



**காமராஜர் துறைமுக நிறுவனம்**  
**कामराजर पोर्ट लिमिटेड**  
**Kamarajar Port Limited**

(A company of Chennai Port Trust)  
 (Ministry of Ports, Shipping and Waterways - Government of India)



**फाइल संख्या: KPL/MS/HSE/ENV/MoEFCC/2024**

**तारीख: 17.06.2025**

सेवा में/To,

**The Deputy Director General of Forests (C),**  
 Ministry of Environment, Forest and Climate Change (MoEFCC),  
 Regional Office (SEZ), 1<sup>st</sup> Floor,  
 Addl. Office Block for GPOA, Sastri Bhawan,  
 Haddows Road, Nungambakkam, Chennai – 600 006.

महोदय/Sir,

**विषय/Sub:** Submission of Half-yearly compliance report on the conditions stipulated vide Environmental Clearance letters issued to various projects of Kamarajar Port – October 2024 to March 2025 - reg.

Please find enclosed herewith the compliance reports for the period of April 2024 to September 2024, on the conditions put forth by Ministry of Environment & Forests and Climate change, in the environmental clearances issued for the following projects.

1. Construction of new Satellite Port at Ennore, near Madras. Ministry's letter Ref: J-16011/9/87-IA, III dated 28.9.1992.
2. Development of Terminals for marine liquids, coal, iron and containers in second phase and associated capital dredging at Ennore port. Ministry's letter F. No. 10-28/2005-IA-III dated 19<sup>th</sup> May, 2006.
3. Development of Terminals for marine liquids, coal, iron and containers in second phase and associated capital dredging at Ennore port. Ministry's letter F. No. 10-28/2005-IA-III dated 10<sup>th</sup> September, 2007.
4. CRZ and Environmental clearance for the construction of General Cargo Berth at Ennore port cargo terminal project. MoEF Letter F.No.11-21/2009-IA-III dated 23.7.2009.
5. Expansion and modernization of existing handling of Multicargo container terminal at Kamarajar Port by M/s. Kamarajar Port Limited - Environmental and CRZ clearance (Development of Multicargo berth (270m) and container terminal (730m). MoEF's letter F.No. 10-28/2005-IA-III dated 24.12.2014.

**Registered Office:**  
 Jewahar Building, No.17,  
 Rajaji Salai, Chennai - 600 001.  
 Phone : 044 - 2525 1666 - 70  
 Fax : 044 - 2525 1665  
 CIN : U45203TN1999PLC043322

**पंजीकृत कार्यालय :**  
 जवाहर बिल्डिंग, नं.17,  
 राजाजी साली, चेन्नई - 600 001.  
 फोन : 044 25251666 - 70  
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**Port Office :** Vellur Post, Chennai - 600 120  
 Phone : 044 - 27950030 - 40 Fax : 044 - 27950002  
**पोर्ट कार्यालय :** वल्लूर पोस्ट, चेन्नई - 600 120  
 फोन : 044 - 27950030 - 40 फैक्स : 044 - 27950002  
 टीन प्रो संख्या : TOLL FREE NUMBER : 1800 - 425 - 1203

:2:

6. Development of additional coal berths (CB3 and CB4) at Kamarajar Port, Tamil Nadu by M/s. KPL Environmental and CRZ clearance –MoEF's Letter F.No. 11-51/2012-IA-III dated 12.03.2015.
7. Development of facilities envisaged in the Port Master Plan (Phase-III) by M/s Kamarajar Port Limited – MoEF's letter F. No. 11-51/2012-IA-III dated 30.10.2018.
8. CRZ Clearance for Establishment of 1MLD RO Desalination Plant at M/s.Kamarajar Port Ltd., by M/s. M/s.Kamarajar Port Ltd., Vallur Post, Chennai, Tamilnadu.

