

**Sampling and Testing of various Environmental Parameters inside
Kamarajar Port**



Test Report

Feb' 2023

HECS
Hubert Enviro Care Systems (P) Ltd

(An ISO 9001: 2015 Company) (Accredited by NABL, Recognized by MoEF)
#18,92nd Street, Ashok Nagar, Chennai – 600 083.

Phone: (044)-4363 5555
Email – labreports@hecs.in

1.0 Introduction

Kamarajar port is the first Corporatized Port in India and the 12th Major Port. It works on the model of 'land Lord" concept. KPL's policy is to manage the port in a pro-active manner to minimize any impacts from port operations or new developments. Kamarajar port handles coal for Tamil Nadu Electricity Board, POL products and export of automobiles. Data generation on environmental quality constitutes the basis for environmental appraisal of the project. Thus data on environmental quality has to be periodically monitored and also to complies the TNPCB / MoEF conditions.

With this back ground and need Kamarajar Port Limited has appointed **M/s. Hubert Enviro Care Systems (P) Ltd** to undertake the same. KPL has awarded the work to M/s. Hubert Enviro Care Systems (P) Ltd, Chennai vide work order **No. KPL/MS/Env/EM/04/2017 dated 20.07.2017 and extended work order No. KPL/MS/Env/EM/04/2017 dated 03.09.2020.**

Accordingly, environmental quality data on ambient air monitoring have been done for the month of **Feb'2023** and presented in this report.

2.0 Scopes 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 the study, Ambient Air Quality Parameters were measured during the monitoring days data of PM₁₀, PM_{2.5}, SO₂, NO₂ and CO were monitored.

AMBIENT AIR QUALITY MONITORING:

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

Table :Details of Ambient Air Quality Monitoring Locations

S. No	Station Code	Sampling Location
1	AAQ - 1	Near Admin
2	AAQ - 2	Near Signal
3	AAQ - 3	Near Finger Jetty
4	AAQ - 4	Near Guest House
5	AAQ - 5	Top of Main Gate
6	AAQ - 6	Top Of Fire Station
7	AAQ - 7	Near Car Parking
8	AAQ - 8	Near GCB

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i.e. at 8 locations. A Total of 64 samples each of PM₁₀ & PM_{2.5}, Samples of SO₂, NO₂ and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler & CO Analyzer.

2.2 Water Quality

Water samples were collected and analyzed as per procedures outlined in IS-3025/APHA/ASTM. Sterilized bottles were used for collection of water sample for bacteriological analysis, stored in icebox and transported the laboratory for the analysis. Parameters like pH, Temperature, Dissolved Oxygen were measured in the field while collecting the samples. MPN index of fecal coliforms were determined in the Laboratory as per standard methods.

MARINE WATER QUALITY MONITORING:

Marine Water Quality was assessed by collecting water samples at different locations inside the port. The study area covers periphery of port. A Total of 12 (6 Top and 6 bottom) water samples were assessed during **Feb' 2023**.

Table 2: Details of Marine Water Sample Collection Locations

S. No	Station Code	Sampling Location
1	A	Near GCB
2	B	Near Finger Jetty
3	C	Near MLT Berth
4	D	Near South East Break Water
5	E	Near North East Break Water
6	F	Near Channel

SURFACE WATER QUALITY MONITORING:

Surface Water Quality was assessed by collecting water samples at different locations inside the port. The study area covers periphery of port and different parts of the port. A Total of 3 water samples were assessed during **Feb'2023**.

Table 3: Details of Surface Water Sample Collection Locations

S. No	Station Code	Sampling Location
1	CR-I	Creek Mouth
2	CR-II	Opposite to Main Gate
3	CR-III	Opposite to West Gate

2.3 Sediment quality monitoring:

Sediment Quality was assessed by collecting sediment samples at different locations inside the port. The study area covers periphery of port and different parts of the port. A Total of 4 sediment samples were assessed during Feb'2023.

Table 4: Details of Sediment Sample Collection Locations

S. No	Station Code	Sampling Location
1	A	Near Finger Jetty
2	B	Near Marine Liquid Terminal (MLT)
3	C	Near General Cargo Berth (GCB)
4	CR1	Creek Mouth

2.4 Noise quality monitoring:

Noise Quality was assessed by recording noise levels at eight different locations inside the port.

Table 5: Details of Sediment Sample Collection Locations

S. No	Station Code	Sampling Location
1	A	Security Main Gate
2	B	Inside Port Admin Building
3	C	Signal Station
4	D	Finger Jetty
5	E	At Car Parking Yard
6	F	At General Cargo Berth
7	G	At Fire Station
8	H	Guest House

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Admin (AAQ-1)
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020.

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	07-08.02.2023	11.80	23.44	54.98	25.81	BLQ(LOQ: 0.05)
2	24	09-10.02.2023	12.15	21.82	53.77	24.19	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	10.68	22.46	54.35	24.72	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	13.41	25.15	55.28	23.65	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	9.52	20.52	52.76	22.92	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	14.20	24.62	51.93	23.84	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	12.36	21.49	54.28	23.69	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm); NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ – Below Limit of Quantification LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Signal (AAQ-2)
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd. Work
order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	07-08.02.2023	11.35	23.72	51.90	24.88	BLQ(LOQ: 0.05)
2	24	09-10.02.2023	8.48	20.40	54.38	23.93	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	12.60	23.48	51.75	22.63	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	14.25	21.93	55.20	21.70	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	11.75	22.55	53.86	22.84	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	13.24	20.42	52.80	25.46	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	12.66	24.36	50.93	26.92	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm); NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Finger Jetty (AAQ-3)
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	07-08.02.2023	11.72	24.32	53.75	25.41	BLQ(LOQ: 0.05)
2	24	10-11.02.2023	13.16	26.41	50.48	23.96	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	10.88	23.93	56.24	22.85	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	12.46	22.75	51.86	24.73	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	11.35	25.28	53.85	21.30	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	9.73	21.87	54.93	24.95	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	11.48	23.44	52.44	20.79	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm); NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ – Below Limit of Quantification LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s.Kamarajar Port Ltd.,**
Sample Description : **Ambient Air Quality**
Sample Mark : **Near Guest House (AAQ-4)**
Sample Drawn : **Hubert Enviro Care Systems Private Limited.**
ByWork order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	07-08.02.2023	11.93	24.58	57.02	23.74	BLQ(LOQ: 0.05)
2	24	10-11.02.2023	10.86	22.95	56.41	25.10	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	12.73	21.64	54.38	26.28	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	13.20	26.43	52.10	24.31	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	14.18	23.16	50.75	22.96	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	11.16	20.56	51.84	20.83	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	12.44	22.08	53.21	21.38	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂–Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm); NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ–Below Limit of Quantification; LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Top Of Main Gate (AAQ-5)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	07-08.02.2023	11.86	23.78	56.26	20.48	BLQ(LOQ: 0.05)
2	24	10-11.02.2023	8.73	25.36	53.36	24.52	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	13.44	22.93	51.25	23.76	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	12.82	21.76	54.83	22.25	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	10.46	24.39	52.74	25.10	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	10.94	23.58	50.82	24.72	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	14.60	22.73	52.39	22.38	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) ; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009 BLQ-Below Limit of Quantification; LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar PortLtd.,
Sample Description : Ambient Air Quality
Sample Mark : Top Of Fire Station (AAQ-6)
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	07-08.02.2023	13.66	25.83	52.89	23.16	BLQ(LOQ: 0.05)
2	24	10-11.02.2023	11.48	21.05	55.46	22.84	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	10.73	23.72	53.28	26.20	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	12.36	22.74	56.27	25.39	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	9.44	22.73	51.80	20.44	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	13.91	20.96	54.93	22.83	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	8.74	20.73	55.82	21.72	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb – Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ–Below Limit of Quantification LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Car Parking (AAQ-7)
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	08-09.02.2023	14.75	21.40	53.16	22.94	BLQ(LOQ: 0.05)
2	24	10-11.02.2023	12.62	20.58	50.38	20.86	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	8.90	23.93	52.15	21.08	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	11.36	24.86	51.80	23.84	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	9.88	22.76	54.05	26.05	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	8.65	20.89	56.82	21.96	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	10.45	22.75	53.30	24.85	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂–Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm); NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ–Below Limit of Quantification LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near GCB (AAQ-8)
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	08-09.02.2023	14.82	20.76	51.82	24.95	BLQ(LOQ: 0.05)
2	24	10-11.02.2023	12.56	25.16	54.36	20.44	BLQ(LOQ: 0.05)
3	24	14-15.02.2023	11.84	26.80	52.85	22.86	BLQ(LOQ: 0.05)
4	24	17-18.02.2023	10.96	24.36	54.60	25.85	BLQ(LOQ: 0.05)
5	24	20-21.02.2023	13.75	25.41	55.02	26.31	BLQ(LOQ: 0.05)
6	24	25-26.02.2023	12.58	21.40	54.94	21.84	BLQ(LOQ: 0.05)
7	24	27-28.02.2023	11.86	27.05	56.20	24.76	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂–Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm); NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ–Below Limit of Quantification LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Marine Water Quality
 Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020
 Sampling Date : 28/02/2023
 Report No : HECS/WT/01-02/280223 & HECS/WT/03-04/280223

S.No	Parameters	Units	Near General Cargo Berth		Near Finger Jetty		SW- Class-IV Harbour Standards
			Surface	Bottom 1.5 m	Surface	Bottom 1.5 m	
1	Temperature	°C	28.6	28.4	28.9	28.6	
2	pH (at 25 °C)	-	8.12	8.06	8.21	8.27	6.0-9.0
3	Salinity	ppt	33.17	33.41	33.67	33.09	-
4	Electrical conductivity	µS/cm	48600	48200	48000	47900	-
5	Turbidity	NTU	0.7	0.9	1.2	0.6	-
6	Suspended Particulate Matter	mg/l	2	3	3	2	-
7	Dissolved oxygen	mg/l	6.6	6.4	6.4	6.1	3.0
8	Total Dissolved Solids	mg/l	31104	30874	31055	30904	-
9	BOD,3 days @27°C as O ₂	mg/l	2	4	3	5	5.0
10	Chemical oxygen demand as O ₂	mg/l	36	48	40	52	-
11	Nitrite as NO ₂	mg/l	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	-
12	Nitrate as NO ₃	mg/l	2.34	2.41	2.23	2.39	-
13	Total Nitrogen as N	mg/l	2.41	2.48	2.30	2.45	-
14	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	-
15	Inorganic Phosphate	mg/l	0.071	0.065	0.061	0.078	-
16	Total Phosphorous as P	mg/l	0.039	0.024	0.022	0.041	-
17	Sulphate as SO ₄	mg/l	1724.3	1698.2	1781.3	1633.4	-
18	Dissolved Iron	mg/l	0.054	0.047	0.041	0.061	-
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	-
20	Lead as Pb	mg/l	BLQ(LOQ0.005)	BLQ(LOQ0.005)	BLQ(LOQ0.005)	BLQ(LOQ0.005)	-
21	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	-
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	-
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	-
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	-
25	Petroleum Hydro Carbons	mg/l	1.23	1.09	0.72	0.86	10
26	Chlorophyll A	mg/l	1.71	1.75	1.83	1.78	-
27	Feecal coliforms	MPN/100 ml	< 2	< 2	< 2	< 2	500/100ml

Legend: BLQ – Below the Limit of Quantification ; LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Marine Water Quality
 Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020
 Sampling Date : 28/02/2023
 Report No : HECS/WT/05-06/280223 & HECS/WT/07-08/280223

S.No	Parameters	Units	Near MLT Berth		Near South East Break Water		SW- Class-IV Harbour Standards
			Surface	Bottom 1.5 m	Surface	Bottom 1.5 m	
1	Temperature	°C	28.2	28.5	28.7	28.6	
2	pH (at 25 °C)	-	8.07	8.11	8.16	8.09	6.0-9.0
3	Salinity	Ppt	33.11	32.97	33.31	32.82	-
4	Electrical conductivity	µS/cm	47800	47600	48300	48500	-
5	Turbidity	NTU	1.0	1.4	0.9	1.1	-
6	Suspended Particulate Matter	mg/l	2	3	2	3	-
7	Dissolved oxygen	mg/l	6.3	6.1	6.6	6.5	3.0
8	Total Dissolved Solids	mg/l	30786	30987	31087	31025	-
9	BOD,3 days @27°C as O ₂	mg/l	4	6	2	4	5.0
10	Chemical oxygen demand as O ₂	mg/l	44	56	40	52	-
11	Nitrite as NO ₂	mg/l	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	-
12	Nitrate as NO ₃	mg/l	2.15	2.21	2.49	2.61	-
13	Total Nitrogen as N	mg/l	2.23	2.27	2.58	2.55	-
14	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	-
15	Inorganic Phosphate	mg/l	0.068	0.077	0.061	0.073	-
16	Total Phosphorous as P	mg/l	0.031	0.038	0.026	0.033	-
17	Sulphate as SO ₄	mg/l	1802.3	1755.3	1837.1	1864.1	-
18	Dissolved Iron	mg/l	0.041	0.049	0.056	0.045	-
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	-
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	-
21	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	-
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	-
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	-
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	-
25	Petroleum Hydro Carbons	mg/l	0.54	0.79	0.94	0.48	10
26	Chlorophyll - A	mg/l	1.69	1.71	1.78	1.85	-
27	Fecal coliforms	MPN/100 MI	< 2	< 2	< 2	< 2	500/100ml

Legend : BLQ – Below the Limit of Quantification; LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s.Kamarajar Port Ltd.,**
Sample Description : **Marine Water Quality**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd.**
Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
Sampling Date : **28/02/2023**
Report No : **HECS/WT/09-10/280223 & HECS/WT/11-12/280223**

S.No	Parameters	Units	Near North East Break Water		Near East Break Water		SW- Class-IV Harbour Standards
			Surface	Bottom 1.5 m	Surface	Bottom 1.5 m	
1	Temperature	°C	28.7	28.4	28.6	28.3	
2	pH (at 25 °C)	-	8.25	8.29	8.16	8.21	6.0-9.0
3	Salinity	Ppt	33.41	33.22	33.59	33.18	-
4	Electrical conductivity	µS/cm	48000	48200	48500	48400	-
5	Turbidity	NTU	0.8	1.5	1.1	0.9	-
6	Suspended Particulate Matter	mg/l	2	3.0	3	2	-
7	Dissolved oxygen	mg/l	6.6	6.4	6.6	6.3	3.0
8	Total Dissolved Solids	mg/l	30987	31194.0	30799.0	31065	-
9	BOD,3 days @27°C as O ₂	mg/l	3	5	4	6	5.0
10	Chemical oxygen demand as O ₂	mg/l	40	56	48	60	-
11	Nitrite as NO ₂	mg/l	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	-
12	Nitrate as NO ₃	mg/l	2.31	2.44	2.53	2.49	-
13	Total Nitrogen as N	mg/l	2.38	2.56	2.60	2.65	-
14	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	-
15	Inorganic Phosphate	mg/l	0.083	0.072	0.066	0.079	-
16	Total Phosphorous as P	mg/l	0.046	0.037	0.029	0.039	-
17	Sulphate as SO ₄	mg/l	1703.5	1811.6	1765.9	1803.8	-
18	Dissolved Iron	mg/l	0.062	0.059	0.068	0.053	-
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	-
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	-
21	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	-
22	Arsenic as As	mg/l	BLQ(LOQ0.005)	BLQ(LOQ0.005)	BLQ(LOQ0.005)	BLQ(LOQ0.005)	-
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	-
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	-
25	Petroleum Hydro Carbons	mg/l	0.65	1.08	1.17	0.94	10
26	Chlorophyll A	mg/l	1.77	1.71	1.86	1.89	-
27	Feecal coliforms	MPN/100 Ml	< 2	< 2	< 2	< 2	500/100ml

Legend : BLQ – Below the Limit of Quantification; LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Surface Water Quality
 Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020
 Sampling Date : 28/02/2023
 Report No : HECS/WT/013-014-015/280223

S.No.	Parameters	Units	Creek Mouth (CR-I)	Opposite to Main Gate (CR-II)	Opposite to West Gate (CR-III)
1	Temperature	°C	28.5	28.7	28.4
2	pH (at 25 °C)	-	8.19	8.28	8.15
3	Salinity	ppt	33.05	7.59	7.94
4	Electrical conductivity	µS/cm	48300	14700	15200
5	Turbidity	NTU	1.6	4.7	7.8
6	Suspended Particulate Matter	mg/l	3	9	17
7	Dissolved oxygen	mg/l	6.5	6.4	6.2
8	Total Dissolved Solids	mg/l	30821	9217.0	9871
9	BOD,3 days @27°C as O ₂	mg/l	5	2	4
10	Chemical oxygen demand as O ₂	mg/l	52	36	44
11	Nitrite as NO ₂	mg/l	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)
12	Nitrate as NO ₃	mg/l	2.67	3.11	2.51
13	Total Nitrogen as N	mg/l	2.73	3.24	2.59
14	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)	BLQ(LOQ:0.02)
15	Inorganic Phosphate	mg/l	0.083	0.063	0.078
16	Total Phosphorous as P	mg/l	0.042	0.027	0.035
17	Sulphate as SO ₄	mg/l	1631.2	791.2	706.7
18	Dissolved Iron	mg/l	0.054	0.087	0.061
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)	BLQ(LOQ 0.001)
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)
21	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)	BLQ(LOQ 0.0005)
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)	BLQ(LOQ 0.005)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)	BLQ(LOQ 0.01)
25	Petroleum Hydro Carbons	mg/l	0.93	0.79	0.51
26	Chlorophyll A	mg/l	1.80	1.76	1.85
27	Faecal coliforms	MPN/100 ml	110	<2	50

Legend : BLQ – Below the Limit of Quantification; LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Near GCB (Surface)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/001/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	6300 cells/L	
	Total Genus	05	
	Genus	Dinoflagellates, Naviculae Spp, Thalassiosira Spp, Scripsiella Spp, Odontella Spp	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	3700 cells/L	
	Total Genus	05	
	Genus	Obelia Spp, Globigerina Spp, Eucalanus Spp, Copepod, Oithona rigida	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	08 No's	
	Genus	Mussels, Clams, Crustaceans, bivalves, echinoderms, amoeba, Sea Squirts, Sea anemones	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Near GCB (Bottom 1.5m)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/002/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	6000 cells/L	
	Total Genus	09	
	Genus	Skeletonemaspp, Cerataulinaspp, Dityliumspp, Biddulphiaspp, Bacillariaspp, Ceratiumspp, Chaetoceros spp, Asterionellaspp, Coscinodiscusspp,	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	3100 cells/L	
	Total Genus	05	
	Genus	Acartiaspp, Copepod, Titinopsis, Globigerina Spp, Obelia Spp	
3	Macro Benthos		APHA 23 rd Edition 2017
	Total Genus	08 No's	
	Genus	Mussels, Clams, Crustaceans, Seaanemones, corals, sponges, Diatoms, ciliates	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Near Finger Jetty (Surface)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/003/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	5200 cells/L	
	Total Genus	07	
	Genus	Peridiniumspp, Chaetoceros spp, , Noctiluca spp, Biddulphia spp. Thalassiothrix spp, Streptotheca spp, Corethron spp	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	4100 cells/L	
	Total Genus	6	
	Genus	Acartia spp, Copepod, Globigerina spp, Eucalanus spp, Obelia spp, Copepod nauplii	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	8 No's	
	Genus	Mussels, Clams, Crustaceans, sponges, bivalves, Corals, Sponges, sea squirts	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Near Finger Jetty (Bottom 1.5m)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/004/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	5900 cells/L	
	Total Genus	8	
	Genus	Ceratium spp, Peridinium spp, Chaetoceros spp, Triodesmium spp, Pyroystis spp, Noctiluca spp, Biddulphia spp., Odontella spp	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	2400 cells/L	
	Total Genus	4	
	Genus	Obelia spp, Ceratium spp, Thalassiosira spp, Ceratium spp	
3	Macro Benthos		APHA 23 rd Edition 2017
	Total Genus	07 No's	
	Genus	Mussels, Clams, Crustaceans, Sea anemones, corals, sponges. Sponges	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **MLT Berth (Surface)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/005/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	6700 cells/L	
	Total Genus	07	
	Genus	Biddulphiaspp, Bacillariaspp,, Chaetoceros spp, Dinoflagellates spp, Rhizosoleniaspp, Scrippsiellasp, Naviculae spp,	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	4100 cells/L	
	Total Genus	06	
	Genus	Tintinopsis spp, Acartiaspp, Copepod, , Larvae, Crab Zoa, Oithona rigida	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	12 No's	
	Genus	Mussels, Clams, Crustaceans, bivalves, echinoderms, amoeba, Sea Squirts, Sea anemones, Corals, Sponges, Bivalves, Echinoderms	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **MLT Berth (Bottom 1.5m)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/006/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	5200 cells/L	
	Total Genus	08	
	Genus	MelosiraSpp,Thalassiothrixspp, Streptothecaspp, Skeletonemaspp, , Dityliumspp, Biddulphiaspp, Bacillariaspp,, Dinoflagellatesspp	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	3500 cells/L	
	Total Genus	05	
	Genus	Rhincalanus Spp,Tintinnidaspp, Acartiaspp, Copepod,Larvae	
3	Macro Benthos		APHA 23 rd Edition 2017
	Total Genus	08 No's	
	Genus	Mussels, Clams, Crustaceans,bivalves,echinoderms,amoeba,SeaSquirts,Sea anemones	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Near South Break Water (Surface)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MN/007/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	6900 cells/L	
	Total Genus	07	
	Genus	Coscinodiscusspp , Thalassiothrixspp, Biddulphiaspp, Bacillariaspp,, Chaetoceros spp. Dinoflagellates spp, Rhizosoleniaspp,	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	3100 cells/L	
	Total Genus	05	
	Genus	Titinopsis spp, Acartiaspp, Copepod, , Fish larvae, Acartia Spp	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	10 No's	
	Genus	Mussels, Clams, Crustaceans, bivalves, echinoderms,, Sea Squirts, Sea anemones, Corals, Sponges, Bivalves,	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : M/s. Kamarajar Port Ltd.,
 Sample Description : Marine Water Quality
 Sampling Mark : Near South Break Water (Bottom 1.5m)
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020
 Sampling Date : 28/02/2023
 Report No : HECS/MB/008/280223

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		
	Total Cell Count	7400 cells/L	APHA 23 rd Edition 2017
	Total Genus	11	
	Genus	Gymodiniumspp,Coscinodicusspp, Pyroystisspp, , Thalassiothrixspp, Streptothecaspp,Skeletonemaspp, , ,, Chaetocerossp.Dinoflagellatesspp,Rhizosoleniaspp,Scrippsiellaspp,Naviculaespp,	
2	Zooplankton (200µm mesh)		
	Total Cell Count	4300 cells/L	APHA 23 rd Edition 2017
	Total Genus	05	
	Genus	Globigerina Spp,Acartiaspp,Obeliaspp,Eucalanusspp,Fish larvae	
3	MacroBenthos		
	Total Genus	10 No's	APHA 23 rd Edition 2017
	Genus	Mussels, Clams, Crustaceans,bivalves,echinoderms,,SeaSquirts,Seaanemones,Corals,Sponges,Bivalves,	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Near North Break Water (Surface)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/009/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		
	Total Cell Count	5600 cells/L	APHA 23 rd Edition 2017
	Total Genus	09	
	Genus	MelosiraSpp,Thalassiothrixspp, Streptothecaspp, Skeletonemaspp, , Ditylium spp, Biddulphiaspp, Bacillariaspp,, Chaetoceros spp.Dinoflagellatesspp	
2	Zooplankton (200µm mesh)		
	Total Cell Count	3300 cells/L	APHA 23 rd Edition 2017
	Total Genus	06	
	Genus	Rhincalanus Spp,Tintinnidaspp, Acartiaspp, Copepod, , Larvae,Obelia Spp	
3	MacroBenthos		
	Total Genus	08 No's	APHA 23 rd Edition 2017
	Genus	Mussels, Clams, Crustaceans,bivalves,echinoderms,amoeba,SeaSquirts,Sea anemones	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Near North Break Water (Bottom 1.5m)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/010/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	7100 cells/L	
	Total Genus	08	
	Genus	Odontella Spp, Biddulphiaspp, Bacillariaspp., Chaetoceros spp, Dinoflagellates spp, Rhizosoleniaspp, Scrippsiellasp, Naviculae spp,	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	3900 cells/L	
	Total Genus	06	
	Genus	Tintinopsis spp, Acartiaspp, Copepod, , Larvae, Crab Zoea, Oithona rigida	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	12 No's	
	Genus	Mussels, Clams, Crustaceans, bivalves, echinoderms, amoeba, Sea Squirts, Sea anemones, Corals, Sponges, Bivalves, Echinoderms	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : M/s. Kamarajar Port Ltd.,
 Sample Description : Marine Water Quality
 Sampling Mark : Opposite Main Gate (Surface)
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020
 Sampling Date : 28/02/2023
 Report No : HECS/MB/011/280223

