopods, Pitaralbastrum, Pugilina cochlidium	Cossura coasta, , Quadrivisioboneri, Circe scripta, , Anadara granosa, Laternula anatine	APHA 23 rd Ed

(AUTHORISED SIGNATORY)

(RHYTHM BASSON")

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report No .: Test Report Date: 202403220129-130 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.	Parameters	Unit	Test	Results	Protocol	SW-Class-IV
No.		130000	MW-9	MW-10	A CHARLEST AND A	Harbour Standards
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)	0.0
4	Turbidity	NTU	2.7	2.9	APHA 23 rd Ed.	9
5	Total Dissolved Solids	mg/l	26400	28650	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)	12
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™ Ed.	- 04
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND (DL-0.001)	APHA 23 ^N 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.	36
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 23rd Ed.	-
22	Phaeophytin	mg/m ³	17.20	17.50	APHA 23rd Ed	
23	Salinity	PPT	28.30	28.90	EC Meter	:2:
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	2 /500400 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 ...

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	Tes	Test Results		
		SW-9	SW-10		
1	Phytoplankton* (64	um mesh)			
	Biomass	3.9	4.8	APHA 23° Ed	
	Diversity	1.7	3.2		
	Species	Pyrocystis fusiformis Actiniscuscur cubita,	Noctiluca miliaris, Bacteriastrum cosmosum, Amphora decussate		
2	Zooplankton* (200 um mesh)				
	Biomass	0.052	0.084	APHA 23™ Ed	
	Diversity	1.90	2.1		
	Species	Globigerina bulloides Pseudosagitta maxima, Salpa fusiformis,	Periclimenes imperator, Oncaea conifer, Miraciaefferata,		
3	Benthos*	h 20,0000000			
	Species	apolymetisedentula, Gastropods dentalium, Pisionoerstedi, Macoma candida	Saccostrea cucullata, Crassostrea cuttackensis.Lumbrinerinae simplex	APHA 23 rd Ed.	

Remark

NO-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SISNATORY)

(RAVINDER MITTAL)

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图 +91-129-2241021

#91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



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NITYA LABORATORIES

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

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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.	Parameters	Unit	Test	Results	Protocol	SW-Class-IV	
No.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MW-11	MW-12	a cosocoent	Harbour Standards	
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	46420	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 _e	mg/l	1900	1990	APHA 231° Ed.	1/4	
7	Nitrates as NO ₃	mg/l	2.32	2.51	IS:3025 (P-34)	- 14	
8	Total Ammonia	mg/l	0.12	ND.	IS:3025 (P-34)		
9	Total Suspended Solids	mg/l	8	6	IS:3025 (P-17)	1.2	
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)	2.2	
13	Copper as Cu	mg/l	ND	ND .	APHA 23 rd Ed.	7.6	
14	Iron (as Fe)	mg/l	0.16	0.26	APHA 23 ^{rt} Ed.	- 3	
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 ^{rt} Ed.	- 58	
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.	12	
22	Phaeophytin	mg/m ³	16.20	16.70	APHA 23rd Ed		
23	Salinity	PPT	31.60	31.95	EC Meter	120	
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-34%)	000.	
28	Faecal Coliform*	MPN/100 ml	240	253	IS 1622	5000100 ml	

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

or feeding fleet report, phose send on oracl of info@nitration.com and rull at 401-101-240600°, 401-0011004010

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C+91-191-2465597

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Issued To M/s Kamarajar Port Trust

Test Report No.:

202403220131-132

Vallur Post, Chennai, India

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	Test	t Results	Protocol	
		SW-11	SW-12		
1	Phytoplankton* (64 i	ım mesh)			
	Biomass	3.1	3.1	APHA 23 rd Ed	
	Diversity	2.2	2.3		
	Species	Thalassiosira subtilis, Triceratium dublum, Omithocar cusheteroporus	Eucampia comuta, Thalassiosira favus, Chaetoceros diversus, Skeletonema costatum		
2	Zooplankton* (200 um mesh)				
	Biomass	0.090	0.058	APHA 23" Ed	
	Diversity	1.8	1.90		
	Species	Sagitta bedoti, Bathynomusdoederleinii, Acarti idaeeryhraea	Farranula carinata, Macrocypridinacastanea, Hyalocylix striata		
3.	Benthos*				
	Species	Strombus luhuanus, Cossurecoaste, Maldanids, Solen brevis, Potamilaehleri	Nassarius dorsatus, Portulatubularis, Siliqua radiate, Laevicardiuma pertom	APHA 23 ¹⁷ 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	rameters Unit		Test Results				
			\$1	S2	53	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	88.40	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	NO	ND		
8	Arsenic	mg/kg	ND	ND	ND	ND		