While the modification of iron ore terminal to handle coal by M/s SICAL Iron Ore Terminal Ltd, was in progress after grant of Environmental Clearance from Ministry, the Lender to the project M/s YES Bank Ltd, has given notice for 'Event of financial default on M/s SICAL Iron Ore Terminal Ltd., (SIOTL) to KPL on 07.11.2020. Accordingly, in line with the License agreement, KPL has served "Notice of Intent to Terminate" to M/s SICAL Iron Ore Terminal Ltd on 20.12.2020. Subsequent to that, the License Agreement No. 20 of 2016 dated 11.7.2016 executed between KPL and M/s SIOTL stands terminated with effect from 19.6.2021 consequent to issuance of Termination Notice dated 22.3.2021 by KPL. As directed by the Committee of Creditors, the liquidation process of M/s SICAL Iron Ore Terminal Ltd., is in progress.

Consequent to that, the project 'Modification of Iron Ore Terminal to handle Coal' is presently stalled due to the above said reasons; hence the half-yearly compliance report for the said project is not included in the above list.

This is for kind information and records please.

Yours faithfully,



**Chief Manager (HSE)**

**Encl:** As above.

**Cc to: 1. Regional Director,** Scientist-E, Central Pollution Control Board, Regional Office, Chennai, Email:vlaxmi@cpcb.nic.in

**2. The District Environmental Engineer,** 88/A, SIPCOT Industrial Area, Gummidipoondi, Thiruvallur-601201, Email:deegummidipoondi@gmail.com

# **KAMARAJAR PORT LIMITED**



## **Compliance Report**

**On**

**Ministry's guidelines**

**for**

**“CONSTRUCTION OF NEW SATELLITE PORT AT ENNORE”**

**CONDITIONS COMPLIED AS PER THE GUIDELINES OF THE MINISTRY OF ENVIRONMENT AND FOREST ISSUED VIDE LETTER DATED 28/09/1992**

**Ref: J-16011/9/87-IA, III dated 28.9.1992**

Ennore Port was planned and developed for receiving coal exclusively for Thermal Power stations of Tamil Nadu Electricity Board (TANGEDCO). Ennore Port was declared as major port on March 23, 1999. Ennore Port is the first Major Port incorporated as a company under the Companies Act, 1956 on October 11, 1999. Ennore Port has been renamed as Kamarajar Port in the year 2017. **The commercial operation of Port was started on June 22, 2001.**

<b>S.No</b>	<b>MoEF Guidelines</b>	<b>Compliance report</b>
(i)	The total land area of the Project should be limited to 400 Ha as proposed	<p>As per Environment clearance letter issued by Ministry of Environment &amp; Forests for the “Construction of new satellite port at Ennore near Madras in Tamilnadu” vide letter dated 28.9.1992, the total land area accorded was 400 ha. Subsequently port had developed new projects under Phase-II and port has developed various new projects phase wise.</p> <p>Port has acquired 950 Acres of land from TIDCO during the year 2002 and obtained Environment &amp; CRZ clearance for the development of second phase project at KPL. The stack yard for the coal, iron ore, tank farm for Marine Liquid Terminal were developed in these lands. Ministry of Environment &amp; Forests had accorded Environment and CRZ clearances vide No. 10-28/2005-IA-III dated 19th May 2006.</p> <p>For subsequent developments, Port had acquired 679 Acres of land from Salt Department during the year 2010 &amp; 2014. The lands were meant for the development of stackyard for additional Coal berths (CB3&amp;4). Ministry of Environment &amp; Forests had accorded Environment and CRZ clearances vide letter No. F.No.11-</p>