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	6400 cells/L	
	Total Genus	09	
	Genus	Dinoflagellates ,, Cerataulinaspp, Dityliumspp, Biddulphiaspp, Bacillariaspp, Ceratium spp, Chaetoceros spp, Asterionellaspp, Coscinodiscusspp,	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	2700 cells/L	
	Total Genus	04	
	Genus	Acartiaspp, Titinopsis, Globigerina Spp, Obelia Spp	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	09 No's	
	Genus	Mussels, Clams, Crustaceans, Seaanemones, corals, sponges, Diatoms, ciliates	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Marine Water Quality**
 Sampling Mark : **Opposite To West Gate-R3**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/012/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	7100 cells/L	
	Total Genus	07	
	Genus	Dinoflagellates,Naviculae Spp,Thalassiosira Spp,Scirpsiella Spp,Odentella Spp,Ceratium fiscus,Melosira Spp	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	3100 cells/L	
	Total Genus	05	
	Genus	ObeliaSpp,GlobigerinaSpp,EucalanusSpp,Copepod,Oithanarigida	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	08 No's	
	Genus	Mussels, Clams, Crustaceans,bivalves,echinoderms,amoeba,SeaSquirts,Sea anemones	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Surface Water Quality**
 Sampling Mark : **Creek Mouth (CR-I)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/013/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	6500 cells/L	
	Total Genus	08	
	Genus	Ceratium spp, Peridinium spp, Chaetoceros spp, Triodesmium spp, Pyroystis spp, Noctiluca spp, Biddulphia spp, Odontella spp	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	3100 cells/L	
	Total Genus	04	
	Genus	Obelia spp, Ceratium spp, Thalassiosira spp, Ceratium spp	
3	Macro Benthos		APHA 23 rd Edition 2017
	Total Genus	05 No's	
	Genus	Mussels, Clams, Crustaceans, Sea anemones, corals, sponges. Sponges	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Surface Water Quality**
 Sampling Mark : **Near East Break (Surface)**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/014/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	5700 cells/L	
	Total Genus	07	
	Genus	Peridiniumspp, Chaetoceros spp, , Noctiluca spp, Biddulphia spp, Thalassiothrix spp, Streptotheca spp, Corethron spp	
2	Zooplankton (200µm mesh)		APHA 23 rd Edition 2017
	Total Cell Count	2400 cells/L	
	Total Genus	06	
	Genus	Acartia spp, Copepod, Globigerina spp, Eucalanus spp, Obelia spp, Copepod nauplii	
3	MacroBenthos		APHA 23 rd Edition 2017
	Total Genus	08 No's	
	Genus	Mussels, Clams, Crustaceans, sponges, bivalves, Corals, ,seasquirts, echinoderms	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : **M/s. Kamarajar Port Ltd.,**
 Sample Description : **Surface Water Quality**
 Sampling Mark : **Near East Break Water Depth**
 Work order No : **KPL/MS/Env/EM/04/2017 dated 03.09.2020**
 Sampling Date : **28/02/2023**
 Report No : **HECS/MB/015/280223**

S.No	Parameters	Values	Test Method
1	Phytoplankton (64µm mesh)		
	Total Cell Count	6900 cells/L	APHA 23 rd Edition 2017
	Total Genus	07	
	Genus	Coscinodicusspp , Thalassiothrixspp, Biddulphiaspp, Bacillariaspp,, Chaetocerospp.Dinoflagellatesspp,Rhizosoleniaspp,	
2	Zooplankton (200µm mesh)		
	Total Cell Count	3100 cells/L	APHA 23 rd Edition 2017
	Total Genus	05	
	Genus	Titinopsis spp, Acartiaspp, Copepod, ,Fish larvae,Acartia Spp	
3	MacroBenthos		
	Total Genus	10 No's	APHA 23 rd Edition 2017
	Genus	Mussels, Clams, Crustaceans,bivalves,echinoderms,,SeaSquirts,Seaanemones,Corals, Sponges,Bivalves,	

Microbiologist

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar PortLtd.,
Sample Description : Sediment Quality
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020
Sampling Date : 28/02/2023
Report No : HECS/SI/001-004/280223

S.No.	Parameters	Units	Near Finger Jetty	Near Marine Liquid Terminal	Near General Cargo Berth	Creek Mouth
1	Particle Size	Mm	0.01	0.02	0.01	0.02
2	Total Organic Carbon	%	0.62	0.65	0.70	0.76
3	Total Inorganic Carbon	%	99.38	99.35	99.30	99.24
4	Mercury	mg/kg	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)
5	Lead	mg/kg	1.03	0.95	1.12	0.53
6	Copper	mg/kg	6.93	4.58	7.05	10.83
7	Cadmium	mg/kg	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)
8	Arsenic	mg/kg	BLQ(LOQ 0.1)	BLQ(LOQ 0.1)	BLQ (LOQ 0.1)	BLQ (LOQ 0.1)

Note: mm- Millimeter, mg/kg- milligram per Kilogram, BLQ – Below the Limit of Quantification; LOQ- Limit of Quantification

Engineer/Analyst

Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Noise Monitoring
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020.
Sampling Date : 28/02/2023
Report No : HECS/NS/001-008/280223

S.No	Location	Time	Day Time Noise level in dB (A)	Time	Night Time Noise level in dB (A)
1	Security Main Gate	12.00	66.2	22.00	51.5
2	Inside Port Admin Building	12.30	63.4	22.15	45.2
3	Signal Station	12.50	64.5	22.30	44.6
4	Finger Jetty	13.15	58.6	22.45	53.0
5	At Car Parking Yard	13.35	64.8	23.05	55.8
6	At General Cargo Berth	13.50	66.4	23.20	52.7
7	At Fire Station	14.10	62.4	23.35	51.3
8	Guest House	14.30	61.2	23.50	45.8

Remarks: Complies as per CPCB norms.

Limits set by CPCB:

- i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
- ii. Commercial Area : Day Time-65 dB (A); Night Time-55 dB (A).
- iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
- iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).

Limits set by Tamilnadu Factories Rules, 1950 Permissible Limit of Exposure (8 hrs):

- i. Working Area : 90 dB (A)

Engineer/Analyst

Authorized Signatory.

**Sampling and Testing of various Environmental Parameters inside
Kamarajar Port**



TEST REPORT

MARCH' 2023

HECS
Hubert Enviro Care Systems (P) Ltd

(An ISO 9001: 2015 Company) (Accredited by NABL, Recognized by MoEF)
#18,92nd Street, Ashok Nagar, Chennai – 600 083.

Phone: (044)-4363 5555
Email – labreports@hecs.in

1.0 Introduction

Kamarajar port is the first Corporatized Port in India and the 12th Major Port. It works on the model of "Land Lord" concept. KPL's policy is to manage the port in a pro-active manner to minimize any impacts from port operations or new developments. Kamarajar port handles coal for Tamil Nadu Electricity Board, POL products and export of automobiles. Data generation on environmental quality constitutes the basis for environmental appraisal of the project. Thus data on environmental quality has to be periodically monitored and also to comply the TNPCB / MoEF conditions.

With this back ground and need Kamarajar Port Limited has appointed M/s. Hubert Enviro Care Systems (P) Ltd to undertake the same. KPL has awarded the work to M/s. Hubert Enviro Care Systems (P) Ltd, Chennai vide work order No. KPL/MS/Env/EM/04/2017 dated 20.07.2017 and extended work order No. KPL/MS/Env/EM/04/2017 dated 03.09.2020.

Accordingly, environmental quality data on ambient air for the month of **March 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 the study, Ambient Air Quality Parameters were measured during the monitoring days. Data of PM₁₀, PM_{2.5}, SO₂, NO₂ and CO were monitored.

AMBIENT AIR QUALITY MONITORING:

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

Table : Details of Ambient Air Quality Monitoring Locations

S. No	Station Code	Sampling Location
1	AAQ - 1	Near Admin
2	AAQ - 2	Near Signal
3	AAQ - 3	Near Finger Jetty
4	AAQ - 4	Near Guest House
5	AAQ - 5	Top of Main Gate
6	AAQ - 6	Top Of Fire Station
7	AAQ - 7	Near Car Parking
8	AAQ - 8	Near GCB

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i.e. at 8 locations. A Total of 64 samples each of PM₁₀ & PM_{2.5}. Samples of SO₂, NO₂ and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler & CO Analyzer.

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Admin (AAQ-1)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020.

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	11.58	20.63	55.18	24.10	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	13.20	22.58	52.62	22.84	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	14.96	21.35	54.15	23.41	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	12.45	23.48	53.60	25.48	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	10.51	24.64	50.14	24.10	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	12.64	25.26	48.26	23.52	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	13.25	26.45	56.48	21.48	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	10.58	23.62	55.35	25.66	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNCPB for Industrial Areas 2009. BLQ - Below Limit of Quantification LOQ- Limit of Quantification.


Engineer/Analyst


Authorized Signatory.



Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Signal (AAQ-2)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	10.48	21.66	53.88	21.64	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	11.62	23.48	51.52	23.10	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	13.53	20.51	53.40	22.95	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	12.15	25.35	54.26	20.72	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	10.54	22.72	55.18	25.38	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	13.68	24.10	52.08	23.05	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	11.38	20.92	55.35	24.15	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	12.16	22.36	50.24	24.60	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNCPB for Industrial Areas 2009, BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

Engineer/Analyst

Authorized Signatory.



Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Finger Jetty (AAQ-3)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	10.68	21.44	52.48	25.91	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	11.52	23.62	54.31	22.40	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	13.46	24.53	55.20	26.32	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	8.93	20.42	53.17	21.54	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	12.76	25.35	50.66	23.48	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	9.54	22.68	53.16	25.15	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	11.72	23.54	56.25	24.88	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	13.25	25.35	49.24	23.68	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ - Below Limit of Quantification
LOQ- Limit of Quantification.


Engineer/Analyst


Authorized Signatory.



Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Guest House (AAQ-4)
Sample Drawn : Hubert Enviro Care Systems Private Limited.
ByWork order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	13.52	25.62	52.39	23.69	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	12.64	23.58	54.28	24.48	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	11.48	24.16	55.36	21.93	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	10.41	25.44	53.84	23.93	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	8.26	23.48	50.72	20.73	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	9.48	22.16	53.88	26.40	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	13.10	24.92	51.60	22.52	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	10.49	22.56	54.93	25.88	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNCPB for Industrial Areas 2009. BLQ-Below Limit of Quantification; LOQ- Limit of Quantification.



Engineer/Analyst




Authorized Signatory.

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Top Of Main Gate (AAQ-5)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	13.52	21.65	53.26	23.68	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	14.62	23.48	54.14	25.36	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	10.83	26.53	55.30	24.29	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	12.41	24.41	52.62	21.30	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	8.78	23.23	50.39	25.81	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	11.53	22.84	48.93	26.30	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	12.82	21.85	50.60	22.92	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	11.60	24.10	53.92	24.84	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009 BLQ- Below Limit of Quantification; LOQ- Limit of Quantification.

Gr. 
Engineer/Analyst




Authorized Signatory.

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Top Of Fire Station (AAQ-6)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	10.93	23.68	54.22	25.93	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	13.74	25.15	52.60	24.38	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	12.54	24.34	50.74	20.65	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	8.56	22.62	53.58	23.40	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	11.28	26.93	25.35	21.52	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	9.73	21.44	53.72	22.84	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	14.60	23.72	56.28	23.52	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	11.82	23.82	48.15	25.93	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification
LOQ- Limit of Quantification.



Engineer/Analyst



Authorized Signatory.



Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near Car Parking (AAQ-7)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	11.82	24.38	52.66	25.95	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	13.26	26.66	54.84	24.32	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	9.45	23.42	49.63	22.73	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	12.83	22.53	53.25	26.22	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	10.54	20.35	50.83	25.44	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	9.38	24.16	51.37	23.52	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	11.74	25.73	50.25	20.89	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	8.89	21.62	53.83	21.45	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification
LOQ- Limit of Quantification.



Engineer/Analyst



Authorized Signatory.



Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.

Ph: 42985555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
Sample Description : Ambient Air Quality
Sample Mark : Near GCB (AAQ-8)
Sample Drawn By : Hubert Enviro Care Systems Private Limited.
Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 05/03/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.03.2023	12.05	23.54	54.36	21.92	BLQ(LOQ: 0.05)
2	24	06-07.03.2023	14.62	26.36	52.72	24.63	BLQ(LOQ: 0.05)
3	24	10-11.03.2023	13.26	22.41	53.86	20.35	BLQ(LOQ: 0.05)
4	24	13-14.03.2023	11.93	24.14	50.18	22.54	BLQ(LOQ: 0.05)
5	24	17-18.03.2023	10.52	20.88	55.07	26.40	BLQ(LOQ: 0.05)
6	24	24-25.03.2023	12.81	24.36	55.31	23.19	BLQ(LOQ: 0.05)
7	24	27-28.03.2023	10.93	25.48	54.02	22.58	BLQ(LOQ: 0.05)
8	24	31-01.04.2023	8.44	20.93	48.15	22.14	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification LOQ- Limit of Quantification.


Engineer/Analyst


Authorized Signatory.



**Sampling and Testing of various Environmental Parameters inside
Kamarajar Port**



KAMARAJAR PORT LIMITED

TEST REPORT

APRIL' 2023

HECS

Hubert Enviro Care Systems (P) Ltd

(An ISO 9001: 2015 Company) (Accredited by NABL, Recognized by MoEF)

#18,92nd Street, Ashok Nagar, Chennai – 600 083.

Phone: (044)-4363 5555

Email – labreports@hecs.in

1.0 Introduction

Kamarajar port is the first Corporatized Port in India and the 12th Major Port. It works on the model of "Land Lord" concept. KPL's policy is to manage the port in a pro-active manner to minimize any impacts from port operations or new developments. Kamarajar port handles coal for Tamil Nadu Electricity Board, POU products and export of automobiles. Data generation on environmental quality constitutes the basis for environmental appraisal of the project. Thus data on environmental quality has to be periodically monitored and also to comply the TNPCB / MoEF conditions.

With this back ground and need Kamarajar Port Limited has appointed M/s. Hubert Enviro Care Systems (P) Ltd to undertake the same. KPL has awarded the work to M/s. Hubert Enviro Care Systems (P) Ltd, Chennai vide work order No. KPL/MS/Env/EM/04/2017 dated 20.07.2017 and extended work order No. KPL/MS/Env/EM/04/2017 dated 03.09.2020.

Accordingly, environmental quality data on ambient air for the month of APRIL'2023 is presented in this report.

2.0 Scopes 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 the study, Ambient Air Quality Parameters were measured during the monitoring days data of PM₁₀, PM_{2.5}, SO₂, NO₂ and CO were monitored.

AMBIENT AIR QUALITY MONITORING:

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

Table :Details of Ambient Air Quality Monitoring Locations

S. No	Station Code	Sampling Location
1	AAQ - 1	Near Admin
2	AAQ - 2	Near Signal
3	AAQ - 3	Near Finger Jetty
4	AAQ - 4	Near Guest House
5	AAQ - 5	Top of Main Gate
6	AAQ - 6	Top Of Fire Station
7	AAQ - 7	Near Car Parking
8	AAQ - 8	Near GCB

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i.e. at 8 locations. A Total of 64 samples each of PM10 & PM 2.5, Samples of SO₂, NO₂ and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler & CO Analyzer.

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,

Chennai - 600 083.

Ph: 42985555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

*Kamarajar Port Limited**Environmental Monitoring Report April'2023***TEST REPORT**

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Ambient Air Quality
 Sample Mark : Near Admin (AAQ-1)
 Sample Drawn By : Hubert Enviro Care Systems Private Limited.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020.

Report Date : 06/05/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	11.23	21.03	54.88	24.57	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	12.31	22.15	52.54	23.34	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	12.42	22.10	53.99	23.12	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	13.17	23.64	53.78	24.88	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	12.62	24.62	50.25	24.31	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	13.54	25.81	48.71	22.46	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	13.05	26.33	56.35	21.09	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	11.09	22.97	54.11	24.63	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ - Below Limit of Quantification LOQ- Limit of Quantification.



Engineer/Analyst




Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Ambient Air Quality
 Sample Mark : Near Signal (AAQ-2)
 Sample Drawn By : Hubert Enviro Care Systems Private Limited.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 06/05/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	11.05	21.23	53.51	21.46	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	11.74	23.62	51.28	22.98	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	13.32	21.89	52.02	23.01	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	12.01	24.91	54.16	21.11	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	11.21	23.01	55.48	25.63	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	13.53	24.32	52.22	23.85	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	12.28	21.15	54.75	23.52	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	11.89	22.67	51.26	23.48	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification
 LOQ- Limit of Quantification.


 Engineer/Analyst




 Authorized Signatory.

TEST REPORT

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Ambient Air Quality
 Sample Mark : Near Finger Jetty (AAQ-3)
 Sample Drawn By : Hubert Enviro Care Systems Private Limited.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 06/05/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	11.03	21.45	52.71	25.31	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	11.46	23.83	53.12	21.98	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	12.84	24.32	54.65	25.22	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	9.93	21.54	53.11	22.09	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	13.09	24.67	50.24	23.73	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	10.22	21.98	53.38	25.09	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	11.87	23.43	53.77	24.18	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	13.51	24.18	50.13	23.86	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂- Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ - Below Limit of Quantification LOQ- Limit of Quantification.


 Engineer/Analyst


 Authorized Signatory.

Kamarajar Port Limited**Environmental Monitoring Report April'2023****TEST REPORT**

Name of the Client

: M/s.Kamarajar Port Ltd.,

Report Date : 06/05/2023

Sample Description

: Ambient Air Quality

Sample Mark

: Near Guest House (AAQ-4)

Sample Drawn

: Hubert Enviro Care Systems Private Limited.

By/Work order No

: KPL/MS/Env/EM/04/2017 dated 03.09.2020

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	13.33	24.82	53.11	24.51	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	12.41	23.31	53.44	25.03	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	11.31	24.13	54.93	21.65	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	10.88	24.38	52.16	23.72	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	9.78	23.57	50.09	21.02	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	10.02	22.74	54.21	25.33	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	13.26	24.48	51.73	23.46	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	11.56	23.01	53.55	24.98	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification; LOQ- Limit of Quantification.


 Engineer/Analyst


 Authorized Signatory.

*Kamarajar Port Limited**Environmental Monitoring Report April'2023***TEST REPORT**

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Ambient Air Quality
 Sample Mark : Top Of Main Gate (AAQ-5)
 Sample Drawn By : Hubert Enviro Care Systems Private Limited.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 06/05/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	13.22	21.37	52.97	22.19	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	14.13	23.29	53.56	24.35	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	10.51	25.43	53.86	24.82	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	11.89	25.05	52.41	22.30	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	9.06	23.74	50.62	25.39	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	12.88	22.93	50.13	25.91	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	12.24	21.52	51.48	23.11	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	12.84	23.13	52.37	23.88	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009 BLQ-Below Limit of Quantification; LOQ- Limit of Quantification.



Engineer/Analyst




Authorized Signatory.

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,

Chennai - 600 083.

Ph: 42985555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

*Kamarajar Port Limited**Environmental Monitoring Report April'2023***TEST REPORT**

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Ambient Air Quality
 Sample Mark : Top Of Fire Station (AAQ-6)
 Sample Drawn By : Hubert Enviro Care Systems Private Limited.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 06/05/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	11.02	23.48	53.19	25.32	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	12.84	25.02	52.48	24.65	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	12.43	23.44	51.12	21.23	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	10.77	23.26	53.64	23.44	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	11.51	24.11	52.27	21.73	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	10.23	21.85	53.87	23.06	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	13.77	23.15	54.33	23.17	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	12.01	23.63	51.25	24.81	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification
 LOQ- Limit of Quantification.


 Engineer/Analyst




 Authorized Signatory.

*Kamarajar Port Limited**Environmental Monitoring Report April'2023***TEST REPORT**

Name of the Client

Sample Description

Sample Mark

Sample Drawn By

Work order No

: M/s.Kamarajar Port Ltd.,

: Ambient Air Quality

: Near Car Parking (AAQ-7)

: Hubert Enviro Care Systems Private Limited.

: KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 06/05/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	11.47	24.54	53.05	25.70	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	12.04	25.36	53.88	25.13	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	10.13	23.51	50.32	23.84	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	11.28	23.04	52.64	25.16	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	11.13	22.77	51.47	24.93	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	10.86	24.42	51.93	24.15	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	11.15	25.11	51.29	22.11	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	11.09	23.48	53.46	22.05	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNCPB for Industrial Areas 2009. BLQ-Below Limit of Quantification LOQ- Limit of Quantification.



Engineer/Analyst




Authorized Signatory.

Hubert Enviro Care Systems (P) Ltd.# 18, 92nd Street, Ashok Nagar,
Chennai - 600 083.

Ph: 42985555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

*Kamarajar Port Limited**Environmental Monitoring Report April'2023***TEST REPORT**

Name of the Client : M/s.Kamarajar Port Ltd.,
 Sample Description : Ambient Air Quality
 Sample Mark : Near GCB (AAQ-8)
 Sample Drawn By : Hubert Enviro Care Systems Private Limited.
 Work order No : KPL/MS/Env/EM/04/2017 dated 03.09.2020

Report Date : 06/05/2023

S.NO	Sampling (hrs)	Sampling Date	Parameters monitored				
			SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1	24	03-04.04.2023	13.27	24.13	54.05	22.04	BLQ(LOQ: 0.05)
2	24	07-08.04.2023	13.89	24.21	53.22	23.55	BLQ(LOQ: 0.05)
3	24	10-11.04.2023	12.43	22.89	53.45	21.34	BLQ(LOQ: 0.05)
4	24	14-15.04.2023	12.01	24.33	51.64	23.13	BLQ(LOQ: 0.05)
5	24	17-18.04.2023	11.74	22.42	53.31	25.47	BLQ(LOQ: 0.05)
6	24	21-22.04.2023	12.66	23.78	54.22	24.70	BLQ(LOQ: 0.05)
7	24	24-25.04.2023	11.23	24.88	53.49	23.31	BLQ(LOQ: 0.05)
8	24	29-30.04.2023	10.28	22.51	52.11	23.88	BLQ(LOQ: 0.05)
NAAQ Standards (2009)			80	80	100	60	2

Note: SO₂-Sulphur dioxide, NO₂- Nitrogen dioxide, PM₁₀ - (Particulate Matter size less than 10 µm), PM_{2.5} - (Particulate Matter size less than 2.5 µm) CO- Carbon monoxide, Pb - Particulate Lead; NAAQ Norms- National Ambient Air Quality Stipulated by CPCB/TNPCB for Industrial Areas 2009. BLQ-Below Limit of Quantification
 LOQ- Limit of Quantification.


 Engineer/Analyst


 Authorized Signatory.