ND-Not Detected

(AUTHORISED SIGNATORY)

ANTHORISED

(RAVINDER MITTAL)

CORPORATE OFFICE & CENTRAL LABORATORIES :-



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

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

Faridabad, Delhi NCR, India

Tel.: +91-129-2241021

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

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



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- 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India
- +91-191-2465597
- info@nityalab.com 🛭 www.nityalab.com

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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(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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of	ULR No		Co	ncentration		
	Sampling		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	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 Pollu



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(RAVINDER MITTAL)

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+91-129-2241021

1 +91-9013591021, +91-9013552273

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	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 Met	nod		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

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Vallur Post, Chennai, India

Test Report Date: 04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Guest House

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
	150 350		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 S	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 Polli



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NITYA LABORATORIES

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

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5

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date: 04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.) Ambient Air Quality Monitoring

To Check the Pollution Load

Guest House

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
	Camping		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
est Met	nod		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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NITYA LABORATORIES

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

+91-191-2465597

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.) **Ambient Air Quality Monitoring**

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			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	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 S	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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			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
est Meth	nod		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: 04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No		Co	ncentration		
			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	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 S	Standards		60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions,

Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollu



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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.) Ambient Air Quality Monitoring

To Check the Pollution Load

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			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 Meth	nod		PID Based Methane Analyser

Remark:

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Vallur Post, Chennai, India

Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration					
	Sampling		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:

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9 +91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



NITYA LABORATORIES

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

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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

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Finger Jetty

IS 5182 (Part 14)

Mr. Shridhar 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			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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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

04/05/2024

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

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	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	4/2024 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 26/04/2024 TC636624000003150F	TC636624000003001F	27.35	25.90 32.90	15.20 19.10	30.20 22.50	ND ND			
8		TC636624000003150F 27.77	27.77							
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 Contra



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[13]

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

General Cargo Berth

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
	, camping		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
est Meth	nod		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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Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	0211110	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	19/04/2024 TC636624000002972F 22/04/2024 TC636624000003002F	22.22	30.10	23.10	20.80	ND			
7	22/04/2024		23.50	32.80 30.40	22.30	21.80	ND ND			
8	26/04/2024	TC636624000003151F	25.64							
9	29/04/2024	TC636624000003173F	26.02	28.40	20.80	24.10	ND			
NAAQM S	Standards		60	100	80	80	2			
Test Meth	od	=	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)			

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



(AUTHORISED SIGNATORY)

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(RAVINDER MITTAL)

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

Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	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
est Meth	est Method		W27.
nark:			PID Based Methane Analyser

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

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Vallur Post, Chennai, India

Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar 24 Hrs

Analysis Report

Sr. No.	Date of Sampling	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	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	503100		
8	26/04/2024 TC636624000003152E	TC636624000003152F	29.05	42.10	20.40		ND		
9	29/04/2024	TC636624000003174F		(3703.7)		27.40	ND		
NAAOMS		. 333302400003174F	28.63	43.20	18.40	25.40	ND		
NAAQM Standards		60	100	80	80	2			
Test Meth	od		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



TC-6366

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Vallur Post, Chennai, India

Test Report Date:

04/05/2024

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Fire Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			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
est Meth	est Method		PID Based Methane Analyser

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

> RISED SIGNATORY) (RAVINDER MITTAL)

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Test Reports of Wastewater (STP)

(RAVINDER MITTAL)

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Issued To

M/s Kamarajar Port Trust

Vallur Post, Chennai, India

ULR No :

TC636624000003004F-3005F

Test Report Date:

04/05/2024

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	Re	sult	Permissible	Protocol
			W-1	W-2	Limits	
1	рН		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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