		<p>51/2012-IA.III dated 12th March 2015.</p> <p>The total land area of port is 2787.29 Acres. The remaining portion of the land is shown in the Development of facilities envisaged in the Port master plan project, for which Environment &amp; CRZ clearance is sought. At present, the total Port area is 1128.45 Ha. The details of land procured by KPL is tabulated and enclosed herewith as <b>Annexure-I.</b></p>
(ii)	Hill features of Karikkal and Bodiparai hills should not be destroyed for the construction of breakwater since this will drastically change the landscape.	No quarrying operation was carried out in Bodiparai hill. After completion of construction of the breakwaters, the quarry was handed over to District Collector, Vellore by the Chennai Port vide letter No.11/6828/96/E dated 07.01.2002, along with abandonment certificate for closure of Karikkal quarry issued by Directorate of Mines, Safety Oorgaum.
(iii)	Quarrying operations must be carried out with utmost care giving consideration to the topography, vegetation and drainage system in consultation with expert institutions like Centre for Mining Environment, Indian School of Mines, Dhanbad. Quarrying site must be rehabilitated properly keeping in view such measures as proper terracing, additional top soil and reforestation. Major blasting in the port area should not be undertaken;	<p><b>Complied with.</b></p> <p>Chennai Port Authority had informed that rehabilitation of the quarry site was taken up and restored. Director of Mines safety, Oorgaum had issued Abandonment Certificate for closure of Karikkal quarry.</p>
(iv)	A detailed Environment Management Plan should be prepared for each of the quarry site proposed and proper landscaping should form part of these operations. This should be included as a condition in the contracts. Its full implementation is the responsibility of the project authorities;	<b>Noted and complied with.</b>

(v)	<p>Alternate sources of water supply other than tapping of ground water through bore wells must be explored to avoid intrusion of salt water since fresh water is scarce in the island. A specific study should be undertaken on the ground water potential, recharge capacity, present drawl and future plans in an integrated manner. State/central ground Water Board should be fully involved in this study. The report should be submitted within one year.</p>	<p><b>Complied with.</b></p> <p>The water for construction, drinking, etc., is brought in the trucks and no deep bore wells are constructed in the project area.</p>
(vi)	<p>Dredging operations must be undertaken in stages in consultation with some expert institution like CWPRS, in such a way as to ensure that these operations do not deteriorate the surface water quality which must be maintained within the prescribed standards. Water parameters should be measured on regular intervals to monitor water quality. Dredging material should not be used for filling up any water body;</p>	<p><b>Complied with.</b></p>
(vii)	<p>Large scale dumping of waste shall not be undertaken by the Project Authorities without clearance from the environment angle. This is to ensure that marine ecology of the area is not affected by dumping in the marshy lagoon/low level areas;</p>	<p><b>Complied with.</b></p>

(viii)	<p>A green belt of appropriate width (say 200 meters) must be provided along the periphery of the port excluding the water area. Adequate provision for the initial cost for greening and maintenance has to be made in the project cost and subsequent annual budget for the port;</p>	<p><b>Complied.</b></p> <p>In 1992 the port was conceived as a satellite port to handle coal through two coal berths. Environment clearance was issued to develop green belt in an area of 15 Hectares. However, the port diversified into a multi-cargo port and subsequently a land use plan was developed.</p> <p>At present port is having a green belt area of 636.14 acres which includes a green belt (planted) 210.74 acres, green cover (natural) 349.26 and mangroves in an area of 76.14 acres.</p> <p>Port is continuously developing green belt area. The expenditure incurred during last three years for the development of green belt are as below.  2021-22= Rs.16,78,418  2022-23= Rs.28,90,355  2023-24= Rs.46,57,794  2024-25=Rs.56,77,518</p> <p>Port has proposal to increase the green belt extent upto 690.77Acres in a phased manner.</p>
(ix)	<p>Green belt development of 50 ha of land instead of 25 ha proposed inside the port should be developed. This may spread in different pockets in vacant areas and need not be concentrated on one area. Apart from this green belt area of about 5.00 million sq m available in the island should be sustained by providing proper maintenance. Appropriate fund allocation towards initial cost for greening and maintenance of 50 ha of land and 5.00 million sq m available in the island has to be provided in the project cost and in the subsequent annual budget of the port;</p>	<p>Port has acquired additional land from various Government authorities only like TIDCO, TNEB, salt Department, except 31.97 Acres of land which was transferred from private party (patta land). At present total Port area is 1128.45 Ha.</p> <p>At present port is having a green belt area of 636.1 acres which includes a green belt (planted) 210.74 acres, green cover (natural) 349.26 and mangroves in an area of 76.14 acres.</p> <p>Port has proposal to increase the green belt extent upto 690.77Acres in a phased manner.</p>