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: May 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Ambient Noise Monitoring	18-19
3	Test Reports of Effluent (Sewage) Monitoring	20-21



CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Ambient Air Quality Monitoring



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to stated amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9673524093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/05/2023	TC636623000001570F	23.45	58.65	14.34	26.32	ND
2	09/05/2023	TC636623000001605F	26.34	54.45	13.45	24.40	ND
3	12/05/2023	TC636623000001690F	19.45	53.85	9.45	29.50	ND
4	16/05/2023	TC636623000001729F	21.45	58.94	11.60	21.10	ND
5	19/05/2023	TC636623000001762F	20.45	54.45	15.45	30.45	ND
6	23/05/2023	TC636623000001812F	20.45	57.39	12.45	31.33	ND
7	26/05/2023	TC636623000001857F	19.45	59.33	10.10	22.35	ND
8	29/05/2023	TC636623000001898F	24.44	51.96	13.96	29.46	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPECB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remarks:

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. CPECB-Central Pollution Control Board



TC-6366



(NAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount received only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873238982.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

Nature of the Sample :

Ambient Air Quality Monitoring

Purpose of Monitoring :

To Check the Pollution Load

Sampling Location :

Main Gate

Method of Sampling :

IS 5182 (Part 14)

Monitoring Conducted By :

Mr. Shridhar

Sampling Duration (Hrs.) :

24 Hrs

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	04/05/2023	202305040110	ND
2	09/05/2023	202309040110	ND
3	12/05/2023	202305120110	ND
4	16/05/2023	202305160110	ND
5	19/05/2023	202305190110	ND
6	23/05/2023	202305230110	ND
7	26/05/2023	202305260110	ND
8	29/05/2023	202305290110	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQSS: National Ambient Air Quality Standards: Schedule-VII, (Rule 3 (3M)), (Part-6 sec.-3(i)) 16-11-2008, ND-Not Detected
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced or used in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872820033

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/05/2023	TC636623000001571F	30.41	30.36	13.45	18.45	ND
2	09/05/2023	TC636623000001606F	22.45	34.45	14.39	26.40	ND
3	12/05/2023	TC636623000001691F	26.39	45.44	10.45	30.39	ND
4	16/05/2023	TC636623000001730F	27.05	39.54	12.45	24.30	ND
5	19/05/2023	TC636623000001763F	19.45	41.49	13.55	29.25	ND
6	23/05/2023	TC636623000001813F	18.32	48.39	15.45	25.95	ND
7	26/05/2023	TC636623000001858F	21.44	26.45	9.45	28.85	ND
8	29/05/2023	TC636623000001899F	25.45	39.45	16.25	31.45	ND
NAAQM Standards			80	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remarks:

NAAQS: National Ambient Air Quality Standards, Schedule VII (Part 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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8672628092

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/06/2023

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Purpose of Monitoring : **To Check the Pollution Load**
Sampling Location : **Guest House**
Method of Sampling : **IS 5162 (Part 14)**
Monitoring Conducted By : **Mr. Shridhar**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	04/05/2023	202305040111	ND
2	09/05/2023	202309040111	ND
3	12/05/2023	202305120111	ND
4	16/05/2023	202305160111	ND
5	19/05/2023	202305190111	ND
6	23/05/2023	202305230111	ND
7	26/05/2023	202305260111	ND
8	29/05/2023	202305290111	ND
Test Method			PID Based Methane Analyser

Remark:

NAADS: National Ambient Air Quality Standards- Schedule-VI, (Rule 3 (3B)), (Part-B-sec-3(i)) IS 11:2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873934093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Admin Building

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/05/2023	TC636623000001568F	30.45	50.45	14.45	26.95	ND
2	09/05/2023	TC636623000001607F	32.84	55.76	15.42	30.75	ND
3	12/05/2023	TC636623000001692F	25.36	43.95	13.45	29.50	ND
4	16/05/2023	TC636623000001731F	31.39	47.85	16.70	21.30	ND
5	19/05/2023	TC636623000001764F	29.45	51.33	10.65	19.46	ND
6	23/05/2023	TC636623000001814F	28.32	54.96	12.45	31.45	ND
7	26/05/2023	TC636623000001859F	23.45	58.29	11.45	32.95	ND
8	29/05/2023	TC636623000001900F	32.45	41.44	9.32	33.69	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please email us at info@nityalab.com and call at +91-191-2465597, +91-987324683

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	04/05/2023	202305040112	ND
2	09/05/2023	202309040112	ND
3	12/05/2023	202305120112	ND
4	16/05/2023	202305160112	ND
5	19/05/2023	202305190112	ND
6	23/05/2023	202305230112	ND
7	26/05/2023	202305260112	ND
8	29/05/2023	202305290112	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-8-sec.-3(i)] 16.11.2009, 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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872304032

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/05/2023	TC636623000001569F	30.45	54.26	10.45	25.23	ND
2	09/05/2023	TC636623000001608F	29.36	58.38	12.32	21.42	ND
3	12/05/2023	TC636623000001693F	21.30	59.94	14.39	26.54	ND
4	16/05/2023	TC636623000001732F	25.54	53.40	15.95	24.62	ND
5	19/05/2023	TC636623000001765F	19.65	57.60	17.32	23.98	ND
6	23/05/2023	TC636623000001815F	17.69	59.39	9.45	28.80	ND
7	26/05/2023	TC636623000001860F	27.49	51.24	11.10	25.70	ND
8	29/05/2023	TC636623000001901F	22.94	56.95	16.75	22.95	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (III)], [Part-III sec -30] 16.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-967394892

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/05/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	04/05/2023	202305040113	ND
2	09/05/2023	202309040113	ND
3	12/05/2023	202305120113	ND
4	16/05/2023	202305160113	ND
5	19/05/2023	202305190113	ND
6	23/05/2023	202305230113	ND
7	26/05/2023	202305260113	ND
8	29/05/2023	202305290113	ND
Test Method			PID Based Methane Analyser

Remark:

NAASR: National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (88), (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

NITYA LABORATORIES
RAVINDER MITTAL
(AUTHORISED SIGNATORY)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. This report shall not be reproduced except in full without written approval of the laboratory. This report is provided only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873334892

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	09/05/2023	TC636623000001609F	24.32	33.42	18.45	24.32	ND
2	12/05/2023	TC636623000001694F	30.22	37.44	24.39	23.45	ND
3	16/05/2023	TC636623000001733F	18.44	41.69	28.45	22.39	ND
4	19/05/2023	TC636623000001786F	15.49	50.42	31.32	21.84	ND
5	23/05/2023	TC636623000001816F	23.45	53.45	30.45	28.32	ND
6	26/05/2023	TC636623000001861F	29.44	45.42	25.41	29.94	ND
7	29/05/2023	TC636623000001902F	26.98	49.10	29.45	30.10	ND
NAAQM Standards			80	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (3B)), (Part-II sec.-3(i)) 15.11.2009. ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



TC-6366



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873238992

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	09/05/2023	202309040114	ND
2	12/05/2023	202305120114	ND
3	16/05/2023	202305160114	ND
4	19/05/2023	202305190114	ND
5	23/05/2023	202305230114	ND
6	26/05/2023	202305260114	ND
7	29/05/2023	202305290114	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQIS: National Ambient Air Quality Standards, Schedule VI, (Rule 3 (3B), (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. GPCB-Central Pollution Control Board


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872924892

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	09/05/2023	TC636623000001610F	21.10	39.45	10.42	19.45	ND
2	12/05/2023	TC636623000001695F	22.30	32.61	13.45	21.39	ND
3	16/05/2023	TC636623000001734F	33.34	29.44	15.39	24.45	ND
4	19/05/2023	TC636623000001767F	24.98	26.56	16.38	30.49	ND
5	23/05/2023	TC636623000001817F	25.64	34.46	9.95	31.95	ND
6	26/05/2023	TC636623000001862F	28.39	35.96	12.32	26.45	ND
7	29/05/2023	TC636623000001903F	29.41	30.44	13.45	29.45	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remarks:

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



TC-6366



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8872824893

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	09/05/2023	202309040115	ND
2	12/05/2023	202305120115	ND
3	16/05/2023	202305160115	ND
4	19/05/2023	202305190115	ND
5	23/05/2023	202305230115	ND
6	26/05/2023	202305260115	ND
7	29/05/2023	202305290115	ND
Test Method			PID Based Methane Analyser

Remarks:

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


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is provided only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to invoice amount only.
If you have any complaints/feedback regarding the sample collection/testing/test report, please email or call at info@nityalab.com or call at +91-191-2465597, +91-9872934963

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	09/05/2023	TC636623000001611F	28.44	26.45	14.30	23.90	ND
2	12/05/2023	TC636623000001696F	28.90	21.39	19.45	25.34	ND
3	16/05/2023	TC636623000001735F	30.45	28.56	16.34	30.54	ND
4	19/05/2023	TC636623000001768F	21.49	32.96	11.44	32.32	ND
5	23/05/2023	TC636623000001818F	24.67	35.44	13.45	20.81	ND
6	26/05/2023	TC636623000001863F	23.74	27.33	15.93	23.96	ND
7	29/05/2023	TC636623000001904F	25.89	37.45	20.45	21.84	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-No 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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid.
If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873904993

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

Nature of the Sample	Ambient Air Quality Monitoring
Purpose of Monitoring	To Check the Pollution Load
Sampling Location	Car Parking
Method of Sampling	IS 5162 (Part 14)
Monitoring Conducted By	Mr. Shridhar
Sampling Duration (Hrs.)	24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	09/05/2023	202309040116	ND
2	12/05/2023	202305120116	ND
3	16/05/2023	202305160116	ND
4	19/05/2023	202305190116	ND
5	23/05/2023	202305230116	ND
6	26/05/2023	202305260116	ND
7	29/05/2023	202305290116	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (3B)) (Part II-sec-30) 16.11.2002, 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to stated amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873334950

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	09/05/2023	TC636623000001612F	25.97	26.45	17.39	25.45	ND
2	12/05/2023	TC636623000001697F	24.76	30.45	19.41	31.44	ND
3	16/05/2023	TC636623000001736F	26.56	32.96	20.41	33.93	ND
4	19/05/2023	TC636623000001769F	29.34	48.42	21.56	30.81	ND
5	23/05/2023	TC636623000001819F	23.13	41.65	11.45	22.54	ND
6	26/05/2023	TC636623000001863F	21.42	36.20	12.39	21.34	ND
7	29/05/2023	TC636623000001904F	24.61	45.36	13.40	22.45	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (3)(b), [Part-B-sec-3(a)] 16-11-2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



TC-6366



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873324955

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	09/05/2023	202309040117	ND
2	12/05/2023	202305120117	ND
3	16/05/2023	202305160117	ND
4	19/05/2023	202305190117	ND
5	23/05/2023	202305230117	ND
6	26/05/2023	202305260117	ND
7	29/05/2023	202305290117	ND
Test Method			PID Based Methane Analyser

Remark:

NAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3)(c), (Part-B-sec-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.
 Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board


 (AUTHORISED SIGNATORY)
 (RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount paid only.
 If you have any complaints/feedback regarding the sample collection/testing/test report, please email us at info@nityalab.com and call at +91-191-2465597, +91-9872624862

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Noise Monitoring


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924990

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No: TC636623000001908F-1915F
Test Report Date: 02/06/2023

Sample Particulars

Nature of the Sample

Parameter Tested

Instrument Used

Sampling Duration (Hrs)

Ambient Noise
Noise Level, Leq dB (A)*
Sound Level Meter
24 Hrs

Analysis Report

Sr. No.	Location	Date of Sampling	Test Result dB(A) Day Time	Test Result dB(A) Night-time
1	Main Gate	29/05/2023	63.3	60.01
2	Guest House	29/05/2023	55.26	51.03
3	Admin Building	29/05/2023	58.83	53.23
4	Signal Station	29/05/2023	59.36	56.90
5	Finger Jetty	29/05/2023	57.8	55.23
6	General Cargo Berth	29/05/2023	57.8	52.23
7	Car Parking	29/05/2023	62.6	60.93
8	Fire Station	29/05/2023	59.61	57.16
Permissible Limit in *dB(A) Leq for Industrial Area			75 dB(A)	70 dB(A)

Remark:

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

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

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



TC-6366



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to service amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924993

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)


(AUTHORISED SIGNATORY)
(RAVINDER MITAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924888

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: TC636623000001906F-1907F
Test Report Date: 06/06/2023

Sample Particulars

Nature of the Sample	Wastewater (STP)
Sample Quantity & Packaging	1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	31/05/2023
Test Started On	31/05/2023
Test Completed On	05/06/2023
Method of Sampling	SOP/B/D-3
Date of Sampling	29/05/2023
Monitoring Conducted By	Mr. Shridhar
Sample Description	W-1: STP O/L of Admin Building W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	—	7.69	7.60	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	186	368	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	40	20	150	IS:3025 (P-56)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	12	5	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	348	426	<1000	IS:1622


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)



TC-6366


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to stated amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872024093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: June 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Effluent (Sewage) Monitoring	18-19
3	Test Reports of Surface Water Monitoring	20-23
4	Test Reports of Marine Water Monitoring	24-36
5	Test Reports of Marine Sediment Monitoring	37-38



CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Ambient Air Quality Monitoring



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written permission of the laboratory. This report is intended only for your guidance and for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test result, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9810049991

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: **07/2023**

2

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/06/2023	TC636623000002207F	26.80	61.70	17.50	30.10	ND
2	05/06/2023	TC636623000002245F	30.10	58.70	16.90	28.50	ND
3	08/06/2023	TC636623000002296F	23.50	57.40	12.70	32.90	ND
4	12/06/2023	TC636623000002381F	25.70	61.80	15.80	25.30	ND
5	15/06/2023	TC636623000002461F	32.80	58.40	19.20	34.70	ND
6	23/06/2023	TC636623000002585F	24.50	60.80	16.20	35.40	ND
7	26/06/2023	TC636623000002677F	23.50	60.80	14.10	26.10	ND
8	30/06/2023	TC636623000002804F	28.50	54.70	18.10	33.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-I-sec-3(i)] 18.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NITYA: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose in the judgement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/analysis/test report, please send an email at info@nityalab.com or call at +91-191-2465597, +91-9873224001.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202306020110	ND
2	05/06/2023	202306050110	ND
3	08/06/2023	202306080110	ND
4	12/06/2023	202306120110	ND
5	15/06/2023	202306150110	ND
6	23/06/2023	202306230110	ND
7	26/06/2023	202306260110	ND
8	30/06/2023	202306300110	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3(3B)], [Part-II-sec-30]] 16.11.2009, (N)-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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced or used in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for enforcement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any sample about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the invoice only.
If you have any complaint/feedback regarding the sample analysis/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013552273

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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
Guest House
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/06/2023	TC636623000002208F	34.50	34.10	17.50	22.40	ND
2	05/06/2023	TC636623000002246F	26.90	38.50	18.50	30.40	ND
3	08/06/2023	TC636623000002297F	30.10	49.10	14.70	34.50	ND
4	12/06/2023	TC636623000002382F	31.50	43.40	16.40	28.50	ND
5	15/06/2023	TC636623000002462F	23.50	45.50	17.50	33.40	ND
6	23/06/2023	TC636623000002586F	22.50	52.10	19.40	29.40	ND
7	26/06/2023	TC636623000002678F	25.10	30.10	13.10	32.10	ND
8	30/06/2023	TC636623000002805F	29.40	43.20	20.10	35.40	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 (30)], [Part-II-sec.-3(i)] 18.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results mentioned in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of the report. Your liability remains. Laboratories is limited to the extent of the test only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9970940991

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202306020111	ND
2	05/06/2023	202306050111	ND
3	08/06/2023	202306080111	ND
4	12/06/2023	202306120111	ND
5	15/06/2023	202306150111	ND
6	23/06/2023	202306230111	ND
7	26/06/2023	202306260111	ND
8	30/06/2023	202306300111	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-II-sec.-30] 16.11.2009, ND-Not Detected,
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions,
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for quality of report. The results contained in the test report are valid only for the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for enforcement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-111-2465597, +91-9872823083.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: **06/06/2023**

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/06/2023	TC636623000002209F	34.20	54.40	18.60	30.10	ND
2	05/06/2023	TC636623000002247F	36.80	59.20	19.40	34.50	ND
3	08/06/2023	TC636623000002296F	29.40	47.50	17.40	33.70	ND
4	12/06/2023	TC636623000002383F	35.40	50.20	20.10	25.60	ND
5	15/06/2023	TC636623000002463F	33.50	55.20	14.80	23.50	ND
6	23/06/2023	TC636623000002587F	31.20	58.40	16.50	35.50	ND
7	26/06/2023	TC636623000002679F	27.40	62.10	15.90	36.40	ND
8	30/06/2023	TC636623000002806F	36.40	45.70	13.50	37.50	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (39)], [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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for reproduction or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid for the test. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email to info@nityalab.com and call at +91-191-2465597, +91-9013552273

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202306020112	ND
2	05/06/2023	202306050112	ND
3	08/06/2023	202306080112	ND
4	12/06/2023	202306120112	ND
5	15/06/2023	202306150112	ND
6	23/06/2023	202306230112	ND
7	26/06/2023	202306260112	ND
8	30/06/2023	202306300112	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, (Rule 3(3B)) (Part-3-sec-3(i)) 15.11.2009, ND-Not Detected,
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions,
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be re-produced except in full, without written approval of the laboratory. This report is intended only for your guidance and neither legal evidence nor for enforcement. This report shall not be reproduced without the written approval of the organization. Sample will be destroyed within 10 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8872414880

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/06/2023	TC636623000002210F	34.20	57.60	14.20	29.10	ND
2	05/06/2023	TC636623000002248F	33.10	62.10	16.10	25.70	ND
3	08/06/2023	TC636623000002299F	25.40	62.40	18.20	30.40	ND
4	12/06/2023	TC636623000002384F	29.40	56.90	19.50	28.40	ND
5	15/06/2023	TC636623000002464F	23.70	61.10	21.50	27.40	ND
6	23/06/2023	TC636623000002588F	21.20	62.70	13.10	32.40	ND
7	26/06/2023	TC636623000002680F	31.10	54.70	15.40	29.40	ND
8	30/06/2023	TC636623000002807F	26.50	60.10	20.10	26.40	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-VI, [Rule 3(36)], [Part-II-sec-3(i)] 18.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample collection/testing/report, please email us at info@nityalab.com and call at +91-191-2465597, +91-9916648897

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202306020113	ND
2	05/06/2023	202306050113	ND
3	08/06/2023	202306080113	ND
4	12/06/2023	202306120113	ND
5	15/06/2023	202306150113	ND
6	23/06/2023	202306230113	ND
7	26/06/2023	202306260113	ND
8	30/06/2023	202306300113	ND
Test Method			PID Based Methane Analyser

Remark:

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to service amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8873929061.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/06/2023	TC636623000002211F	28.40	36.80	22.10	28.40	ND
2	05/06/2023	TC636623000002249F	34.10	40.10	28.40	27.90	ND
3	08/06/2023	TC636623000002300F	22.10	44.50	32.10	26.80	ND
4	12/06/2023	TC636623000002385F	19.50	54.20	35.40	25.90	ND
5	15/06/2023	TC636623000002465F	27.10	57.10	34.10	32.40	ND
6	23/06/2023	TC636623000002589F	33.10	49.20	29.40	32.40	ND
7	26/06/2023	TC636623000002581F	30.20	52.80	33.40	34.10	ND
8	30/06/2023	TC636623000002808F	29.50	49.30	32.60	31.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPEC Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is issued only for your guidance and not for legal purpose or for enforcement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Testability of Nitya Laboratories is limited to those listed in the report only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email to info@nityalab.com and call at +91-191-2465597, +91-9872240443

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202306020114	ND
2	05/06/2023	202306050114	ND
3	08/06/2023	202306080114	ND
4	12/06/2023	202306120114	ND
5	15/06/2023	202306150114	ND
6	23/06/2023	202306230114	ND
7	26/06/2023	202306260114	ND
8	30/06/2023	202306300114	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (2B)], [Part-II-sec.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced or used in full without the written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 90 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid for the test only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email to info@nityalab.com and call at +91-191-2465597. +91-9973604360

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/06/2023	TC636623000002212F	25.10	33.70	14.10	23.50	ND
2	05/06/2023	TC636623000002250F	26.10	36.40	17.40	25.60	ND
3	08/06/2023	TC636623000002301F	37.80	33.40	19.80	28.70	ND
4	12/06/2023	TC636623000002386F	28.40	29.90	20.10	34.10	ND
5	15/06/2023	TC636623000002466F	29.40	78.10	13.20	35.10	ND
6	23/06/2023	TC636623000002590F	32.40	39.90	16.40	30.20	ND
7	26/06/2023	TC636623000002682F	33.50	34.60	17.60	33.40	ND
8	30/06/2023	TC636623000002809F	32.10	33.40	21.10	31.40	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 Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. The report is provided only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send us email at info@nityalab.com and call at +91-191-2465597, +91-9872604893

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202306020115	ND
2	05/06/2023	202306050115	ND
3	08/06/2023	202306080115	ND
4	12/06/2023	202306120115	ND
5	15/06/2023	202306150115	ND
6	23/06/2023	202306230115	ND
7	26/06/2023	202306260115	ND
8	30/06/2023	202306300115	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2008, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for enforcement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample collection/test/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9989999999

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: **06/06/2023**

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/06/2023	TC636623000002213F	32.40	30.10	18.50	27.80	ND
2	05/06/2023	TC636623000002251F	32.70	25.60	23.40	29.40	ND
3	08/06/2023	TC636623000002302F	33.40	32.40	20.50	34.80	ND
4	12/06/2023	TC636623000002387F	25.70	36.10	15.60	36.80	ND
5	15/06/2023	TC636623000002467F	28.10	39.20	17.80	24.50	ND
6	23/06/2023	TC636623000002591F	27.10	30.80	19.80	27.90	ND
7	26/06/2023	TC636623000002683F	29.10	35.10	24.50	25.60	ND
8	30/06/2023	TC636623000002810F	30.20	33.10	19.90	22.80	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is provided only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only. If you have any complaints/feedback regarding this sample collection/testing/turnaround, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	02/06/2023	202306020116	ND
2	05/06/2023	202306050116	ND
3	08/06/2023	202306080116	ND
4	12/06/2023	202306120116	ND
5	15/06/2023	202306150116	ND
6	23/06/2023	202306230116	ND
7	26/06/2023	202306260116	ND
8	30/06/2023	202306300116	ND
Test Method			PID Based Methane Analyser

Remark:

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. Test report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid.
If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at 011-261346661, 011-26134662

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: **06/06/2023**

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	02/05/2023	TC636623000002214F	30.10	30.40	20.50	29.10	ND
2	05/05/2023	TC636623000002252F	28.90	34.50	22.80	35.20	ND
3	08/05/2023	TC636623000002303F	30.10	35.70	24.50	37.50	ND
4	12/05/2023	TC636623000002388F	33.40	51.20	25.90	34.40	ND
5	15/05/2023	TC636623000002468F	27.90	45.80	15.50	26.50	ND
6	23/05/2023	TC636623000002592F	26.10	40.20	16.40	25.60	ND
7	26/05/2023	TC636623000002684F	28.40	48.60	17.10	26.80	ND
8	30/05/2023	TC636623000002811F	29.80	49.20	17.90	26.90	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (3B)), (Part-II-sec.-3(i)) 18.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only.
If you have any complaint/feedback regarding the sample collection/testing/report, please send an email to info@nityalab.com and call at +91-191-2465597, +91-9973300003

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/06/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202306020117	ND
2	05/06/2023	202306050117	ND
3	08/06/2023	202306080117	ND
4	12/06/2023	202306120117	ND
5	15/06/2023	202306150117	ND
6	23/06/2023	202306230117	ND
7	26/06/2023	202306260117	ND
8	30/06/2023	202306300117	ND
Test Method			IRID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-II-sec.-3(i)] 15.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for correct result. The results contained in this report are valid only for the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your reference and should not be used for legal purposes or for advertisement. The report shall not be reproduced except in full without the written approval of the laboratory. Sample will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be submitted in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com or call at +91-191-2465597.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results declared in the test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is prepared only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597. +91-9872822982.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: TC638623000002662F-2663F
Test Report Date: 08/07/2023

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : **1.0 Liter, Pet Bottle(Each)**
Sample Received at Lab : **29/06/2023**
Test Started On : **29/06/2023**
Test Completed On : **05/07/2023**
Method of Sampling : **SOP/B/D-3**
Date of Sampling : **26/06/2023**
Monitoring Conducted By : **Mr. Shridhar**
Sample Description : **W-1: STP O/L of Admin Building**
W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	7.55	7.78	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	39	48	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	60	30	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	15	7	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	343	503	<1000	IS:1622



(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to invoice amount only.
If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924923.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Surface Water



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for content of report. The results mentioned in this test report related only to the sample tested. Test report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed within 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-1292460097, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: **TC636623000002859F-2661F**
Test Report Date: **06/07/2023**

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : **3.0 Liter, Sterilized Pet Bottle (Each)**
Sample Received at Lab : **29/06/2023**
Test Started On : **29/06/2023**
Test Completed On : **05/07/2023**
Method of Sampling : **SOP/B/D-3**
Date of Sampling : **26/06/2023**
Monitoring Conducted By : **Mr. Shridhar**
Sample Description : **SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate**

Analysis Report

Sr. No.	Parameters	Unit	Test Results			Protocol
			SW-1	SW-2	SW-3	
1	pH	-	7.75	8.15	7.58	IS:3025 (P-11)
2	Temperature	°C	26.3	27	26.9	IS:3025 (P-9)
3	Electrical Conductivity	µs/cm	380	440	410	IS:3025 (P-14)
4	Turbidity	NTU	<1	<1	<1	APHA 23 rd Ed.
5	Total Dissolved Solids	mg/l	230	270	250	IS:3025 (P-16)
6	Sulphate as SO ₄	mg/l	25.10	26.00	25.70	APHA 23 rd Ed.
7	Nitrates as NO ₃	mg/l	1.05	1.18	0.99	IS:3025 (P-34)
8	Total Ammonia	mg/l	ND	ND	ND	IS:3025 (P-34)
9	Total Suspended Solids	mg/l	8	5	10	IS:3025 (P-17)
10	Dissolved Oxygen as DO	mg/l	6.8	6.2	6.4	IS:3025 (P-38)
11	Biological Oxygen Demand	mg/l	14	17	11	IS:3025 (P-44)
12	Chemical Oxygen Demand	mg/l	60	80	50	IS:3025 (P-58)
13	Copper as Cu	mg/l	ND	ND	ND	APHA 23 rd Ed.
14	Iron (as Fe)	mg/l	0.60	0.85	0.52	APHA 23 rd Ed.
15	Zinc as Zn	mg/l	0.35	0.46	0.29	APHA 23 rd Ed.
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.
19	Cadmium as Cd	mg/l	ND	ND	ND	APHA 23 rd Ed.
20	Faecal Coliform*	MPN/100ml	219	366	281	IS:1622

Remark:
DL-Detection Limit

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230118-120
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : 3.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate

Analysis Report

Sr. No.	Parameters	Unit	Test Results			Protocol
			SW-1	SW-2	SW-3	
1	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.
2	Chlorophyll A	mg/l	1.10	0.801	0.668	APHA 23 rd Ed.
3	Phaeophytin	mg/m ³	18.30	18.68	18.80	APHA 23 rd Ed.
4	Salinity	PPT	0.271	0.310	0.290	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	2.20	3.40	1.98	IS:3025 (P-34)
7	Inorganic Phosphate	mg/l	0.21	0.46	0.36	IS:3025 (P-31)
8	Total Phosphate as P	mg/l	0.36	0.85	0.74	IS:3025 (P-31)

Remark:
DL-Detection Limit

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com or call at +91-191-2465597, +91-9872343661.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230118-120
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Surface Water**
Sample Quantity & Packaging : 3.0 Liter, Plastic Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate
Analysis Report

Sr. No.	Parameters	Test Results			Protocol
		SW-1	SW-2	SW-3	
1	Phytoplankton* (64 um mesh)				
	Biomass	3.6	2.1	2.5	APHA 23 rd Ed.
	Diversity	2.1	2.8	3.1	NL/SOP/MB/PHP/31
	Species	Actinastrum aciculase ,Closterium lunula	Anabaena circinalis ,Fragilaria virescens	Merismopedia minima, Navicula anglica	APHA 23 rd Ed.
2	Zooplankton* (200 um mesh)				
	Biomass	0.034	0.045	0.029	APHA 23 rd Ed.
	Diversity	1.2	1.9	1.5	NL/SOP/MB/ZP/30
	Species	Epiphane Brachinous nilsoni, Globigerina bulloides	Cerodaphnia cornuta, Synechocystis minuscule	Cyclops varicans, Paracalanus parvus,	APHA 23 rd Ed.
3	Benthos*				
	Species	Corbicula assamensis ,Corbicula striatella,	Aeshna juncea,Parreysia viridula	Musca domestica,Radiatula pachysoma	APHA 23 rd Ed.

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced without the written approval of the laboratory. This report is intended only for your guidance and is not to be used for any other purpose. The report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid only.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Marine Water



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and cannot be used for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaint regarding the sample collection/testing/test report, please email us at info@nityalab.com and call at +91-191-2465597, +91-9671804083.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

25

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

Test Report No.: 202306230121-122
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample: Marine Water
Sample Quantity & Packaging: 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab: 29/06/2023
Test Started On: 29/06/2023
Test Completed On: 05/07/2023
Method of Sampling: SOP/B/D-3
Date of Sampling: 26/06/2023
Monitoring Conducted By: Mr. Shridhar
Sample Description: MW1: Near GCB (Surface)
MW2: Near GCB (Bottom 1.5m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-1	MW-2		
1	pH	-	8.12	8.40	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	27	28	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	49365	50121	IS:3025 (P-14)	-
4	Turbidity	NTU	2.8	1.9	APHA 23rd Ed.	-
5	Total Dissolved Solids	mg/l	32087	30072	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2470	2590	APHA 23rd Ed.	-
7	Nitrates as NO ₃	mg/l	2.05	2.50	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	10	5	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.9	6.5	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	8	12	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	60	70	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.20	0.23	APHA 23rd Ed.	-
14	Iron (as Fe)	mg/l	0.07	0.12	APHA 23rd Ed.	-
15	Zinc as Zn	mg/l	0.08	0.12	APHA 23rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23rd 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 23rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23rd Ed.	-
21	Chlorophyll A	mg/l	1.3	1.5	APHA 23rd Ed.	-
22	Phaeophytin	mg/l	18.10	17.93	APHA 23rd Ed.	-
23	Salinity	PPT	34.76	33.82	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	2.30	2.70	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.10	0.15	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.30	0.32	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	221	278	IS:1822	500/100 ml

Remark: ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for content of report. The results mentioned in this test report related only to the sample tested. Test reported shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of receipt of this report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaints/feedback regarding the sample collection/analytical report, please send an email at info@nityalab.com and call at +91-191-2465597. +91-9872844491

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230121-122
Test Report Date: 05/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW1: Near GCB (Surface)
MW2: Near GCB (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-1	SW-2	
1	Phytoplankton* (64 um mesh)			
	Biomass	3.2	3.9	APHA 23 rd Ed.
	Diversity	2.6	3.0	
	Species	Coccinodiscus radiates, Peridinium elegans, Rhabdonema magnificum	Diploneis smithii, Naviculla sigma, Achnanthes stromii	
2	Zooplankton* (200 um mesh)			
	Biomass	0.029	0.034	APHA 23 rd Ed.
	Diversity	2.9	3.1	
	Species	Metacalis jorgenseni, Euchaeta marina, Metacalanus aurivilli	Aglaurea hemistoma, Eutimninus tenius, Oithona nana	
3	Benthos*			
	Species	Ancilla ampla, Syllis ferrugina, Cirratulus dasylophius	Sinum neritoiderum, Magelona cincla, Agaronia nebulosa	APHA 23 rd Ed.

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for accuracy of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid. If you have any comments/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013551021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230123-124
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW3: Near MLT Berth (Surface)
MW4: Near MLT Berth (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-3	MW-4		
1	pH	-	7.99	8.10	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	27.8	28.1	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	42712	43612	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	30132	30415	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2014	2086	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	3.4	3.9	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	4	6	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.7	6.0	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	8	10	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	30	40	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.10	0.15	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.08	0.18	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	ND	ND	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/l	2.0	1.50	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	17.42	17.93	APHA 23 rd Ed.	-
23	Salinity	PPT	31.40	31.80	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	4.10	4.20	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.04	0.052	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.06	0.70	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	345	426	IS:1622	500/100 ml

Remark:
ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report related only to the sample tested. This report shall not be reproduced or copied in full without the written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for arbitrations. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Test facility of Nitya Laboratories is located in Jammu only.
If you have any complaint/feedback regarding the service rendered by Nitya Laboratories, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9812941021

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230123-124
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW3: Near MLT Berth (Surface)
MW4: Near MLT Berth (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-3	SW-4	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	4.7	3.8	
	Diversity	2.7	2.4	
	Species	Guinardia delicatula, Ditylum brightwellii	Fragilariaopsis oceanica, Gyrodinium aureolum	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.023	0.046	
	Diversity	1.9	2.3	
	Species	Globigerina bulloides, Metacystis jorgenseni, Tortanus barbatus	Eutima tenuis, Cressia acicula, Undinula vulgaris	
3	Benthos*			APHA 23 rd Ed.
	Species	Pugilina coarctatulum, Dodecaceria capensis, Armandia intermedia	Cossura coarctata, Pinna bicolor, Mactra mactra, Pectinella armata, Nassarius dorsatus	

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report, related only to the sample tested. Test report shall not be reproduced or used for any purpose other than for which it was issued without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaint regarding the sample collection/analysis/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9912934883.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230125-126
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW5: Near Finger Jetty (Surface)
MW6: Near Finger Jetty (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-5	MW-6		
1	pH	-	8.20	8.25	IS:3025 (P-11)	8.0-9.0
2	Temperature	°C	29	30	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	46425	46982	IS:3025 (P-14)	-
4	Turbidity	NTU	2.8	3.2	APHA 23 rd Ed	-
5	Total Dissolved Solids	mg/l	30176	30538	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1941	2050	APHA 23 rd Ed	-
7	Nitrates as NO ₃	mg/l	4.13	4.56	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	10	15	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.6	6.1	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	2	4	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	30	50	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.20	0.25	APHA 23 rd Ed	-
14	Iron (as Fe)	mg/l	0.12	0.21	APHA 23 rd Ed	-
15	Zinc as Zn	mg/l	ND	ND	APHA 23 rd Ed	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed	-
21	Chlorophyll A	mg/l	1.36	1.71	APHA 23 rd Ed	-
22	Phaeophytin	mg/m ³	16.69	17.8	APHA 23 rd Ed	-
23	Salinity	PPT	30.66	30.90	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	4.50	4.90	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.20	0.25	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.30	0.30	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	240	348	IS:1622 (P-3)	500/100 ml

Remark:

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for correct analysis. The results contained in this test report related only to the sample tested. Test report shall not be reproduced or used in full without the written approval of the laboratory. This report is provided only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced or used in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid for the test only.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230125-126
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW5: Near Finger Jetty (Surface)
MW6: Near Finger Jetty (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-5	SW-6	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	1.9	2.8	
	Diversity	2.2	3.1	
	Species	Actiniscus pentasterias, Ceratium furca	Peridinium claudicans, Peridinium gracile, Tricoratum dubium	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.092	0.078	
	Diversity	1.9	1.4	
	Species	Paracandacia truncatta, Labidocera acuta, Corycaeidae catus	Penilia avirostris, Hyalocylis striata, Oncaeidae mediterranea	
3	Benthos*			APHA 23 rd Ed.
	Species	Standella nicobarica, Roeta pelicula, Jasmineira elegans, Pugilina cochlidium	Anadara granosa, Melinna cristata, Saccostrea cucullata, Dorsina trigona	

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for the results of the report. The results contained in this report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and shall be valid for legal purposes only for 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/analysis/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9870000000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report No.: 202306230127-128
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW7: Outer South-North Break Water (Surface)
MW8: Outer South-North Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-7	MW-8		
1	pH	-	8.01	8.10	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28	29	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	51415	51932	IS:3025 (P-14)	-
4	Turbidity	NTU	4.1	3.6	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	33419	33759	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2540	2610	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	5.42	5.80	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	6	8	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.9	6.2	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	4	5	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	30	40	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.20	0.25	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	ND	ND	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/l	2.1	2.3	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	17.30	17.12	APHA 23 rd Ed.	-
23	Salinity	PPT	36.10	36.45	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	5.70	5.95	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.09	0.10	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.10	0.12	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	350	253	IS:1822	500/100 ml

Remark: ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or to be used as evidence. This report shall be reproduced except in full, without written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. The liability of Nitya Laboratories is limited to the amount paid.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230127-128
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample	Marine Water
Sample Quantity & Packaging	1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab	29/06/2023
Test Started On	29/06/2023
Test Completed On	05/07/2023
Method of Sampling	SOP/B/D-3
Date of Sampling	26/06/2023
Monitoring Conducted By	Mr. Shridhar
Sample Description	MW7: Outer South-North Break Water (Surface) MW8: Outer South-North Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-7	SW-8	
1	Phytoplankton* (64 um mesh)			
	Biomass	8.4	4.2	APHA 23 rd Ed.
	Diversity	1.9	1.2	
	Species	Melosira sulcata, Bacteriastrum cosmosum, Eucampia cornuta	Bacteriastrum rhombus, Farranula carinata, Thalassiosira nitzschoides	
2	Zooplankton* (200 um mesh)			
	Biomass	0.042	0.071	APHA 23 rd Ed.
	Diversity	2.2	2.6	
	Species	Eucalanus, Calocalanus pavo, Copilia quadrata	Subeucalanus crassus, A. Longicornis Farranula carinata	
3	Benthos*			
	Species	Macoma birmanica, Paphia semirugata, isopods, Pitar albastrum	Tapes belcheri, Quadrivisia boneri, Circe scripta,	APHA 23 rd Ed.

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report relate only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced or used in any way without the written approval of the laboratory. No report shall be valid after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated within 7 days of receipt of this report. The liability of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample collection/analysis/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230129-130
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW9: Outer Mouth-East Break Water (Surface)
MW10: Outer Mouth-East Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-9	MW-10		
1	pH	-	7.89	8.05	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28	28.5	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	41513	41617	IS:3025 (P-14)	-
4	Turbidity	NTU	3.0	3.2	APHA 23 rd Ed	-
5	Total Dissolved Solids	mg/l	26983	27051	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1860	1980	APHA 23 rd Ed	-
7	Nitrates as NO ₃	mg/l	3.41	3.82	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	10	12	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.5	5.9	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	2	3	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	20	30	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed	-
14	Iron (as Fe)	mg/l	0.20	0.25	APHA 23 rd Ed	-
15	Zinc as Zn	mg/l	0.10	0.15	APHA 23 rd Ed	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed	-
21	Chlorophyll A	mg/l	1.2	1.06	APHA 23 rd Ed	-
22	Phaeophytin	mg/m ³	18.28	18.42	APHA 23 rd Ed	-
23	Salinity	PPT	29.46	29.90	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	3.50	4.01	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.10	0.12	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.15	0.18	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	212	310	IS:1622	500/100 ml

Remark:

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for errors in report. The results contained in this report relate only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and is not to be used for any other purpose. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9876543210

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230129-130
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW9: Outer South-East Break Water (Surface)
MW10: Outer South- East Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-9	SW-10	
1	Phytoplankton* (64 um mesh)			
	Biomass	3.2	4.1	APHA 23 rd Ed.
	Diversity	2.2	2.8	
	Species	Actiniscus curcubita, Triceratium dubium, Ornithocercus heteroporus	Skeletonema costatum, Noctiluca miliaris, Bacteriastrum cosmosum, Lauderia annulata	
2	Zooplankton* (200 um mesh)			
	Biomass	0.074	0.069	APHA 23 rd Ed.
	Diversity	1.70	1.58	
	Species	Pseudosagitta maxima, Salpa fusiformis, Oikopleura dioica	Oncaea conifer, Miracia efferata, Sagitta bedoti	
3	Benthos*			
	Species	apolymetis edentula, Gastropods dentalium, Pison oerstedt, Macoma candida	Anadara granosa, Prionospio cirrifera, Crassostrea cuttackensis, Lumbrinerinae simplex	APHA 23 rd Ed.

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced or republished without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaints/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9871024302.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

35

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

Test Report No.: 202306230131-132
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW11: Outer South-South Break Water (Surface)
MW12: Outer South- South Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-11	MW-12		
1	pH	-	7.70	7.90	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28	29	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	47312	47814	IS:3025 (P-14)	-
4	Turbidity	NTU	3.0	3.5	APHA 23 rd Ed	-
5	Total Dissolved Solids	mg/l	28387	29141	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1932	2001	APHA 23 rd Ed	-
7	Nitrates as NO ₃	mg/l	2.4	2.6	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.10	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	5	3	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.6	6.0	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	8	10	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	40	50	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	ND	ND	APHA 23 rd Ed	-
14	Iron (as Fe)	mg/l	0.20	0.30	APHA 23 rd Ed	-
15	Zinc as Zn	mg/l	0.11	0.12	APHA 23 rd Ed	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed	-
17	Arsenic as As	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed	-
18	Lead as Pb	mg/l	ND [DL- 0.01]	ND [DL- 0.01]	APHA 23 rd Ed	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed	-
21	Chlorophyll A	mg/l	1.4	1.72	APHA 23 rd Ed	-
22	Phaeophytin	mg/m ³	18.32	18.89	APHA 23 rd Ed	-
23	Salinity	PPT	29.45	29.90	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	2.50	2.75	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.09	0.11	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.12	0.13	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	384	410	IS:1822 (P-31)	500/100 ml

Remark:

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report refer only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for enforcement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to insured amount only. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8072323232

CORPORATE OFFICE & CENTRAL LABORATORIES :-

4 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230131-132
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW11: Outer South-South Break Water (Surface)
MW12: Outer South- South Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-11	SW-12	
1	Phytoplankton* (64 um mesh)			
	Biomass	3.7	2.6	APHA 23 rd Ed.
	Diversity	2.9	2.1	
	Species	Dinophysisovum, Thalassiosira subtilis, Amphora decussata	Thalassiosira favus, Pyrocystis fusiformis, Navicula clavata, Oscillatoria acutissima	
2	Zooplankton* (200 um mesh)			
	Biomass	0.096	0.076	APHA 23 rd Ed.
	Diversity	2.4	2.20	
	Species	Peridimenes imperator, Bathynomus doederleinii, Acartidae erythraea	Farranula carinata, Macrocypridina castanea, Hyalocylis striata	
3	Benthos*			
	Species	Pharella javanica, Cossure coaste, Maldanids, Solen brevis, Potamilla ehleri	Laternula anatine, Portula tubularia, Siliqua radiata, Laevicardium apertum	APHA 23 rd Ed

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced except in full, without written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 1 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only.
If you have any complaint/feedback regarding the sample collection/delivered report, please email us at info@nityalab.com and call at +91 191 2465597. E-mail us at info@nityalab.com

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Marine Sediment



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about the report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample tested/analyzed/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9876543210.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202306230133-136
Test Report Date: 06/07/2023

Sample Particulars

Nature of the Sample : **Marine Sediment Quality**
Sample Quantity & Packaging : 1.0 Kg. Pet Bottle (Each)
Sample Received at Lab : 29/06/2023
Test Started On : 29/06/2023
Test Completed On : 05/07/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 26/06/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : S1: Near Finger Jetty
S2-Near Marine Liquid Terminal (MLT)
S3- Near General Cargo Berth
S4-Creek Mouth

Analysis Report

Sr. No.	Parameters	Unit	Test Results			
			S1	S2	S3	S4
1	Particle Size	mm	0.05	0.04	0.03	0.02
2	Organic Carbon	%	24.38	38.54	21.13	31.21
3	Organic Nitrogen	%	87.26	72.12	92.17	78.14
4	Copper as Cu	mg/kg	5.28	7.39	4.10	2.18
5	Lead as Pb	mg/kg	2.17	3.32	3.17	2.87
6	Cadmium as Cd	mg/kg	ND	ND	ND	ND
7	Mercury	mg/kg	ND	ND	ND	ND
8	Arsenic	mg/kg	ND	ND	ND	ND

Remark:
ND-Not Detected



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility of quality of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced or used in any form without the written approval of the laboratory. The report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample collection/testing/report, please send an email to info@nityalab.com and call at +91-191-2465597, +91-9013552273

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: July 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Effluent (Sewage) Monitoring	18-19



CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Ambient Air Quality Monitoring



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-987304081

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 05/08/2023

2

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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002845F	21.20	56.40	12.90	24.10	ND
2	07/07/2023	TC636623000002922F	24.25	52.20	11.60	22.30	ND
3	10/07/2023	TC636623000002965F	17.60	51.40	8.50	27.40	ND
4	14/07/2023	TC636623000003032F	18.40	56.40	10.10	19.20	ND
5	17/07/2023	TC636623000003109F	27.70	52.10	13.80	28.10	ND
6	21/07/2023	TC636623000003247F	18.60	55.40	10.40	29.10	ND
7	24/07/2023	TC636623000003270F	17.80	57.20	9.10	20.40	ND
8	28/07/2023	TC636623000003347F	22.60	51.96	11.20	27.10	ND
9	31/07/2023	TC636623000003369F	21.90	48.40	12.10	28.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule VI [Rule 3 (38)] [Part-I sec-3(i)] 16.11.2006; 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report related only to the sample tested. This report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee only. If you have any complaint/feedback regarding the sample analysis/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873646031.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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

Main Gate

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/07/2023	202307030110	ND
2	07/07/2023	202307070110	ND
3	10/07/2023	202307100110	ND
4	14/07/2023	202307140110	ND
5	17/07/2023	202307170110	ND
6	21/07/2023	202307210110	ND
7	24/07/2023	202307240110	ND
8	28/07/2023	202307280110	ND
9	31/07/2023	202307310110	ND
Test Method			PID Based Methane Analyser

Remark:

NAQS: National Ambient Air Quality Standards, Schedule-VII (Rule 3 (3B)) (Part-II-sec-3(i)) 18.11.2009, ND: Not Detected.
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reprinted except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reprinted except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount received only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-91-2465597, +91-9873026093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023



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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002846F	28.20	28.50	11.70	18.20	ND
2	07/07/2023	TC636623000002923F	20.40	32.50	12.40	24.60	ND
3	10/07/2023	TC636623000002966F	24.60	43.10	9.10	28.10	ND
4	14/07/2023	TC636623000003033F	25.10	36.40	10.90	22.30	ND
5	17/07/2023	TC636623000003110F	17.40	39.40	11.40	27.10	ND
6	21/07/2023	TC636623000003248F	16.50	48.10	13.20	23.10	ND
7	24/07/2023	TC636623000003271F	19.50	24.50	8.50	26.40	ND
8	28/07/2023	TC636623000003348F	23.60	37.10	14.20	29.40	ND
9	31/07/2023	TC636623000003370F	22.70	36.20	15.20	28.50	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B), [Part-3-sec-30]] 18.11.2009; ND-Not Detected.
DL-Detection Limit: the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



TC-6366



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: This laboratory accepts the responsibility for validity of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written consent of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee. If you have any complaint/feedback regarding the sample collection/test/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA
+91-129-2241021 +91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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	Concentration
			Methane (%)
1	03/07/2023	202307030111	ND
2	07/07/2023	202307070111	ND
3	10/07/2023	202307100111	ND
4	14/07/2023	202307140111	ND
5	17/07/2023	202307170111	ND
6	21/07/2023	202307210111	ND
7	24/07/2023	202307240111	ND
8	28/07/2023	202307280111	ND
9	31/07/2023	202307310111	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-3-sec.-30] 18.11.2009, ND-Not Detected.
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

NITYA LABORATORIES
AUTORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples shall be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9877024021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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
Admin Building
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002847F	29.80	48.20	12.50	24.10	ND
2	07/07/2023	TC636623000002924F	30.20	53.10	13.40	28.10	ND
3	10/07/2023	TC636623000002967F	23.20	41.20	11.20	27.10	ND
4	14/07/2023	TC636623000003034F	29.10	45.00	14.40	19.10	ND
5	17/07/2023	TC636623000003111F	27.10	49.10	9.80	17.40	ND
6	21/07/2023	TC636623000003249F	26.10	52.40	10.20	29.10	ND
7	24/07/2023	TC636623000003272F	21.10	56.10	10.00	30.10	ND
8	28/07/2023	TC636623000003349F	30.20	39.40	8.80	31.20	ND
9	31/07/2023	TC636623000003371F	29.60	42.70	9.90	32.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CFCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, (Rule 3 (3)(i), (Part-I-sec-3(i)) 18.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB Central Pollution Control Board.



TC-6366



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose in the advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples shall be destroyed after 30 days from the date of receipt of test certificate unless otherwise specified. Any comments about the report should be communicated in writing within 7 days of receipt of this report. Total liability of Nitya Laboratories is limited to the amount of test fee. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9672629502.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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
: Admin Building
: IS 5182 (Part 14)
: Mr. Shridhar
: 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/07/2023	202307030112	ND
2	07/07/2023	202307070112	ND
3	10/07/2023	202307100112	ND
4	14/07/2023	202307140112	ND
5	17/07/2023	202307170112	ND
6	21/07/2023	202307210112	ND
7	24/07/2023	202307240112	ND
8	28/07/2023	202307280112	ND
9	31/07/2023	202307310112	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII (Part-I) (Rule 3 (3B)) (Part-II-sec-3(i)) 10.11.2009, 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reissued or used in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reissued except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of test. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9879249000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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
Signal Station
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002848F	25.42	44.20	12.32	22.13	ND
2	07/07/2023	TC636623000002925F	22.45	52.39	11.40	18.40	ND
3	10/07/2023	TC636623000002968F	18.40	50.30	13.20	21.32	ND
4	14/07/2023	TC636623000003035F	20.40	47.40	12.80	18.74	ND
5	17/07/2023	TC636623000003112F	15.70	53.20	15.10	18.96	ND
6	21/07/2023	TC636623000003250F	13.50	55.30	7.30	25.45	ND
7	24/07/2023	TC636623000003273F	22.32	44.25	12.70	26.40	ND
8	28/07/2023	TC636623000003350F	16.42	47.90	17.50	20.12	ND
9	31/07/2023	TC636623000003372F	15.39	50.23	14.10	21.45	ND
NAAQM Standards			50	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-I sec-3(i)] 18.11.2009, ND=Not Detected.
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analyzed within Seven days from the date of sampling. CPCB: Central Pollution Control Board



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report related only to the sample tested. This report shall not be reproduced, stored in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount of test fee. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9877004097.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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
Signal Station
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/07/2023	202307030113	ND
2	07/07/2023	202307070113	ND
3	10/07/2023	202307100113	ND
4	14/07/2023	202307140113	ND
5	17/07/2023	202307170113	ND
6	21/07/2023	202307210113	ND
7	24/07/2023	202307240113	ND
8	28/07/2023	202307280113	ND
9	31/07/2023	202307310113	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS, National Ambient Air Quality Standards; Schedule-VII (Rule 3 (3B)) (Part-II-sec.30) 16.11.2009, ND-Not Detected.
DL, Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The signatory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced or used in full without the written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced or used in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91 191 2465597, +91 9873024902

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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**

: **Finger Jetty**

: **IS 5182 (Part 14)**

: **Mr. Shridhar**

: **24 Hrs.**

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002849F	21.42	26.12	16.10	26.42	ND
2	07/07/2023	TC636623000002926F	28.30	34.20	20.41	15.35	ND
3	10/07/2023	TC636623000002969F	15.10	32.10	25.40	17.10	ND
4	14/07/2023	TC636623000003036F	14.10	44.10	18.26	14.30	ND
5	17/07/2023	TC636623000003113F	20.50	45.90	28.70	25.20	ND
6	21/07/2023	TC636623000003251F	28.20	44.82	23.60	23.45	ND
7	24/07/2023	TC636623000003274F	24.30	41.10	22.40	28.40	ND
8	28/07/2023	TC636623000003351F	23.10	34.70	17.15	27.94	ND
9	31/07/2023	TC636623000003373F	20.45	30.10	18.26	24.15	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remarks:

NAAQS: National Ambient Air Quality Standards, Schedule-VII (Rule 3 (2B)) (Part-II-sec.3(i)) 18.11.2009, ND:Not Detected, OL:Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reissued except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee paid. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9778200023

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



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

Test Report Date: 05/08/2023

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
- : Finger Jetty
- : IS 5182 (Part 14)
- : Mr. Shridhar
- : 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/07/2023	202307030114	ND
2	07/07/2023	202307070114	ND
3	10/07/2023	202307100114	ND
4	14/07/2023	202307140114	ND
5	17/07/2023	202307170114	ND
6	21/07/2023	202307210114	ND
7	24/07/2023	202307240114	ND
8	28/07/2023	202307280114	ND
9	31/07/2023	202307310114	ND
Test Method			PID Based Methane Analyser

Remarks:

NAAQS: National Ambient Air Quality Standards; Schedule-vii, [Rule 3 (30)] [Part II sec. 3a] 18.11.2006, 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report issued only in the written format. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reissued except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872824093.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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
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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002850F	18.15	34.54	12.10	17.54	ND
2	07/07/2023	TC636623000002927F	20.03	27.16	14.54	17.93	ND
3	10/07/2023	TC636623000002970F	28.43	27.40	13.93	20.54	ND
4	14/07/2023	TC636623000003037F	21.89	21.65	14.38	28.94	ND
5	17/07/2023	TC636623000003114F	22.46	26.64	10.00	24.59	ND
6	21/07/2023	TC636623000003252F	25.93	24.69	11.23	23.54	ND
7	24/07/2023	TC636623000003275F	23.14	21.44	11.54	26.54	ND
8	28/07/2023	TC636623000003352F	15.45	24.46	13.26	18.26	ND
9	31/07/2023	TC636623000003374F	19.70	29.45	18.45	19.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 C PCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule VI, (Rule 3 (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.



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full without written approval of this laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the service collection/analytical report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-907304003.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA
+91-129-2241021 +91-9013591021, +91-9013552273 labsnitya@gmail.com www.nityalab.com

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

Test Report Date: 05/08/2023

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
General Cargo Berth
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/07/2023	202307030115	ND
2	07/07/2023	202307070115	ND
3	10/07/2023	202307100115	ND
4	14/07/2023	202307140115	ND
5	17/07/2023	202307170115	ND
6	21/07/2023	202307210115	ND
7	24/07/2023	202307240115	ND
8	28/07/2023	202307280115	ND
9	31/07/2023	202307310115	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (3B)), (Part-I-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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory assumes the responsibility for content of report. The results contained in the test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to amount paid only. If you have any complaint/feedback regarding the sample collection/for highest report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-887-2024693

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

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
Car Parking
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002851F	25.35	28.41	15.95	21.10	ND
2	07/07/2023	TC636623000002928F	24.30	15.32	18.30	17.76	ND
3	10/07/2023	TC636623000002971F	22.30	25.65	18.70	27.44	ND
4	14/07/2023	TC636623000003038F	20.94	23.69	12.90	27.90	ND
5	17/07/2023	TC636623000003115F	18.76	30.50	15.80	13.51	ND
6	21/07/2023	TC636623000003263F	21.47	25.20	20.45	15.59	ND
7	24/07/2023	TC636623000003276F	19.98	31.50	19.20	17.48	ND
8	28/07/2023	TC636623000003363F	20.45	24.60	21.70	22.35	ND
9	31/07/2023	TC636623000003375F	17.30	28.30	20.05	12.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CFCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (2B)], [Part-I-sec-2(i)] 16.11.2006. 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. CFCB-Central Pollution Control Board.



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The signatory accepts the responsibility for content of report. The results contained in the test report should only be for sample tested. Test report shall not be reproduced in any form without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Sample will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount only. If you have any complaint/feedback regarding the sample submitted for testing report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872824000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSHI VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

15

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

- Ambient Air Quality Monitoring
- To Check the Pollution Load
- Car Parking
- IS 5182 (Part 14)
- Mr. Shridhar
- 24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/07/2023	202307030116	ND
2	07/07/2023	202307070116	ND
3	10/07/2023	202307100116	ND
4	14/07/2023	202307140116	ND
5	17/07/2023	202307170116	ND
6	21/07/2023	202307210116	ND
7	24/07/2023	202307240116	ND
8	28/07/2023	202307280116	ND
9	31/07/2023	202307310116	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS - National Ambient Air Quality Standards, Schedule-VII (Rule 5 (III)) (Part II sec-3(1)) 10.11.2009, 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report issued only in the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to amount only.
If you have any complaints/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873024932

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/08/2023

16

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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/07/2023	TC636623000002852F	23.10	24.60	15.40	23.60	ND
2	07/07/2023	TC636623000002929F	22.40	28.10	17.20	29.40	ND
3	10/07/2023	TC636623000002972F	24.10	30.40	18.20	31.20	ND
4	14/07/2023	TC636623000003039F	27.40	46.40	19.30	28.40	ND
5	17/07/2023	TC636623000003116F	21.50	39.40	10.10	20.40	ND
6	21/07/2023	TC636623000003254F	19.40	34.10	10.20	19.50	ND
7	24/07/2023	TC636623000003277F	22.40	43.10	11.30	20.20	ND
8	28/07/2023	TC636623000003354F	20.60	40.10	12.90	21.40	ND
9	31/07/2023	TC636623000003376F	21.40	39.80	10.70	20.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark: NAAQS: National Ambient Air Quality Standards

Remarks:

IAQS: National Ambient Air Quality Standards, Schedule-V, (Rule 3 (3B)) (Part-I sec-3(i)) 18.11.2006, 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)

NOTE: The laboratory accepts the responsibility for content of report. The results obtained in this test report related only to the samples tested. Test results that are not re-produced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test report unless otherwise specified. All comments about this report should be communicated in writing within 7 days of issue of this report. Test history of historical specimens is maintained internally only. If you have any complaint/feedback regarding the sample collection/testing/lab report, please mail us at info@syndex.com and call at +91-11-22655001. +91-9727026090.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

☎ +91-129-2241021

+91-9013591021, +91-9013552273

■ labsnitya@gmail.com

© www.nityalab.com

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

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

Test Report Date: 05/08/2023

17

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
			Methane (%)
1	03/07/2023	202307030117	ND
2	07/07/2023	202307070117	ND
3	10/07/2023	202307100117	ND
4	14/07/2023	202307140117	ND
5	17/07/2023	202307170117	ND
6	21/07/2023	202307210117	ND
7	24/07/2023	202307240117	ND
8	28/07/2023	202307280117	ND
9	31/07/2023	202307310117	ND
Test Method			PID Based Methane Analyser

Remark:

MAAQSS: National Ambient Air Quality Standards: Schedule-VII, [Part II (sec-3)] 16.11.2008. ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report related only to the samples tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of report unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Time liability of Nitya Laboratories is limited to stated period only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9879304003

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report issued only to the sample tested. Test report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount received only. If you have any complaint/feedback regarding the sample collected/testing/test report, please email at info@nityalab.com and call at +91-191-2465597, +91-987-862899

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: TC636623000003345F-3346F
Test Report Date: 05/08/2023

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)
Sample Received at Lab : 29/07/2023
Test Started On : 29/07/2023
Test Completed On : 04/08/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 27/07/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : W-1: STP O/L of Admin Building
W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	7.90	7.50	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	170	350	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	50	30	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	15	8	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	515	609	<1000	IS:1622


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)




(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your purpose and not for other purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 10 days of issue of this report. The liability of Nitya Laboratories is limited to the amount of test fee. If you have any complaints/feedback regarding the sample collected/testing/test report, please email at info@nityalab.com and call at +91-191-2465597, +91-9879826003.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: August 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Effluent (Sewage) Monitoring	18-19



Test Reports of Ambient Air Quality Monitoring


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to cost of test only. If you have any complaint/feedback regarding the sample without test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/2023

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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO_2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO_2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003490F	19.40	53.40	10.40	21.50	ND
2	07/08/2023	TC636623000003538F	21.50	50.10	9.40	19.90	ND
3	11/08/2023	TC636623000003573F	14.50	49.40	10.20	25.40	ND
4	14/08/2023	TC636623000003605F	16.20	54.10	8.80	17.40	ND
5	18/08/2023	TC636623000003667F	24.50	49.80	11.10	26.40	ND
6	22/08/2023	TC636623000003727F	15.90	52.40	9.60	27.40	ND
7	25/08/2023	TC636623000003812F	14.90	54.80	11.20	18.20	ND
8	29/08/2023	TC636623000003908F	19.50	48.80	10.60	25.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI [Rule 5 (3)(i)], (Part-II) sec-3(i) 19.11.2009. 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be retained after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-887-3004900

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	04/08/2023	20230804110	ND
2	07/08/2023	202308070110	ND
3	11/08/2023	202308110110	ND
4	14/08/2023	202308140110	ND
5	18/08/2023	202308180110	ND
6	22/08/2023	202308220110	ND
7	25/08/2023	202308250110	ND
8	29/08/2023	202308290110	ND
9	04/08/2023	202307310110	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS - National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2006, 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



(RAVINDER MITTAL)

NOTE: This laboratory accepts the responsibility for content of report. The results contained in this test report issued only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of date of the report. Total liability of Nitya Laboratories is limited to the amount of test fee only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872024953

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/2023

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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003491F	20.40	25.20	9.80	14.80	ND
2	07/08/2023	TC636623000003539F	18.60	30.10	10.20	22.70	ND
3	11/08/2023	TC636623000003574F	21.90	41.20	11.10	25.90	ND
4	14/08/2023	TC636623000003606F	21.40	34.20	8.90	20.50	ND
5	16/08/2023	TC636623000003668F	15.80	36.20	10.10	25.70	ND
6	22/08/2023	TC636623000003728F	14.80	43.20	11.10	21.40	ND
7	25/08/2023	TC636623000003813F	17.80	21.50	9.90	24.10	ND
8	29/08/2023	TC636623000003909F	21.50	35.40	12.20	27.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full, without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any comments/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873004093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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
			Methane (%)
1	04/08/2023	20230804111	ND
2	07/08/2023	202308070111	ND
3	11/08/2023	202308110111	ND
4	14/08/2023	202308140111	ND
5	18/08/2023	202308180111	ND
6	22/08/2023	202308220111	ND
7	25/08/2023	202308250111	ND
8	29/08/2023	202308290111	ND
Test Method			PID Based Methane Analyser

Remark:

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

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report issued only to the sample tested. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to insured amount only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873038992

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003492F	27.40	46.10	11.20	21.50	ND
2	07/08/2023	TC636623000003540F	28.10	51.20	12.50	25.60	ND
3	11/08/2023	TC636623000003575F	21.40	39.40	8.60	24.30	ND
4	14/08/2023	TC636623000003607F	27.20	43.10	13.60	16.40	ND
5	18/08/2023	TC636623000003669F	25.40	47.30	10.20	14.90	ND
6	22/08/2023	TC636623000003729F	24.80	50.20	11.20	26.40	ND
7	25/08/2023	TC636623000003814F	19.80	54.20	8.90	27.50	ND
8	29/08/2023	TC636623000003910F	28.40	37.40	9.50	29.50	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (3B), [Part-II-sec.-3(i)] 16.11.2006, 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



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for correct report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal evidence or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples shall be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only. If you have any complaints/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9877634092.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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	Concentration
			Methane (%)
1	04/08/2023	20230804112	ND
2	07/08/2023	202308070112	ND
3	11/08/2023	202308110112	ND
4	14/08/2023	202308140112	ND
5	18/08/2023	202308180112	ND
6	22/08/2023	202308220112	ND
7	25/08/2023	202308250112	ND
8	29/08/2023	202308290112	ND
Test Method			PID Based Methane Analyser

Remark: NAAQS: National Ambient Air Quality Standards; Schedule-VII (Rule 3 (3B)) (Part-I-sec.-3(i)) 16-11-2009. ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAYINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaints/feedback regarding the sample submitted/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873628093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003493F	23.40	42.20	10.8	20.10	ND
2	07/08/2023	TC636623000003541F	20.10	49.40	9.80	15.20	ND
3	11/08/2023	TC636623000003576F	19.50	47.20	11.20	19.80	ND
4	14/08/2023	TC636623000003608F	18.90	44.20	10.20	15.90	ND
5	18/08/2023	TC636623000003670F	15.10	51.20	13.20	13.60	ND
6	22/08/2023	TC636623000003730F	11.90	52.40	9.10	22.40	ND
7	25/08/2023	TC636623000003815F	20.40	41.90	11.10	24.10	ND
8	29/08/2023	TC636623000003911F	14.90	44.20	15.10	18.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPM Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark: NAAQS: National Ambient Air Quality Standards, Schedule VI (Rule 3 (3B)) (Part-I 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



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for veracity of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. The report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee only. If you have any complaints/feedback regarding the sample collection/tested report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873624083.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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
			Methane (%)
1	04/08/2023	20230804113	ND
2	07/08/2023	202308070113	ND
3	11/08/2023	202308110113	ND
4	14/08/2023	202308140113	ND
5	18/08/2023	202308180113	ND
6	22/08/2023	202308220113	ND
7	25/08/2023	202308250113	ND
8	29/08/2023	202308290113	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (39)), (Part-II-sec.-3(i)) 16.11.2009, ND-Not Detected,
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9878528282.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

iabsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/223

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				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003494F	23.10	23.30	17.50	23.20	ND
2	07/08/2023	TC636623000003542F	26.90	32.40	18.90	13.90	ND
3	11/08/2023	TC636623000003577F	13.80	30.40	23.10	15.90	ND
4	14/08/2023	TC636623000003609F	12.80	41.50	16.10	12.50	ND
5	18/08/2023	TC636623000003671F	18.70	43.40	25.50	22.40	ND
6	22/08/2023	TC636623000003731F	26.40	42.10	20.30	21.80	ND
7	25/08/2023	TC636623000003816F	22.60	39.80	19.20	25.30	ND
8	29/08/2023	TC636623000003912F	21.50	31.80	15.80	24.90	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 15.11.2008. ND-not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



TC-6366



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. The report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to cost of test only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873034090

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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
			Methane (%)
1	04/08/2023	20230804114	ND
2	07/08/2023	202308070114	ND
3	11/08/2023	202308110114	ND
4	14/08/2023	202308140114	ND
5	18/08/2023	202308180114	ND
6	22/08/2023	202308220114	ND
7	25/08/2023	202308250114	ND
8	29/08/2023	202308290114	ND
Test Method			PID Based Methane Analyser

Remark: NAAQS: National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (35), (Part-II-sec.-30)) 16.11.2009; ND-Not Detected; DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board.



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the samples tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples left for destruction after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount paid only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email to info@nityalab.com and call at +91-191-2465597, +91-987380893.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003495F	16.90	32.40	13.90	15.40	ND
2	07/08/2023	TC636623000003543F	18.50	24.90	12.10	15.20	ND
3	11/08/2023	TC636623000003578F	25.90	25.90	11.40	18.20	ND
4	14/08/2023	TC636623000003610F	19.40	19.40	12.80	26.10	ND
5	18/08/2023	TC636623000003672F	20.10	24.30	11.90	22.10	ND
6	22/08/2023	TC636623000003732F	23.10	22.30	10.20	21.50	ND
7	25/08/2023	TC636623000003817F	21.40	19.30	10.90	24.10	ND
8	29/08/2023	TC636623000003913F	13.90	22.50	12.30	16.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results mentioned in this report shall remain valid only for the samples tested. Test report shall not be reproduced except in full without the written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee. If you have any complaints/feedback regarding the service collected by the laboratory, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873646000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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
			Methane (%)
1	04/08/2023	20230804115	ND
2	07/08/2023	202308070115	ND
3	11/08/2023	202308110115	ND
4	14/08/2023	202308140115	ND
5	18/08/2023	202308180115	ND
6	22/08/2023	202308220115	ND
7	25/08/2023	202308250115	ND
8	29/08/2023	202308290115	ND
Test Method			PID Based Methane Analyser

Remark:

NAADS: 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 Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the samples tested. Test report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Your liability of Nitya Laboratories is limited to the amount only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873834003.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/2023

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	Concentration				
			Particulate Matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003496F	23.90	26.10	13.80	19.90	ND
2	07/08/2023	TC636623000003544F	22.10	14.00	16.90	16.10	ND
3	11/08/2023	TC636623000003579F	20.40	23.10	17.00	25.90	ND
4	14/08/2023	TC636623000003611F	18.90	21.10	13.20	25.10	ND
5	18/08/2023	TC636623000003673F	17.10	28.20	13.40	12.10	ND
6	22/08/2023	TC636623000003733F	19.80	23.10	18.50	13.70	ND
7	25/08/2023	TC636623000003818F	18.20	29.10	17.70	15.90	ND
8	29/08/2023	TC636623000003914F	18.90	22.40	19.90	20.50	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (28)] (Part-I-sec-3(i)) 15.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



TC-6366



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee paid. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-987904883.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/223

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
			Methane (%)
1	04/08/2023	20230804116	ND
2	07/08/2023	202308070116	ND
3	11/08/2023	202308110116	ND
4	14/08/2023	202308140116	ND
5	18/08/2023	202308180116	ND
6	22/08/2023	202308220116	ND
7	25/08/2023	202308250116	ND
8	29/08/2023	202308290116	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQSS: National Ambient Air Quality Standards, Schedule-VII, Rule 3 (3B), Part-I-sec -3(i) 15.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report relate only to the samples tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee only.
If you have any complaints/feedback regarding the sample collection/test/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873504093.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

iabsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/2023

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 (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	04/08/2023	TC636623000003497F	21.80	22.90	16.20	21.90	ND
2	07/08/2023	TC636623000003545F	20.10	26.40	15.90	27.10	ND
3	11/08/2023	TC636623000003580F	22.50	28.40	17.00	29.50	ND
4	14/08/2023	TC636623000003612F	25.50	42.80	17.80	26.80	ND
5	18/08/2023	TC636623000003674F	19.50	37.10	11.50	18.80	ND
6	22/08/2023	TC636623000003734F	17.80	32.20	11.10	17.80	ND
7	25/08/2023	TC636623000003819F	20.10	41.20	12.40	19.00	ND
8	29/08/2023	TC636623000003915F	18.90	38.90	10.90	19.50	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-VI, (Part 3 (3B)) (Part 5 (iii)-(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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample, please send an email at info@nityalab.com and call at +91-191-2465597, +91-867-3034993

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 05/09/23

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
			Methane (%)
1	04/08/2023	20230804117	ND
2	07/08/2023	202308070117	ND
3	11/08/2023	202308110117	ND
4	14/08/2023	202308140117	ND
5	18/08/2023	202308180117	ND
6	22/08/2023	202308220117	ND
7	25/08/2023	202308250117	ND
8	29/08/2023	202308290117	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (3B)] [Part-4-sec-3(i)] 16-11-2009. ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-987862893.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be held until after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fees. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-967-3004993

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No. TC636623000003736F-3737F
Test Report Date: 31/08/2023

Sample Particulars

Nature of the Sample : Wastewater (STP)
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle(Each)
Sample Received at Lab : 24/08/2023
Test Started On : 24/08/2023
Test Completed On : 30/08/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 22/08/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : W-1: STP O/L of Admin Building
W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	7.82	7.42	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	150	320	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	40	26	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	11	6	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	486	669	<1000	IS:1622



(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report relate only to the sample tested. Test report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to charged amount only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9878034093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: September 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Noise Monitoring	18-19
3	Test Reports of Effluent (Sewage) Monitoring	20-21
4	Test Reports of Surface Water Monitoring	22-25
5	Test Reports of Marine Water Monitoring	26-38
6	Test Reports of Marine Sediment Monitoring	39-40



Test Reports of Ambient Air Quality Monitoring



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid for the test. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/09/2023	TC636623000003974F	24.20	59.30	15.30	28.60	ND
2	04/09/2023	TC636623000004006F	28.70	56.40	14.90	26.30	ND
3	08/09/2023	TC636623000004043F	21.10	55.20	11.20	30.20	ND
4	11/09/2023	TC636623000004141F	23.90	59.20	13.40	23.70	ND
5	15/09/2023	TC636623000004250F	30.40	56.20	17.50	32.90	ND
6	18/09/2023	TC636623000004313F	22.70	58.20	14.90	33.70	ND
7	26/09/2023	TC636623000004629F	21.90	59.20	12.90	24.60	ND
8	29/09/2023	TC636623000004694F	26.20	52.30	16.40	31.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced or copied in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal evidence or for advertisement. The report shall not be reproduced or used in full without the written approval of the organization. Samples will be retained after 30 days from the date of issue of test certificate unless otherwise specified. Also complaints about this report should be communicated in writing within 1 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee.
If you have any comments/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91 191 2465597, +91 9879904000

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	01/09/2023	202309010110	ND
2	04/09/2023	202309040110	ND
3	08/09/2023	202309080110	ND
4	11/09/2023	202309110110	ND
5	15/09/2023	202309150110	ND
6	18/09/2023	202309180110	ND
7	26/09/2023	202309260110	ND
8	29/09/2023	202309290110	ND
Test Method			PID Based Methane Analyser

Remark:

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


(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report stated only in the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and is not to be used for any other purpose. This report shall not be reproduced or used in full without the written approval of the laboratory. Sample will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total quality of Nitya Laboratories is tested regularly and only.

If you have any comments/feedback regarding the service collected/any report, please send an email at info@nityalab.com or call us at +91-191-2465597, +91-9875500000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/09/2023	TC636623000003975F	32.90	32.20	15.40	20.70	ND
2	04/09/2023	TC636623000004007F	24.80	35.70	16.90	28.30	ND
3	08/09/2023	TC636623000004044F	28.70	47.20	13.10	32.90	ND
4	11/09/2023	TC636623000004142F	29.30	41.90	14.40	26.30	ND
5	15/09/2023	TC636623000004251F	21.40	43.90	15.70	31.30	ND
6	18/09/2023	TC636623000004314F	20.90	49.20	17.90	27.90	ND
7	26/09/2023	TC636623000004630F	23.70	28.30	11.40	30.20	ND
8	29/09/2023	TC636623000004695F	27.90	41.20	18.70	33.70	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VI, (Rule 3 (2B)) (Part-II sec-3(iii) 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report should only be used for the purpose stated. This report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be retained after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaints regarding the quality of the report, please send an email to info@nityalab.com and call at +91-191-2465597, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202309010111	ND
2	05/06/2023	202309040111	ND
3	08/06/2023	202309080111	ND
4	12/06/2023	202309110111	ND
5	15/06/2023	202309150111	ND
6	23/06/2023	202309130111	ND
7	26/06/2023	202309260111	ND
8	30/06/2023	202309290111	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VI, [Rule 3 (1B)] [Part-I-sec-3(i)] 16.11.2008, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.


(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report are valid only for the samples tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for enforcement. This report shall not be reproduced except in full without the written consent of the laboratory. Sample will be retained after 10 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 10 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee.
If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at 011-191-2465597, +91-9871904000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM _{2.5}) µg/m ³	Particulate Matter (PM ₁₀) µg/m ³	Dioxide (as SO ₂) µg/m ³	Nitrogen Dioxide (as NO ₂) µg/m ³	Carbon Monoxide (as CO) mg/m ³
1	01/09/2023	TC636623000003976F	33.10	52.10	16.40	28.20	ND
2	04/09/2023	TC636623000004008F	34.20	57.40	17.80	32.10	ND
3	08/09/2023	TC636623000004045F	27.80	45.00	15.40	31.10	ND
4	11/09/2023	TC636623000004143F	33.10	48.60	18.40	23.10	ND
5	15/09/2023	TC636623000004252F	31.40	53.10	12.40	21.40	ND
6	18/09/2023	TC636623000004315F	29.50	56.90	14.80	33.90	ND
7	26/09/2023	TC636623000004631F	25.30	60.40	13.20	34.20	ND
8	29/09/2023	TC636623000004696F	34.10	43.20	12.40	35.30	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)

Remarks:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, (Rule 3 (3B)), (Part-II-sec-3(i)) 16.11.2008. ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report relate only to the sample tested. Test report shall not be reproduced except in full, without the written approval of this organization. Samples not to be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated within 7 days of date of this report. Test results of Nitya Laboratories is issued in printed format only.
Please share your comments/feedback regarding the service collected@nityalab.com or call at +91-191-2465597, +91-9013552273

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

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
Admin Building
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202309010112	ND
2	05/06/2023	202309040112	ND
3	08/06/2023	202309080112	ND
4	12/06/2023	202309110112	ND
5	15/06/2023	202309150112	ND
6	23/06/2023	202309130112	ND
7	26/06/2023	202309260112	ND
8	30/06/2023	202309290112	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQ5: National Ambient Air Quality Standards, Schedule-VI, [State 3 (38)], [Part-II sec-3(iii) 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.



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. This report is valid only for the sample tested. Test report shall not be reproduced without full, without written approval of the laboratory. This report is provided only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced without the written approval of the laboratory. Sample shall be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Liability of Nitya Laboratories is limited to the amount specified only.
If you have any commercial enquiries regarding the sample collection/analysis/report, please send an email to info@nityalab.com and call at +91-191-2465597, +91-9876543210

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM _{2.5}) µg/m ³	Particulate Matter (PM ₁₀) µg/m ³	Dioxide (as SO ₂) µg/m ³	Nitrogen Dioxide (as NO ₂) µg/m ³	Carbon Monoxide (as CO) mg/m ³
1	01/09/2023	TC636623000003977F	32.10	55.10	12.90	27.20	ND
2	04/09/2023	TC636623000004009F	31.20	60.20	14.70	23.10	ND
3	08/09/2023	TC636623000004046F	23.40	60.30	16.80	28.10	ND
4	11/09/2023	TC636623000004144F	27.80	54.30	17.20	26.90	ND
5	15/09/2023	TC636623000004253F	21.40	59.30	19.20	25.30	ND
6	18/09/2023	TC636623000004316F	19.80	60.30	12.10	30.40	ND
7	26/09/2023	TC636623000004632F	29.30	52.40	13.20	27.80	ND
8	29/09/2023	TC636623000004697F	24.90	58.10	18.40	24.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, (Rule 3 (3B), (Part-I-sec-3)(i) 16.11.2008. ND-Not Detected.
DL-Direction 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the report are valid only for the sample tested. Test report shall not be reproduced or republished without the written approval of the laboratory. The report is valid only for the purpose stated and for the period specified. This report shall not be reproduced or republished without the written approval of the laboratory. The report is valid only for the purpose stated and for the period specified. Any complaints about the report should be communicated in writing within 7 days of receipt of the report. Total liability of Nitya Laboratories is limited to the amount paid for the test. If you have any comments or queries regarding this report, please contact us at info@nityalab.com or call us at +91-191-2465597. +91-9875834000

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202309010113	ND
2	05/06/2023	202309040113	ND
3	08/06/2023	202309080113	ND
4	12/06/2023	202309110113	ND
5	15/06/2023	202309150113	ND
6	23/06/2023	202309130113	ND
7	26/06/2023	202309280113	ND
8	30/06/2023	202309290113	ND
Test Method			PID Based Methane Analyser

Remark:

NAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (2)(i), [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)

NOTE: We undertake the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced or used in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or to be advertisement. This report shall not be reproduced or used in full without the written approval of the laboratory. Samples will be destroyed after 10 days from the date of issue unless written request otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaints/queries regarding the sample tested/unintelligible report, please send an email to info@nityalab.com and call at 011-24655977, +91-9870834000

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO_2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO_2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/09/2023	TC636623000003978F	26.90	34.20	20.40	26.70	ND
2	04/09/2023	TC636623000004010F	32.40	28.10	26.90	25.40	ND
3	08/09/2023	TC636623000004047F	20.10	42.10	30.20	24.40	ND
4	11/09/2023	TC636623000004145F	17.90	52.30	33.70	23.70	ND
5	15/09/2023	TC636623000004254F	25.40	55.30	32.30	30.90	ND
6	18/09/2023	TC636623000004317F	31.30	47.20	27.40	30.70	ND
7	26/09/2023	TC636623000004633F	28.40	50.40	31.90	32.40	ND
8	29/09/2023	TC636623000004698F	26.90	47.40	30.90	29.90	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI [Rule 3 (26)], [Part-II-sec-3(i)] 16.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report related only to the sample tested. This report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of this report unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid for the analysis only.
If you have any complaint/feedback, regarding this sample or this report, please email us at info@nityalab.com and call at +91-191-2465597. +91-9873834900

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

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	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202309010114	ND
2	05/06/2023	202309040114	ND
3	08/06/2023	202309080114	ND
4	12/06/2023	202309110114	ND
5	15/06/2023	202309150114	ND
6	23/06/2023	202309130114	ND
7	26/06/2023	202309260114	ND
8	30/06/2023	202309290114	ND
Test Method			PID Based Methane Analyser

Remarks:

NAAQSS: National Ambient Air Quality Standards: Schedule-M, [Rule 3(III)], [Part-II-sec-3(i)] 18.11.2008. ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The signatory accepts the responsibility for content of report. The results contained in this report related only to the sample tested. Test report shall not be reproduced except in full without prior approval of the laboratory. This report is prepared only for your guidance and not for legal purpose or for enforcement. This report shall not be reproduced except in full without prior approval of the laboratory. Sample will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaints/queries regarding this sample without sending the report, please send an email to info@nityalab.com and call at +91 191 2465597 +91 9013591021

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/09/2023	TC636623000003979F	23.10	31.80	12.70	21.50	ND
2	04/09/2023	TC636623000004011F	24.70	34.20	15.80	23.70	ND
3	06/09/2023	TC636623000004048F	35.70	31.20	17.70	26.90	ND
4	11/09/2023	TC636623000004146F	26.10	27.80	18.20	32.30	ND
5	15/09/2023	TC636623000004255F	27.70	36.60	11.20	33.30	ND
6	18/09/2023	TC636623000004318F	30.90	37.70	14.70	28.50	ND
7	26/09/2023	TC636623000004634F	31.40	32.50	15.30	31.40	ND
8	29/09/2023	TC636623000004699F	30.70	31.40	19.70	29.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-5)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (36)], [Part-4-sec-3(i)] 16.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



NITYA: The laboratory accepts the responsibility for content of report. The results contained in the test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is checked only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to tested amount only. If you have any complaints or feedback regarding our services or technical details of report, please write to: info@nityalab.com or call us at +91-191-2465597, +91-9979310000

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Test Report No	Concentration
			Methane (%)
1	02/06/2023	202309010115	ND
2	05/06/2023	202309040115	ND
3	08/06/2023	202309080115	ND
4	12/06/2023	202309110115	ND
5	15/06/2023	202309150115	ND
6	23/06/2023	202309130115	ND
7	26/06/2023	202309260115	ND
8	30/06/2023	202309290115	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS- National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3)(i)] (Part-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)

NOTE: The signatory accepts the responsibility for content of report. The results contained in the test report related only to the sample tested. Test report shall not be reproduced or used in full without written approval of the laboratory. This report is intended only for your guidance and is not a legal document. This report should not be reproduced or used in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid. Please send an email at info@nityalab.com or call at +91-191-2465597. VET-007004000

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/09/2023	TC636623000003980F	30.20	28.40	16.40	25.20	ND
2	04/09/2023	TC636623000004012F	30.80	23.70	21.10	27.30	ND
3	08/09/2023	TC636623000004049F	31.70	30.70	18.30	32.90	ND
4	11/09/2023	TC636623000004147F	23.70	34.50	13.90	34.50	ND
5	15/09/2023	TC636623000004256F	26.90	37.20	15.30	22.90	ND
6	18/09/2023	TC636623000004319F	25.90	28.90	17.40	25.40	ND
7	26/09/2023	TC636623000004635F	27.40	33.70	22.30	23.70	ND
8	29/09/2023	TC636623000004700F	28.40	31.50	17.80	20.80	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, (Rule 3 (B)(i), (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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for content of report. The results contained in this report related only to the sample tested. Test report may not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report must not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. If the validity of Nitya Laboratories is linked to your business, please inform us immediately. If you have any comments/suggestions regarding the service, please contact us at info@nityalab.com and call at +91-191-2465597, +91-9879343000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

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	Concentration
			Methane (%)
1	02/06/2023	202309010116	ND
2	05/06/2023	202309040116	ND
3	08/06/2023	202309080116	ND
4	12/06/2023	202309110116	ND
5	15/06/2023	202309150116	ND
6	23/06/2023	202309130116	ND
7	26/06/2023	202309260116	ND
8	30/06/2023	202309290116	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VI [Rule 3-38(i)] [Part-II-sec.3(i)] 16.11.2006. ND-Not Detected.
GL-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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. This report shall not be reproduced without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated immediately within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount paid only.
If you have any complaint/feedback, please mail the complete details to info@nityalab.com and call at +91-191-2465597, +91-9873220892

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	01/09/2023	TC636623000003981F	28.40	28.50	18.30	27.80	ND
2	04/09/2023	TC636623000004013F	26.50	32.10	20.50	34.10	ND
3	08/09/2023	TC636623000004050F	28.70	34.50	22.40	35.30	ND
4	11/09/2023	TC636623000004148F	31.20	49.40	23.70	32.70	ND
5	15/09/2023	TC636623000004257F	25.10	43.70	13.90	24.70	ND
6	18/09/2023	TC636623000004320F	24.90	38.20	14.50	23.90	ND
7	26/09/2023	TC636623000004636F	26.60	46.70	15.70	24.90	ND
8	29/09/2023	TC636623000004701F	27.80	47.90	15.30	25.00	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:

NAAQM: National Ambient Air Quality Standards - Schedule-VII, (Rule 3 (iii)) (Part-II-sec-3(i)) 16.11.2009; ND-Not Detected.
DL-Detector 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)

NOTE: The laboratory accepts the responsibility for accuracy of report. The results mentioned in the report are valid only for the sample tested. This report shall not be reproduced or used in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for enforcement. This report shall not be reproduced or used in full without the written approval of this organization. Samples not to be destroyed within 30 days from the date of test certificate unless otherwise specified. Any complaint about the report should be communicated on writing within 7 days of date of this report. Liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint regarding the sample collection/testing/issue report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9876543210

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 07/10/2023

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
			Methane (%)
1	02/06/2023	202309010117	ND
2	05/06/2023	202309040117	ND
3	08/06/2023	202309080117	ND
4	12/06/2023	202309110117	ND
5	15/06/2023	202309150117	ND
6	23/06/2023	202309130117	ND
7	26/06/2023	202309260117	ND
8	30/06/2023	202309290117	ND
Test Method			PID Based Methane Analyser

Remark:

100VQS: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (3B)] [Part-3 sec-3(2)] 18.11.2008, 100-Not Detected
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions
Sample Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results obtained in this test report remain valid only for the sample tested. Test report shall not be reproduced except in full, without written approval of the signatory. This report is intended only for your reference and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the signatory. Sample will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about the report should be communicated in writing within 7 days of issue of this report. For any query or more information, contact nearest branch office. If you have any comment/feedback regarding the sample analysis/tested report, please send an email at info@nityalab.com and call us at +91-2465597, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Noise Monitoring


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for misuse of report. The results contained in this test report issued only to the sample owner. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Sample and its ownership after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 1 week of issue of this report. Test facility of Nitya Laboratories is located in Jammu-180 015. If you have any complaint/feedback regarding the sample, contact us by email at info@nityalab.com or call at +91-191-2465597. +91-9870030000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: TC536623000094175F-4182F
Test Report Date: 16/09/2023

Sample Particulars

Nature of the Sample

Parameter Tested

Instrument Used

Sampling Duration (Hrs.)

- ✓ Ambient Noise
- ✓ Noise Level, Leq dB (A)*
- ✓ Sound Level Meter
- ✓ 24 Hrs.

Analysis Report

Sr. No.	Location	Date of Sampling	Test Result dB(A) Day Time	Test Result dB(A) Night-time
1	Main Gate	13/09/2023	65.86	62.79
2	Guest House	13/09/2023	56.85	49.12
3	Admin Building	13/09/2023	60.58	55.68
4	Signal Station	13/09/2023	57.73	55.41
5	Finger Jetty	13/09/2023	59.62	56.96
6	General Cargo Berth	13/09/2023	60.14	54.56
7	Car Parking	13/09/2023	64.67	58.22
8	Fire Station	13/09/2023	62.58	55.85
Permissible Limit in *dB(A) Leq for Industrial Area			75 dB(A)	70 dB(A)

Remark:

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

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

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



NOTE: The laboratory accepts the responsibility for correct analysis. The results contained in this test report relate only to the sample tested. This report shall not be reproduced except in full without the written approval of the organization. However, we do warrant that the data of test certificate is true and correct. Any complaint about the report should be communicated to writing within 7 days of date of this report. Nitya Laboratory & Nitya Laboratories is a limited liability company only. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for content of report. The results contained in this report issued only to the sample owner. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your personal use and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples who are analyzed after the issue from the date of issue of this certificate unless otherwise specified. This complies about the report should be communicated in writing within 7 days of issue of this report. Test results of Nitya Laboratories is limited to the amount sent only. If you have any complaint/feedback regarding the sample collection/testing/test report, please email at info@nityalab.com and call at +91-191-2465597 +91-9813552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: TC636623000004171F-4172F
Test Report Date: 23/09/2023

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle(Each)
Sample Received at Lab : 16/09/2023
Test Started On : 16/09/2023
Test Completed On : 22/09/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/09/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : W-1: STP O/L of Admin Building
W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	6.70	7.09	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	50	40	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	22	21	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	5	4	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	More than 1600	More than 1600	<1000	IS:1622




(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for accuracy of report. The results contained in this report relate only to the sample tested. This report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for substantiation. This report shall not be distributed outside in full without the written approval of the organization. Samples will be retained after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid for the test. If you have any complaints/feedback regarding this sample submission/testing/report, please email or visit at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Surface Water



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced or used in any manner without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue unless certificate (unless otherwise specified) any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to actual amount only.
If you have any complaints/feedback regarding this sample without destroying the report, please send an email to info@nityalab.com or call at 191-2465597 / +91-9013591021

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: TC636623000004168F-4170F
Test Report Date: 23/09/2023

Sample Particulars

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

Surface Water

3.0 Liter, Sterilized Pet Bottle (Each)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
Mr. Shridhar
SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate

Analysis Report

Sr. No.	Parameters	Unit	Test Results			Protocol
			SW-1	SW-2	SW-3	
1	pH	-	7.50	7.22	7.85	IS:3025 (P-11)
2	Temperature	°C	30.1	29.5	30	IS:3025 (P-9)
3	Electrical Conductivity	µs/cm	39100	1600	1495	IS:3025 (P-14)
4	Turbidity	NTU	<1	<1	<1	APHA 23 rd Ed.
5	Total Dissolved Solids	mg/l	23000	980	910	IS:3025 (P-16)
6	Sulphate as SO ₄	mg/l	311	240	236	APHA 23 rd Ed.
7	Nitrates as NO ₃	mg/l	2.55	4.27	4.20	IS:3025 (P-34)
8	Total Ammonia	mg/l	0.20	ND	0.05	IS:3025 (P-34)
9	Total Suspended Solids	mg/l	20	110	35	IS:3025 (P-17)
10	Dissolved Oxygen as DO	mg/l	4.1	6.5	6.6	IS:3025 (P-38)
11	Biological Oxygen Demand	mg/l	20	3	3	IS:3025 (P-44)
12	Chemical Oxygen Demand	mg/l	110	12	11	IS:3025 (P-58)
13	Copper as Cu	mg/l	0.04	0.02	0.03	APHA 23 rd Ed.
14	Iron (as Fe)	mg/l	20.18	ND	0.04	APHA 23 rd Ed.
15	Zinc as Zn	mg/l	0.04	ND	ND	APHA 23 rd Ed.
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.
19	Cadmium as Cd	mg/l	ND	ND	ND	APHA 23 rd Ed.
20	Faecal Coliform*	MPN/100ml	212	345	278	IS:1622

Remark:
DL-Detection Limit


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)




(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the report are valid only for the sample tested. Test report shall not be reproduced in any form without written approval of the laboratory. This report is prepared only for your guidance and not for legal purposes of its addressee. The laboratory shall not be responsible for any loss or damage to the sample or to the equipment used in the laboratory. Sample will be destroyed after 30 days from the date of report unless otherwise specified. Any complaint about the report should be submitted in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid. Please send any correspondence regarding the analysis or test results to info@nityalab.com and call at +91-191-2465597, +91-9873340001.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No. 202309130110-112
Test Report Date: 23/09/2023

Sample Particulars

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

Surface Water
3.0 Liter, Sterilized Pet Bottle (Each)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
Mr. Shridhar
SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate

Analysis Report

Sr. No.	Parameters	Unit	Test Results			Protocol
			SW-1	SW-2	SW-3	
1	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.
2	Chlorophyll A	mg/m ³	1.10	0.801	0.668	APHA 23 rd Ed.
3	Phaeophytin	mg/m ³	18.30	18.68	18.80	APHA 23 rd Ed.
4	Salinity	PPT	27.5	1.278	1.220	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	2.70	4.35	4.30	IS:3025 (P-34)
7	Inorganic Phosphate	mg/l	0.22	0.26	0.20	IS:3025 (P-31)
8	Total Phosphate as P	mg/l	0.30	0.35	0.24	IS:3025 (P-31)

Remark: DL-Detection Limit


(AUTHORISED SIGNATORY)
(RHYTHM BASSON)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report, relate only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced without the written approval of the organization. Report not to be used after 90 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid for the test. If you have any complaint regarding the sample collection/transportation report, please send an email to info@nityalab.com and call at +91-191-2465597 / +91-9876543210.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130110-112
Test Report Date: 23/09/2023

Sample Particulars

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

Surface Water

3.0 Liter, Sterilized Pet Bottle (Each)
16/09/2023
16/09/2023
22/09/2023
SOP/BD-3
13/09/2023
Mr. Shridhar
SW1: Creek Mouth
SW2: Opp. to Main Gate
SW3: Opp. to West Gate
Analysis Report

Sr. No.	Parameters	Test Results			Protocol
		SW-1	SW-2	SW-3	
1	Phytoplankton* (64 um mesh)				
	Biomass	4.1	2.7	3.2	APHA 23 rd Ed.
	Diversity	2.4	1.9	2.7	NL/SOP/MB/PHP/31
	Species	Gyrosigma acuminatum, Closterium lunula, Cymbella ventricosa	Pinnularia microstauron, Synechocystis minuscula,	Merismopedia minima, Fragilaria brevistriata, Cymbella ventricosa	APHA 23 rd Ed.
2	Zooplankton* (200 um mesh)				
	Biomass	0.019	0.034	0.045	APHA 23 rd Ed.
	Diversity	1.7	2.1	2.5	NL/SOP/MB/ZP/30
	Species	Actinastrum aciculase, Bathynomus doederleinii, Paracalanus parvus	Cerodaphnia comuta, Synechocystis minuscula	Cyclops varicans, Periclimenes imperator, Bathynomus doederleinii	APHA 23 rd Ed.
3	Benthos*				
	Species	Musca domestica, Ctenophora pentinicomis	Bactis rhodani, Sympetrum flaveorum	Radiatula pachysoma, Aeshna juncea	APHA 23 rd Ed.

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report shall be valid only for the period stated. Test report shall not be reissued or voided in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for arbitration. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of report, unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount of amount received. If you have any complaint/feedback regarding the analysis, please contact us at info@nityalab.com and call us at +91-191-2465597. +91-9873334592

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Marine Water


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report valid only to the extent tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue unless notified unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of receipt of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid for the test only.
If you have any comments/feedback regarding our services, please contact us at info@nityalab.com and call at 0191-2465597, 435-2467034/035.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130121-122
Test Report Date: 23/09/2023

Sample Particulars

Nature of the Sample : **Marine Water**
Sample Quantity & Packaging : 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab : 16/09/2023
Test Started On : 16/09/2023
Test Completed On : 22/09/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/09/2023
Monitoring Conducted By : Mr. Shridhar
Sample Description : MW1: Near GCB (Surface)
MW2: Near GCB (Bottom 1.5m)
Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-1	MW-2		
1	pH	-	6.96	6.94	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28.4	26.7	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	39100	39300	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	23540	23680	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1350	1536	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	7.45	7.39	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.12	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	4	10	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.7	6.5	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	10	8	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	50	50	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.04	0.03	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.15	0.12	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.70	0.30	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/m ³	1.20	1.24	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	19	19.20	APHA 23 rd Ed.	-
23	Salinity	PPT	27.9	29.9	EC Meter	-
24	Nitrite as NO ₂	mg/l	0.05	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	8.15	7.90	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.42	0.75	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.65	0.83	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	348	425	IS:1622	500/100 ml

Remark: ND-Not Detected

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report are valid only for the samples tested. The report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples not to be used after 60 days from the date of issue unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories limited amount amount only. If you have any comments/feedback regarding the sample collection/testing/report, please send an email to info@nityalab.com and call us on +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130121-122
Test Report Date: 23/09/2023

Sample Particulars

Nature of the Sample	: Marine Water
Sample Quantity & Packaging	: 1.0 Liter, Sterilized Pet Bottle (Each)
Sample Received at Lab	: 16/09/2023
Test Started On	: 16/09/2023
Test Completed On	: 22/09/2023
Method of Sampling	: SOP/B/D-3
Date of Sampling	: 13/09/2023
Monitoring Conducted By	: Mr. Shridhar
Sample Description	: MW1: Near GCB (Surface) MW2: Near GCB (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-1	SW-2	
1	Phytoplankton* (54 um mesh)			
	Biomass	3.6	3.2	APHA 23 rd Ed.
	Diversity	2.1	2.6	
	Species	Peridinium elegans, Thalassiosira pseudonana	Skeletonema costatum, Navicula lancoolata	
2	Zooplankton* (200 um mesh)			
	Biomass	0.036	0.049	APHA 23 rd Ed.
	Diversity	2.3	2.4	
	Species	Gobigerina bulloides, Helicostomella Longa, Acrocalanus gracilis	Diphyes chamissonis, Eutimninus tenue, Euchaeta marina	
3	Benthos*			
	Species	Ancilla ampia, Syllis ferrugina, Cirratulus sadylophius	Malacoceeris indicus, Megalona cincta, Apseudes chilensis	APHA 23 rd Ed.


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. The report is intended only for your guidance and should not be used for any other purpose. This report shall not be reproduced, copied or put without the written approval of the organization. Samples will be returned after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee paid for the test. If you have any comments/feedback regarding this service, please email us at info@nityalab.com and call us at +91-191-2465597, +91-9871331002.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130123-124
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/BID-3
13/09/2023
Mr. Shridhar
MW3: Near MLT Berth (Surface)
MW4: Near MLT Berth (Bottom 1.5 m)
Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-3	MW-4		
1	pH	-	6.98	7.02	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28.7	26.4	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	40800	41500	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	24640	25025	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1970	2015	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	8.2	10.14	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.10	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	12	15	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	8.8	6.6	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	18	5	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	80	40	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.23	0.10	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.12	0.10	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.50	0.25	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/m ³	2.7	2	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	16.8	17.9	APHA 23 rd Ed.	-
23	Salinity	PPT	29.6	31.00	EC Meter	-
24	Nitrite as NO ₂	mg/l	0.05	0.05	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	8.50	11.15	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.20	0.40	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.40	0.50	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	302	485	IS:1522 (P-31)	500/100 ml

Remark: ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report are valid only for the samples tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not to be used as evidence in any court of law. The report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of this certificate unless otherwise specified. Any complaint should be made within 7 days of issue of this report. The liability of Nitya Laboratories is limited to the amount paid only.
If you have any comments/feedback regarding this sample, contact us through email: info@nityalab.com or call us at +91-191-2465597. +91-9876543210

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130123-124
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
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	4.2	3.2	APHA 23 rd Ed.
	Diversity	2.3	1.9	
	Species	Rhabdonema magnificum, Bacillaria paxillifera, Fragilaropsis oceanic	Coscinodiscus radiates, Bacteriastrium hyalinum	
2	Zooplankton* (200 um mesh)			
	Biomass	0.019	0.034	APHA 23 rd Ed.
	Diversity	1.3	2	
	Species	Brechionus plicatilis, Oithona rigida, Paracandacia truncata	Aglaurehemistoma, Elphidium crispum, Undinula vulgaris	
3	Benthos*			
	Species	Ancistrosyllis parva, Nephtyidae dibranchis	Lumbrineris latreilli, Other amphipod, Dosinia trigona	APHA 23 rd Ed.


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for quality of report. The results contained in this test report shall only be for the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your customer and not for any other purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaint regarding the sample collection/weight/quantity, please send an email at info@nityalab.com and call at +91-191-2465597.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130125-126
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
Mr. Shridhar
MW5: Near Finger Jetty (Surface)
MW6: Near Finger Jetty (Bottom 1.5 m)
Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-5	MW-6		
1	pH	-	6.99	7.01	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	29	28.2	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	39400	39900	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	23710	24090	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1732	2140	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	11.36	6.24	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.10	0.20	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	15	3	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.9	6.4	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	14	12	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	50	60	IS:3025 (P-56)	-
13	Copper as Cu	mg/l	0.10	0.05	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.25	0.20	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.50	0.35	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/m ³	2.4	2.1	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	17.5	17.6	APHA 23 rd Ed.	-
23	Salinity	PPT	28.4	30.3	EC Meter	-
24	Nitrite as NO ₂	mg/l	0.06	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	11.70	6.50	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.39	0.35	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.43	0.41	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	177	278	IS:1622	500/100 ml

Remark: ND-Not Detected

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report relate only to the samples tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any comments/suggestions regarding the sample collection/transportation/report, please send an email at info@nityalab.com and call us at +91-191-2465597. +91-9013591021

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130125-125
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
Mr. Shridhar
MW5: Near Finger Jetty (Surface)
MW6: Near Finger Jetty (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-5	SW-6	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	1.69	2.3	
	Diversity	2.1	2.6	
	Species	Trichodesmium erythraeum, Chlorella salina	Triceratium dubium, Navicula sigma, Chaetoceros capense	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.037	0.029	
	Diversity	2.9	1.7	
	Species	Metacalanu saurivilli, Textularia candeiano, Farranula carinata	Favella brevis, Calanus finmarchicus	
3	Benthos*			APHA 23 rd Ed.
	Species	Cossurs coasta, Maktanids, Macoma birmanica	Amphicteis gunneri, Anadara granosa, Lumbrinerinae simplex	


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for correct interpretation of the results. The results are valid only for the samples tested. Test report shall not be reproduced or used in full without the written approval of the laboratory. The report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced or used in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about the report should be communicated within 7 days of issue of the report. The liability of Nitya Laboratories is limited to the amount of the fee only.
If you have any comments/feedback regarding this analysis, please contact us at info@nityalab.com or call us at +91-191-2465597. +91-9875550002

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130127-128
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
Mr. Shridhar
MW7: Outer South-North Break Water (Surface)
MW8: Outer South-North Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-7	MW-8		
1	pH	-	7.05	7.12	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	29.4	27.6	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	39300	39800	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	22670	23980	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	2143	1779	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	3.45	5.49	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.14	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	18	12	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.8	6.4	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	15	14	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	60	50	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.04	0.20	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.24	0.30	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.40	0.70	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/m ³	1.3	1.5	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	18	17.84	APHA 23 rd Ed.	-
23	Salinity	PPT	26.9	30.2	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	4.10	5.70	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.45	0.95	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.61	0.99	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	278	212	IS:1622	500/100 ml

Remark:

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for quality of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue unless otherwise specified. Any complaint about the report should be communicated in writing within 7 days of date of this report. Total liability of Nitya Laboratories is limited to the amount specified in the contract. If you have any comments/queries regarding this sample analysis/analysis report, please email us at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130127-128
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/BD-3
13/09/2023
Mr. Shridhar
MW7: Outer South-North Break Water (Surface)
MW8: Outer South-North Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-7	SW-8	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	4.2	3.7	
	Diversity	2.4	1.9	
	Species	Fragilariopsis oceanic, Odontella sinensis, Peridinium elegans	Oithona nana, Pleurosigma elongatum, Diploleis smithii	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.062	0.084	
	Diversity	2.5	2.1	
	Species	Acartia danae, Pennaeid nauplius, Tortanus barbatus	Paracalanus parvus, Oncaelidae mediterranea	
3	Benthos*			APHA 23 rd Ed.
	Species	Pisom oerstedii, Cirratulus desylophius	Nephtys incertis, Pinna bicolor.	


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for the accuracy of the results. The results contained in this report shall only be used for the purpose intended. Test report shall not be reproduced or copied in full without the written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced or copied in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of receipt of this report. Test facility of Nitya Laboratories is limited to the above mentioned only. If you have any complaint regarding the sample collection/analysis/report, please send an email to info@nityalab.com or call us at +91-191-2465597. +91-9876543210

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130129-130
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/BD-3
13/09/2023
Mr. Shridhar
MW9: Outer Mouth-East Break Water (Surface)
MW10: Outer Mouth-East Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-9	MW-10		
1	pH	-	7.37	7.02	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28	26.7	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	39400	40100	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	23780	24180	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1676	1614	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	4.43	9.69	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	ND	ND	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	8	17	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.6	6.5	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	12	10	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	60	30	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.12	0.05	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.20	0.60	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.40	0.70	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/m ³	1.50	2	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	17.41	17.32	APHA 23 rd Ed.	-
23	Salinity	PPT	30.1	31.6	EC Meter	-
24	Nitrite as NO ₂	mg/l	0.05	ND (DL-0.01)	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	4.95	9.75	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.40	0.39	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.35	0.45	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	177	253	IS:1622	500/100 ml

Remark:

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for the test report. The results contained in this test report are valid only for the sample tested. Test result shall not be reproduced or copied, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced or copied in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue unless otherwise specified. Any complaint about the report should be communicated in writing within 10 days of receipt of the report. For information of client, laboratories are located throughout the country. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9800000000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130129-130
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
Mr. Shridhar
MW9: Outer South-East Break Water (Surface)
MW10: Outer South-East Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Test Results		Protocol
		SW-9	SW-10	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	3.4	4.8	
	Diversity	2.9	2.6	
	Species	Bacteriastrum delicatulum, Actiniscus pentasterias	Amphora laevis, Bacillaria paxillifera, Gyrodinium aureolum	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.094	0.081	
	Diversity	1.6	2.2	
	Species	Longipedia weberi, Metacyclops jorgenseni	Farranula carinata, Copepod nauplii, Hyalocylis striata,	
3	Benthos*			APHA 23 rd Ed.
	Species	Armandia intermedia, Pugilina cochlidium	Pulliatia armata, Dosinia trigona	


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for content of report. The results contained in this report issued only to the client based on the report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report must be reproduced in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Full liability of Nitya Laboratories is limited to the amount of the fee only.
If you have any comments/feedback regarding the sample collection/analysis/report, please write an email to info@nityalab.com or call us at +91-191-2465597 / +91-9876543210

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No.: 202309130131-132
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
Mr. Shridhar
MW11: Outer South-South Break Water (Surface)
MW12: Outer South-South Break Water (Bottom 1.5 m)

Analysis Report

Sr. No.	Parameters	Unit	Test Results		Protocol	SW-Class-IV Harbour Standards
			MW-11	MW-12		
1	pH	-	6.96	7.22	IS:3025 (P-11)	6.0-9.0
2	Temperature	°C	28.8	26.1	IS:3025 (P-9)	-
3	Electrical Conductivity	µs/cm	39200	41100	IS:3025 (P-14)	-
4	Turbidity	NTU	<1	<1	APHA 23 rd Ed.	-
5	Total Dissolved Solids	mg/l	23620	24820	IS:3025 (P-16)	-
6	Sulphate as SO ₄	mg/l	1915	1340	APHA 23 rd Ed.	-
7	Nitrates as NO ₃	mg/l	7.95	7.75	IS:3025 (P-34)	-
8	Total Ammonia	mg/l	0.15	0.20	IS:3025 (P-34)	-
9	Total Suspended Solids	mg/l	4	8	IS:3025 (P-17)	-
10	Dissolved Oxygen as DO	mg/l	6.9	6.7	IS:3025 (P-38)	3.0
11	Biological Oxygen Demand	mg/l	4	15	IS:3025 (P-44)	5.0
12	Chemical Oxygen Demand	mg/l	30	70	IS:3025 (P-58)	-
13	Copper as Cu	mg/l	0.10	0.15	APHA 23 rd Ed.	-
14	Iron (as Fe)	mg/l	0.40	0.25	APHA 23 rd Ed.	-
15	Zinc as Zn	mg/l	0.70	0.60	APHA 23 rd Ed.	-
16	Mercury as Hg	mg/l	ND [DL-0.001]	ND [DL-0.001]	APHA 23 rd Ed.	-
17	Arsenic as As	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
18	Lead as Pb	mg/l	ND [DL-0.01]	ND [DL-0.01]	APHA 23 rd Ed.	-
19	Cadmium as Cd	mg/l	ND	ND	APHA 23 rd Ed.	-
20	Petroleum Hydrocarbons	mg/l	ND (DL-0.01)	ND (DL-0.01)	APHA 23 rd Ed.	-
21	Chlorophyll A	mg/m ³	1.36	2.1	APHA 23 rd Ed.	-
22	Phaeophytin	mg/m ³	16.6	17.9	APHA 23 rd Ed.	-
23	Salinity	PPT	27.7	30.7	EC Meter	-
24	Nitrite as NO ₂	mg/l	ND (DL-0.01)	0.05	IS:3025 (P-34)	-
25	Total Nitrogen as N	mg/l	8.15	7.90	IS:3025 (P-34)	-
26	Inorganic Phosphate	mg/l	0.45	0.50	IS:3025 (P-31)	-
27	Total Phosphate as P	mg/l	0.51	0.55	IS:3025 (P-31)	-
28	Faecal Coliform*	MPN/100 ml	281	360	IS:1622	500/100 ml

Remarks:

ND-Not Detected

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report are valid only for the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is valid only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of the certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 15 days of issue of this report. Total liability of Nitya Laboratories is limited to insured amount only. If you have any comments/feedback regarding the sample collected/delivered/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9876320000

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Issued To **Mis Kamarajar Port Trust**
Vallur Post, Chennai, India

Test Report No.: 202309130131-132
Test Report Date: 23/09/2023

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)
16/09/2023
16/09/2023
22/09/2023
SOP/B/D-3
13/09/2023
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 Results		Protocol
		SW-11	SW-12	
1	Phytoplankton* (64 um mesh)			APHA 23 rd Ed.
	Biomass	3.4	2.2	
	Diversity	2.2	1.6	
	Species	Calothrix crustacean, Skeletonema costatum	Rhizosolenia cylindrus, Nitzschia penduriformis, Peridinium claudicans	
2	Zooplankton* (200 um mesh)			APHA 23 rd Ed.
	Biomass	0.086	0.098	
	Diversity	2.7	2.3	
	Species	Favella brevis, Calanopia minor, Grotigerina bulloides	Textularia agglutinans, Euchaeta concinna	
3	Benthos*			APHA 23 rd Ed.
	Species	Pugilina coachlidium, Potamila ehleri	Laevicardium apertum, Portula tubularia, Prionospio cirrifera	


(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for misuse of report. The results contained in this test report shall only be for the sample tested. The report shall not be reproduced except in full, without the written approval of the laboratory. The report is intended only for your personal use and not for any other purpose or for advertisement. The report shall not be reproduced or used in full without the written approval of the laboratory. Samples will be destroyed after 10 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated to us within 7 days of receipt of the report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaint/feedback regarding the sample collection/testing/report, please contact us at info@nityalab.com and call at +91-191-2465597 / +91-9873040001.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Marine Sediment

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report related only to the sample tested. The report shall not be reproduced without full, written written approval of the laboratory. This report is provided only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced without the written approval of the laboratory. Samples are to be received after 30 days from the date of receipt of the certificate unless otherwise specified. Any complaint about the report should be communicated within 10 days of receipt of the report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample collection/testing/lab report, please send an email to info@nityalab.com and call at 0191-2465597, +91-9872046000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report No: 202309130133-136
Test Report Date: 23/09/2023

Sample Particulars

Nature of the Sample	Marine Sediment Quality
Sample Quantity & Packaging	1.0 Kg. Pet Bottle (Each)
Sample Received at Lab	16/09/2023
Test Started On	16/09/2023
Test Completed On	22/09/2023
Method of Sampling	SOP/B/D-3
Date of Sampling	13/09/2023
Monitoring Conducted By	Mr. Shridhar
Sample Description	S1: Near Finger Jetty S2: Near Marine Liquid Terminal (MLT) S3: Near General Cargo Berth S4: Creek Mouth

Analysis Report

Sr. No.	Parameters	Unit	Test Results			
			S1	S2	S3	S4
1	Particle Size	mm	0.06	0.07	0.05	0.04
2	Organic Carbon	%	22.50	35.6	19.4	29.8
3	Organic Nitrogen	%	84.20	70.4	90.50	75.20
4	Copper as Cu	mg/kg	4.50	6.90	3.60	2.0
5	Lead as Pb	mg/kg	1.90	3.10	2.60	1.90
6	Cadmium as Cd	mg/kg	ND	ND	ND	ND
7	Mercury	mg/kg	ND	ND	ND	ND
8	Arsenic	mg/kg	ND	ND	ND	ND

Remark:
ND-Not Detected


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for content of report. The results contained in this report related only to the samples tested. This report shall not be reproduced except in full, without written permission of the laboratory. The report is issued only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of the certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaint/feedback regarding the laboratory please contact us at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



Kamarajar Port Limited

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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: October 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Effluent (Sewage) Monitoring	18-19



Test Reports of Ambient Air Quality Monitoring



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited indicated amount only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9672680992

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM _{2.5}) µg/m ³	Particulate Matter (PM ₁₀) µg/m ³	Sulphur Dioxide (as SO ₂) µg/m ³	Nitrogen Dioxide (as NO ₂) µg/m ³	Carbon Monoxide (as CO) mg/m ³
1	03/10/2023	TC636623000004778F	21.10	55.20	12.30	23.10	ND
2	06/10/2023	TC636623000004828F	24.20	52.40	11.20	21.10	ND
3	09/10/2023	TC636623000005124F	16.80	51.20	12.80	27.40	ND
4	12/10/2023	TC636623000005187F	18.50	56.30	10.80	19.20	ND
5	16/10/2023	TC636623000005321F	26.90	51.20	13.20	28.80	ND
6	20/10/2023	TC636623000005410F	17.80	54.20	11.20	29.30	ND
7	24/10/2023	TC636623000005454F	16.30	56.90	13.40	20.50	ND
8	27/10/2023	TC636623000005564F	21.80	50.20	12.80	27.50	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II sec.-3(i)] 16.11.2009, 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.



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is issued only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaints/feedback regarding the sample collected/analyzed/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8872624081.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030110	ND
2	05/10/2023	202310060110	ND
3	09/10/2023	202310090110	ND
4	12/10/2023	202310120110	ND
5	16/10/2023	202310160110	ND
6	20/10/2023	202310200110	ND
7	24/10/2023	202310240110	ND
8	27/10/2023	202310270110	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQs: National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (30), (Part-II-sec.-30) 16.11.2009, ND-Not Detected,
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9673824053

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/10/2023	TC636623000004779F	22.30	27.80	11.20	16.20	ND
2	06/10/2023	TC636623000004829F	20.90	32.10	12.40	24.10	ND
3	09/10/2023	TC636623000005125F	23.50	43.40	13.40	27.30	ND
4	12/10/2023	TC636623000005188F	23.10	36.90	10.50	22.30	ND
5	16/10/2023	TC636623000005322F	17.30	38.20	12.80	27.10	ND
6	20/10/2023	TC636623000005411F	16.90	45.20	13.40	23.40	ND
7	24/10/2023	TC636623000005455F	19.40	23.90	11.20	26.90	ND
8	27/10/2023	TC636623000005565F	23.90	37.80	14.50	29.50	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)

Remarks:

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



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of the fee. If you have any complaint/feedback regarding the sample collection/analytical report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8873624090

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Issued To **Mis Kamarajar Port Trust**
Vallur Post, Chennai, India

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030111	ND
2	06/10/2023	202310060111	ND
3	09/10/2023	202310090111	ND
4	12/10/2023	202310120111	ND
5	16/10/2023	202310160111	ND
6	20/10/2023	202310200111	ND
7	24/10/2023	202310240111	ND
8	27/10/2023	202310270111	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQSS: National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (2B), (Part-II sec-3(i)) 16.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for validity of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. The report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

6

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/10/2023	TC636623000004780F	29.20	48.30	13.50	23.40	ND
2	06/10/2023	TC636623000004830F	30.10	53.20	14.60	27.20	ND
3	09/10/2023	TC636623000005126F	23.00	41.50	10.90	26.90	ND
4	12/10/2023	TC636623000005189F	29.40	45.20	15.20	18.30	ND
5	16/10/2023	TC636623000005323F	28.50	49.20	12.40	16.20	ND
6	20/10/2023	TC636623000005412F	27.20	52.00	13.40	28.40	ND
7	24/10/2023	TC636623000005456F	21.90	56.30	11.00	29.30	ND
8	27/10/2023	TC636623000005566F	30.80	39.90	11.40	31.00	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part II-sec.-30] 15.11.2008, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total lab. of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9573024063

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030112	ND
2	06/10/2023	202310060112	ND
3	09/10/2023	202310090112	ND
4	12/10/2023	202310120112	ND
5	16/10/2023	202310160112	ND
6	20/10/2023	202310220112	ND
7	24/10/2023	202310240112	ND
8	27/10/2023	202310270112	ND
Test Method			PID Based Methane Analyser

Remark:

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

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: This laboratory accepts the responsibility for content of report. The results contained in this report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013552273.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/10/2023	TC638623000004781F	25.20	44.50	12.90	22.80	ND
2	06/10/2023	TC638623000004831F	22.40	51.20	11.20	17.30	ND
3	09/10/2023	TC638623000005127F	21.50	49.20	13.40	21.50	ND
4	12/10/2023	TC638623000005190F	20.40	47.10	12.90	17.20	ND
5	16/10/2023	TC638623000005324F	17.30	53.40	15.20	16.20	ND
6	20/10/2023	TC638623000005413F	13.40	54.50	11.20	25.40	ND
7	24/10/2023	TC638623000005457F	22.50	43.20	13.50	27.20	ND
8	27/10/2023	TC638623000005567F	16.40	47.90	17.20	21.30	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



TC-6366



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced, copied or in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8873929093.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030113	ND
2	06/10/2023	202310060113	ND
3	09/10/2023	202310090113	ND
4	12/10/2023	202310120113	ND
5	18/10/2023	202310180113	ND
6	20/10/2023	202310220113	ND
7	24/10/2023	202310240113	ND
8	27/10/2023	202310270113	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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9871824063

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/10/2023	TC636623000004782F	26.20	25.40	19.00	25.80	ND
2	06/10/2023	TC636623000004832F	29.50	35.80	21.10	15.90	ND
3	09/10/2023	TC636623000005128F	16.20	33.40	25.20	18.20	ND
4	12/10/2023	TC636623000005191F	15.20	44.20	18.50	15.10	ND
5	16/10/2023	TC636623000005325F	20.20	46.20	28.20	25.40	ND
6	20/10/2023	TC636623000005414F	29.20	44.80	23.10	23.80	ND
7	24/10/2023	TC636623000005458F	25.40	41.80	21.10	28.40	ND
8	27/10/2023	TC636623000005568F	23.50	33.90	18.20	28.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix I Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



TC-6366



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaint about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collected/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9672828882.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030114	ND
2	06/10/2023	202310060114	ND
3	09/10/2023	202310090114	ND
4	12/10/2023	202310120114	ND
5	16/10/2023	202310160114	ND
6	20/10/2023	202310200114	ND
7	24/10/2023	202310240114	ND
8	27/10/2023	202310270114	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQSS: National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (3B)) (Part-II-sec.-3(i)) 16.11.2008, ND-Not Detected
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-887326280

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/10/2023	TC636623000004783F	19.10	35.20	16.20	18.20	ND
2	06/10/2023	TC636623000004833F	21.10	27.20	14.80	17.40	ND
3	09/10/2023	TC636623000005129F	28.20	28.40	14.20	21.40	ND
4	12/10/2023	TC636623000005192F	22.10	21.10	14.10	29.40	ND
5	16/10/2023	TC636623000005326F	23.10	28.30	13.90	25.20	ND
6	20/10/2023	TC636623000005415F	25.40	25.20	13.20	24.10	ND
7	24/10/2023	TC636623000005459F	23.40	21.90	13.10	28.20	ND
8	27/10/2023	TC636623000005569F	16.20	25.40	15.20	19.20	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII (Rule 3 (38)) [Part-II-sec-30]] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



NOTE: The laboratory accepts the responsibility for content of report. The results contained in the test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 1 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample submission/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8672824933

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030115	ND
2	06/10/2023	202310060115	ND
3	09/10/2023	202310090115	ND
4	12/10/2023	202310120115	ND
5	16/10/2023	202310160115	ND
6	20/10/2023	202310200115	ND
7	24/10/2023	202310240115	ND
8	27/10/2023	202310270115	ND
Test Method			PID Based Methane Analyser

Remark:

NAACS: 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9877024083.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/10/2023	TC636623000004784F	26.10	28.30	16.20	22.40	ND
2	06/10/2023	TC636623000004834F	25.40	17.30	17.40	19.10	ND
3	09/10/2023	TC636623000005130F	23.30	26.20	19.50	24.70	ND
4	12/10/2023	TC636623000005193F	20.50	24.40	15.90	28.20	ND
5	16/10/2023	TC636623000005327F	19.50	30.90	15.20	15.10	ND
6	20/10/2023	TC636623000005416F	21.90	26.30	21.40	16.20	ND
7	24/10/2023	TC636623000005460F	20.80	31.90	20.40	16.20	ND
8	27/10/2023	TC636623000005570F	20.40	25.20	22.50	22.50	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (3B)), (Part-II-sec-3(i)) 16.11.2009, 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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount of test fee only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call us at +91-191-2465597, +91-987924683

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030116	ND
2	06/10/2023	202310060116	ND
3	09/10/2023	202310090116	ND
4	12/10/2023	202310120116	ND
5	16/10/2023	202310160116	ND
6	20/10/2023	20231020116	ND
7	24/10/2023	202310240116	ND
8	27/10/2023	202310270116	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (36)), (Part-II-sec.-3(i)) 15.11.2009, ND-Not Detected,
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions,
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

NITYA LABORATORIES
AUTHORISED
AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results mentioned in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8873032065.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	03/10/2023	TC636623000004785F	23.90	25.60	19.10	23.90	ND
2	06/10/2023	TC636623000004835F	22.50	29.40	18.20	30.20	ND
3	09/10/2023	TC636623000005131F	25.40	31.40	19.40	32.20	ND
4	12/10/2023	TC636623000005194F	28.10	45.10	20.10	28.80	ND
5	16/10/2023	TC636623000005328F	21.90	40.00	14.80	22.40	ND
6	20/10/2023	TC636623000005417F	20.10	35.10	13.90	20.10	ND
7	24/10/2023	TC636623000005461F	23.40	43.20	14.90	21.40	ND
8	27/10/2023	TC636623000005571F	20.90	41.20	13.20	22.30	ND
NAAQM Standards			50	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-8)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 18.11.2002. ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts no responsibility for misuse of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 03/11/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration
			Methane (%)
1	03/10/2023	202310030117	ND
2	06/10/2023	202310060117	ND
3	09/10/2023	202310090117	ND
4	12/10/2023	202310120117	ND
5	16/10/2023	202310160117	ND
6	20/10/2023	202310200117	ND
7	24/10/2023	202310240117	ND
8	27/10/2023	202310270117	ND
Test Method			PID Based Methane Analyser

Remark:

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for contents of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Test lab: Nitya Laboratories is limited liability company only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8873924952

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Liability of Nitya Laboratories is limited to agreed amount only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-091-2465597, +91-6873604083

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

ULR No.: TC636623000005562F-5563F
Test Report Date: 04/11/2023

Sample Particulars

Nature of the Sample : **Wastewater (STP)**
Sample Quantity & Packaging : **1.0 Liter, Pet Bottle (Each)**
Sample Received at Lab : **30/10/2023**
Test Started On : **30/10/2023**
Test Completed On : **03/11/2023**
Method of Sampling : **SOP/B/D-3**
Date of Sampling : **27/10/2023**
Monitoring Conducted By : **Mr. Shridhar**
Sample Description : **W-1: STP O/L of Admin Building
W-2: STP O/L of Car Parking**

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	...	7.50	7.20	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	130	310	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	30	20	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	10	5	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	426	542	<1000	IS:1622

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to tested amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873204893

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: November 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Effluent (Sewage) Monitoring	18-19



Introduction

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

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

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

2.0 Scope and Methodology:

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

2.1 Ambient Air Quality

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



CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

AMBIENT AIR QUALITY MONITORING:

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

Table: Detail of Ambient Air Quality Monitoring Locations

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

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



CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Ambient Air Quality Monitoring



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced or used in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9878824033.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636623000005902F	29.40	56.40	15.30	25.10	ND
2	10/11/2023	TC636623000005981F	20.30	55.30	16.40	31.80	ND
3	17/11/2023	TC636623000006063F	23.20	60.30	14.30	23.40	ND
4	23/11/2023	TC636623000006143F	30.20	55.20	17.20	32.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (35)), (Part-II-sec-3(i)) 16.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



TC-6366



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes in the advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-987824283.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/12/2023

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	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060110	ND
2	10/11/2023	202311090110	ND
3	17/11/2023	202311170110	ND
4	23/11/2023	202311230110	ND
Test Method			PID Based Methane Analyser

Remark:

NAQS: National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (38)) (Part-3-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)

NOTE: The signatory accepts the responsibility for content of report. The results contained in this test report tested only in the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only. If you have any complaint/feedback regarding the sample collection/test/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9073816293.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/12/2023

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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO_2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO_2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636623000005903F	24.50	36.40	16.40	28.30	ND
2	10/11/2023	TC636623000005982F	27.40	47.30	17.30	31.50	ND
3	17/11/2023	TC636623000006064F	27.80	40.50	14.40	26.80	ND
4	23/11/2023	TC636623000006144F	21.80	42.50	16.50	31.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount involved only. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9673924890.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

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	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060111	ND
2	10/11/2023	202311090111	ND
3	17/11/2023	202311170111	ND
4	23/11/2023	202311230111	ND
Test Method			PID Based Methane Analyser

Remark:

NAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (36)], [Part II-sec-3(i)] 15.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be re-examined except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be re-examined except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only. If you have any complaint/feedback regarding the sample submitted/analyzed report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9073620082

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO_2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO_2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636823000005904F	34.50	56.40	18.40	31.20	ND
2	10/11/2023	TC636623000005983F	27.80	46.40	14.50	30.50	ND
3	17/11/2023	TC636623000006085F	33.40	49.40	19.80	32.50	ND
4	23/11/2023	TC636623000006145F	32.50	53.40	16.80	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:

NAAQM: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (3)(b), [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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. The report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated involving within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-987624983.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060112	ND
2	10/11/2023	202311090112	ND
3	17/11/2023	202311170112	ND
4	23/11/2023	202311230112	ND
Test Method			PID Based Methane Analyser

Remark:

NAQS: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (3B)], [Part-I-sec-3(i)] 10.11.2009, 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Liability of Nitya Laboratories is limited to agreed amount only. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924952

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/12/2023

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

Signal Station

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636623000005905F	26.40	55.20	15.30	21.50	ND
2	10/11/2023	TC636623000005984F	25.30	53.40	17.40	25.50	ND
3	17/11/2023	TC636623000006066F	23.80	51.20	16.50	21.30	ND
4	23/11/2023	TC636623000006146F	20.80	57.10	19.50	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)

Remarks:

NAAQS: National Ambient Air Quality Standards; Schedule-VI (Rule 3 (B)) (Part-II-sec-3(i)) 15.11.2008, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for contents of report. The results mentioned in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873606083.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

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
Signal Station
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060113	ND
2	10/11/2023	202311090113	ND
3	17/11/2023	202311170113	ND
4	23/11/2023	202311230113	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQSS: National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (3d), (Part-II-sec-3(i)) 16.11.2008. ND-Not Detected.
DL-Detection Limit: the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873620993

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

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	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636623000005906F	33.40	39.40	25.10	19.90	ND
2	10/11/2023	TC636623000005985F	20.50	37.40	28.40	22.60	ND
3	17/11/2023	TC636623000006067F	19.50	48.40	22.80	20.10	ND
4	23/11/2023	TC636623000006147F	24.50	50.10	32.10	29.80	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)

Remarks:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Rule-3 (39)), Part-II-sec-3(i) 18.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this signatory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of date of this report. Your liability at Nitya Laboratories is limited to the amount paid only. If you have any comments/queries regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873624063

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

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	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060114	ND
2	10/11/2023	202311090114	ND
3	17/11/2023	202311170114	ND
4	23/11/2023	202311230114	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (2B)], [Part-I-sec-3(i)] 18.11.2008, ND-Not Detected.
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to value of test only. If you have any complaint/feedback regarding the services, please send an email at info@nityalab.com and call at +91-191-2465597, +91-887-9224993.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

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	ULR No	Concentration				
			Particulate Matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636623000005907F	25.10	31.10	18.20	21.10	ND
2	10/11/2023	TC636623000005986F	31.40	33.40	17.90	25.50	ND
3	17/11/2023	TC636623000006068F	26.40	27.40	18.50	33.40	ND
4	23/11/2023	TC636623000006148F	27.40	34.40	16.40	29.50	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCS 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-4 sec-30)) 16.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCS-Central Pollution Control Board



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results obtained in the test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Time liability of Nitya Laboratories is limited to the above mentioned period only. If you have any complaint/feedback regarding the sample testing/testing report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-0812924085

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

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	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060115	ND
2	10/11/2023	202311090115	ND
3	17/11/2023	202311170115	ND
4	23/11/2023	202311230115	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (2B)], [Part-I]-sec-3(i) 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Test facility of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample collection/test/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9519224993

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

14

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				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636623000005908F	28.90	22.10	21.50	23.80	ND
2	10/11/2023	TC636623000005987F	27.10	30.50	23.40	28.40	ND
3	17/11/2023	TC636623000006069F	24.40	28.60	19.60	32.10	ND
4	23/11/2023	TC636623000006149F	23.80	34.40	19.00	19.60	ND
NAAQM Standards			60	10030.50	80	80	2
Test Method			40CFR Appendix L Part 53 CPCS Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VII, (Rule 3 (B), (Part-3 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, CPCS-Central Pollution Control Board



TC-6366



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the samples tested. Test report shall not be reproduced except in full without the written approval of this signification. Samples will be destroyed after 30 days from the date of test. If you have any complaint regarding the sample collection/analysis/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8579000077

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

15

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

To Check the Pollution Load

Car Parking

IS 5182 (Part 14)

Mr. Shridhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060116	ND
2	10/11/2023	202311090116	ND
3	17/11/2023	202311170116	ND
4	23/11/2023	202311230116	ND
Test Method			PID Based Methane Analyser

Remark:

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of test fee. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9013591021.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO_2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO_2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/11/2023	TC636623000005909F	26.10	33.40	22.60	34.20	ND
2	10/11/2023	TC636623000005988F	29.40	35.60	23.80	36.10	ND
3	17/11/2023	TC636623000006070F	31.50	49.50	24.10	32.50	ND
4	23/11/2023	TC636623000006150F	24.80	44.60	18.20	26.50	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)

Remarks:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (2)(i), Part-I-sec-3(i)] 16.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9473630993

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/12/2023

Sample Particulars

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

Analysis Report

Sr. No.	Date of Sampling	Report No	Concentration
			Methane (%)
1	07/11/2023	202311060117	ND
2	10/11/2023	202311090117	ND
3	17/11/2023	202311170117	ND
4	23/11/2023	202311230117	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II-sec-3(i)] 16.11.2008. ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Report will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Your liability of Nitya Laboratories is limited to report amount only. If you have any complaints/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9073848893.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report must not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal dispute or for advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample collected/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9073040097

CORPORATE OFFICE & CENTRAL LABORATORIES :-

4 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

ULR No.: TC638623000006237F-6238F
Test Report Date: 08/12/2023

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)
01/12/2023
01/12/2023
07/12/2023
SOP/B/D-3
27/11/2023
Mr. Shridhar
W-1: STP O/L of Admin Building
W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	...	7.39	7.11	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	112	265	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	44	30	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	12	6	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	515	669	<1000	IS:1622



TC-6386

(AUTHORISED SIGNATORY)

(RHYTHM BASSON*)



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reissued except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample submitted/tested report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-607363000.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



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

Reports on Environmental Monitoring of Kamarajar Port Limited



Study Period: December 2023

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 | Faridabad (Haryana) | Jammu (J&K) | Mangalore (Karnataka) |

Table of Contents

Sr. No.	Introduction	Page No.
1	Test Reports of Ambient Air Quality Monitoring	1-17
2	Test Reports of Effluent (Sewage) Monitoring	18-19



CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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.

**CORPORATE OFFICE & CENTRAL LABORATORIES :-**

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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.



CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Ambient Air Quality Monitoring


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report issued only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. The report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9673828893.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

4 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO_2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO_2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006589F	24.60	58.60	15.40	25.80	ND
2	11/12/2023	TC636623000006671F	27.20	55.40	14.20	24.20	ND
3	15/12/2023	TC636623000006744F	19.40	54.20	15.60	30.20	ND
4	18/12/2023	TC636623000006799F	21.50	59.20	13.20	22.50	ND
5	22/12/2023	TC636623000006895F	29.20	53.20	16.20	31.40	ND
6	26/12/2023	TC636623000006895F	20.40	58.10	14.70	32.50	ND
7	29/12/2023	TC636623000007127F	19.20	58.30	16.90	24.80	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



TC-6366



(AUTHORISED-SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced, copied or full without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 10 days from the date of issue of report. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91 191 2465597, +91 9872024950

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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	07/12/2023	202310030110	ND
2	11/12/2023	202310060110	ND
3	15/12/2023	202310090110	ND
4	18/12/2023	202310120110	ND
5	22/12/2023	202310160110	ND
6	26/12/2023	202310220110	ND
7	29/12/2023	202310240110	ND
Test Method			PID Based Methane Analyser

Remarks:

NAAQS: National Ambient Air Quality Standards: Schedule-VII, (Rule 3 (1B)) (Part-I sec.-3(i)) 18.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9879324093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006590F	25.70	30.20	14.50	19.20	ND
2	11/12/2023	TC636623000006672F	23.60	35.20	15.80	27.20	ND
3	15/12/2023	TC636623000006745F	26.40	46.20	16.60	30.50	ND
4	18/12/2023	TC636623000006900F	26.90	39.20	13.60	25.40	ND
5	22/12/2023	TC636623000006896F	20.50	41.20	15.20	29.60	ND
6	26/12/2023	TC636623000006996F	19.20	48.30	16.20	26.20	ND
7	29/12/2023	TC636623000007128F	22.50	26.80	14.50	29.10	ND
NAAQM Standards			50	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:

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



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for veracity of results. The results obtained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any comments about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount of fees. If you have any complaint/feedback regarding the sample collection/testing/report please send an e-mail to info@nityalab.com and call at +91-191-2465597, +91-9873034362.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO, 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 08/01/2024

Sample Particulars

Nature of the Sample
Purpose of Monitoring
Sampling Location
Method of Sampling
Monitoring Conducted By
Sampling Duration (Hrs.)

Ambient Air Quality Monitoring
To Check the Pollution Load
Guest House
IS 5182 (Part 14)
Mr. Shridhar
24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	07/12/2023	202310030111	ND
2	11/12/2023	202310060111	ND
3	15/12/2023	202310090111	ND
4	18/12/2023	202310120111	ND
5	22/12/2023	202310160111	ND
6	26/12/2023	202310220111	ND
7	29/12/2023	202310240111	ND
Test Method			PID Based Methane Analyser

Remark:

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


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be delivered after 30 days from the date of issue of the report unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of the report. Total liability of Nitya Laboratories is limited to the amount of the fee. If you have any complaint/feedback regarding the service rendered by the laboratory, please send an email to info@nityalab.com and call at +91-191-2465597, +91-9873024393.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

5

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. Shndhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006591F	32.40	51.20	16.20	26.50	ND
2	11/12/2023	TC636623000006673F	33.60	56.40	17.40	30.40	ND
3	15/12/2023	TC636623000006746F	28.40	44.60	13.20	29.50	ND
4	18/12/2023	TC636623000006801F	32.00	48.30	18.40	21.50	ND
5	22/12/2023	TC636623000006897F	31.80	52.50	15.20	19.60	ND
6	26/12/2023	TC636623000006997F	30.40	55.10	16.20	31.40	ND
7	29/12/2023	TC636623000007129F	25.20	59.20	14.50	32.40	ND
NAAQM Standards			50	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VI, (Rule 2 (3B)), (Part-II sec-30) 16.11.2002, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



TC-6366



(AUTHORIZED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873004083

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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	07/12/2023	202310030112	ND
2	11/12/2023	202310060112	ND
3	15/12/2023	202310090112	ND
4	18/12/2023	202310120112	ND
5	22/12/2023	202310160112	ND
6	26/12/2023	202310220112	ND
7	29/12/2023	202310240112	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII (Rule 3 (2)(a)), (Part-I-sec-36) 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

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without the written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of report unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. This facility of Nitya Laboratories is limited to current amount only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9879036083

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006592F	28.40	47.50	15.40	25.40	ND
2	11/12/2023	TC636623000006674F	25.90	54.20	14.50	20.60	ND
3	15/12/2023	TC636623000006747F	24.70	52.40	16.20	24.50	ND
4	18/12/2023	TC636623000006802F	24.50	50.20	15.40	20.40	ND
5	22/12/2023	TC636623000006898F	20.30	56.20	18.20	19.20	ND
6	26/12/2023	TC636623000006998F	16.50	56.20	14.80	28.40	ND
7	29/12/2023	TC636623000007130F	25.90	46.20	16.30	30.60	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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

NOTE: The laboratory accepts the responsibility for content of report. The results mentioned in the test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate, unless otherwise specified. Any comments about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited (covered amount only). If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-987304383

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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	07/12/2023	202310030113	ND
2	11/12/2023	202310060113	ND
3	15/12/2023	202310090113	ND
4	18/12/2023	202310120113	ND
5	22/12/2023	202310160113	ND
6	26/12/2023	202310220113	ND
7	29/12/2023	202310240113	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQSS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (38)] (Part II sec. 3(i)) 10.11.2009. 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount only. If you have any complaint/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873824093.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO2) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006593F	29.40	28.60	22.40	28.60	ND
2	11/12/2023	TC636623000006675F	32.50	38.10	24.40	18.20	ND
3	15/12/2023	TC636623000006748F	19.60	36.10	26.20	21.50	ND
4	18/12/2023	TC636623000006803F	18.40	47.10	21.20	18.40	ND
5	22/12/2023	TC636623000006899F	23.20	48.20	31.90	28.40	ND
6	26/12/2023	TC636623000006999F	32.50	49.10	26.20	26.70	ND
7	29/12/2023	TC636623000007131F	28.40	44.20	24.40	31.50	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-VI, [Rule 3 (3B)], [Part II sec-3(i)] 18.11.2009, ND-Not Detected.
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling, CPCB Central Pollution Control Board.



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced without written, without written approval of the laboratory. This report is issued only for your guidance and not for legal purpose or for advertisement. The report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount paid only. If you have any sample/retest/feedback regarding the sample collection/testing/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9879324882.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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	07/12/2023	202310030114	ND
2	11/12/2023	202310060114	ND
3	15/12/2023	202310090114	ND
4	18/12/2023	202310120114	ND
5	22/12/2023	202310160114	ND
6	26/12/2023	202310220114	ND
7	29/12/2023	202310240114	ND
Test Method			PID Based Methane Analyser

Remark:

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

NITYA LABORATORIES
AUTHORISED
(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Sample will be destroyed after 30 days from the date of issue of report. If you have any complaints/feedback regarding the sample collection/testing/test result, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9673928961.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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 (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006594F	22.50	38.10	19.50	21.40	ND
2	11/12/2023	TC636623000006676F	24.40	30.40	17.20	20.90	ND
3	15/12/2023	TC636623000006749F	31.20	31.50	16.90	24.60	ND
4	18/12/2023	TC636623000006804F	25.40	24.40	17.90	32.20	ND
5	22/12/2023	TC636623000006900F	26.60	32.50	15.30	28.60	ND
6	26/12/2023	TC636623000007000F	28.80	28.40	15.90	27.30	ND
7	29/12/2023	TC636623000007132F	26.20	25.00	15.60	31.50	ND
NAAQM Standards			50	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (3B)], [Part-II-sec-3(i)] 18.11.2009, ND-Not Detected.
DL: Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for contents of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without the written approval of the laboratory. This report is intended only for your guidance and not for legal purposes or for advertisement. This report shall not be reproduced except in full without the written approval of the laboratory. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to amount of test fee only. If you have any complaint/feedback regarding the sample collection/test/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873624082.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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
			Methane (%)
1	07/12/2023	202310030115	ND
2	11/12/2023	202310060115	ND
3	15/12/2023	202310090115	ND
4	18/12/2023	202310120115	ND
5	22/12/2023	202310160115	ND
6	26/12/2023	202310220115	ND
7	29/12/2023	202310240115	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)], [Part-II-sec-3(i) 18.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board.



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reissued except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test report unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-0872624365.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006595F	29.60	31.20	19.20	25.60	ND
2	11/12/2023	TC636623000006677F	28.40	20.40	20.60	22.20	ND
3	15/12/2023	TC636623000006750F	26.20	29.40	22.50	27.50	ND
4	18/12/2023	TC636623000006805F	23.40	28.50	18.90	31.40	ND
5	22/12/2023	TC636623000006901F	22.40	34.00	18.40	19.20	ND
6	26/12/2023	TC636623000007001F	25.10	29.80	24.20	20.10	ND
7	29/12/2023	TC636623000007133F	23.90	34.20	23.60	22.30	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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



TC-6366



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report stated only to the sample tested. Test report shall not be used for any other purpose without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of report. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9872024953.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

Test Report Date: 06/01/2024

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	07/12/2023	202310030116	ND
2	11/12/2023	202310060116	ND
3	15/12/2023	202310090116	ND
4	18/12/2023	202310120116	ND
5	22/12/2023	202310160116	ND
6	26/12/2023	202310220116	ND
7	29/12/2023	202310240116	ND
Test Method			PID Based Methane Analyser

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, (Part 3 (B)), (Part-II-sec -2(i)) 15.11.2002, 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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report stated only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9072920053

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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. Shindhar

24 Hrs.

Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO ₂) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) mg/m^3
1	07/12/2023	TC636623000006596F	26.80	28.90	22.40	26.80	ND
2	11/12/2023	TC636623000006678F	25.40	32.40	21.50	33.60	ND
3	15/12/2023	TC636623000006751F	28.80	34.20	22.60	35.40	ND
4	18/12/2023	TC636623000006806F	31.40	48.20	23.90	31.30	ND
5	22/12/2023	TC636623000006902F	24.20	43.20	18.90	25.80	ND
6	26/12/2023	TC636623000007002F	23.20	38.20	16.80	23.40	ND
7	29/12/2023	TC636623000007134F	26.80	46.20	17.50	24.30	ND
NAAQM Standards			60	100	80	80	2
Test Method			49CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (2B)], [Part II-sec-3(i)] 15.11.2009, ND-Not Detected.
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



TC-6366



(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full without written approval of the laboratory. This report is intended only for your guidance and not for legal process or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount paid. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924083.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

Test Report Date: 06/01/2024

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	07/12/2023	202310030117	ND
2	11/12/2023	202310060117	ND
3	15/12/2023	202310090117	ND
4	18/12/2023	202310120117	ND
5	22/12/2023	202310160117	ND
6	26/12/2023	202310220117	ND
7	29/12/2023	202310240117	ND
Test Method			PID Based Methane Analyser

Remark:

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



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report issued only in the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full, without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about the report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to agreed amount only. If you have any complaint/feedback regarding the sample collection/analysis/report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-8872023997

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Reports of Wastewater (STP)


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. This report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reissued except in full without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited to the amount of fee paid. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9612628083

CORPORATE OFFICE & CENTRAL LABORATORIES :-

43, PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

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

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

ULR No.: TC635623000007078F-7079F
Test Report Date: 06/01/2024

Sample Particulars

Nature of the Sample	: Wastewater (STP)
Sample Quantity & Packaging	: 1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	: 01/01/2024
Test Started On	: 01/01/2024
Test Completed On	: 06/01/2024
Method of Sampling	: SOP/B/D-3
Date of Sampling	: 28/12/2023
Monitoring Conducted By	: Mr. Shridhar
Sample Description	: W-1: STP O/L of Admin Building W-2: STP O/L of Car Parking

Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH		7.42	7.11	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	118	266	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	40	30	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	8	7	30	IS:3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	486	689	<1000	IS:1622



(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full, without the written approval of the organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of test report. Total liability of Nitya Laboratories is limited to the amount paid for the test. If you have any complaints/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924883.

CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com