(x)	Suitable low lying areas should be identified for mangrove plantation and provision of the required amount must be made for this purpose in the project cost by the project authorities;	<b>Complied with.</b>  Port in association with Tamilnadu Forest Department had identified and planted mangroves along the coast line between Ennore and Pulicat. Tamilnadu Forest Department vide letter no. D2/6240/99 dated 05.09.2003 has informed to dig channels and planting of mangrove species at Thangal Perungalam (7.75ha) and at Kalanchi (7.5ha) respectively. The same are complied with.
(xi)	The project authorities must ensure that no cutting of trees take up place in the project area.	No cutting of trees is done.
(xii)	With the operation of Ennore Port as a measure of decongestion of Madras port the traffic in Madras port must be gradually reduced. Ministry of Surface Transport, Madras Port Trust and Ennore Port Trust must ensure that adequate measures in this regard are taken.	<b>Complied with.</b>  Handling of Thermal coal for TNEB is completely shifted from Chennai port to Kamarajar Port (Ennore port).
(xiii)	To control dust pollution from coal, following measures must be adopted.  (a) Totally enclosed continuous loaders / un-loaders and conveyor system should be adopted  (b) Dust extraction system should be provided at all transfer points to minimize dust generation during stacking, loading, transferring operations as well as to minimize wind blown dust from the stack yard, proper water spraying should be done.	<b>Complied with.</b>  The following measures are taken to control the dust.  Dust pollution preventive measures have been taken up by TNEB, the operators of the Berths. Coal from the ship is unloaded through shore based gantry cranes with grab un-loaders and fed to the conveyor system to the thermal power plant. No coal is stored inside the port.  In addition to the covered conveyor system, water sprinklers have been provided in the hoppers for suppression of coal dust

		<p>emanating while discharging coal from the vessels. Cleaning up of the operational area/jetty after every unloading operation to prevent pilling up of material is being done.</p> <p>The coal is stored inside North Chennai Thermal Power Station.</p>
(xiv)	<p>Air pollution monitoring stations at strategic locations must be set up in the port area and in the neighborhood for monitoring dust/particulate matter at regular intervals. Adequate funds must be allocated towards this in the project cost.</p>	<p><b>Complied with.</b></p> <p>Kamarajar Port is continuously monitoring the environmental air pollution. KPL has engaged M/s. Nitya Laboratories (MoEF &amp; CC and NABL accredited laboratory) to carry out the periodical monitoring, testing and analysis of Ambient air quality, Marine water quality, creek water quality, Noise levels in the port area. Adequate funds are allocated to this project.</p>
(xv)	<p>To contain noise levels within the prescribed standards roofed conveyor belts should be deployed. Noise pollution in the port area should be reduced by putting up sound barriers at suitable locations. To protect the workers from high noise levels ear muffs/plugs should be provided.</p>	<p><b>Complied with.</b></p> <p>The coal is unloaded from the ships and transferred to the thermal power station through elevated closed conveyor system. There is no generation of noise pollution during the operations. Noise levels at the work zones were monitored regularly. However workers working in the berth area are also provided PPE like hard hat, ear muffs/plugs etc.</p>
(xvi)	<p>Water pollution monitoring stations at strategic points must be set up in the project area to monitor water quality and marine pollution at regular intervals.</p>	<p><b>Complied with.</b></p> <p>Kamarajar Port is continuously monitoring the environment. KPL has engaged M/s. Nitya Laboratories (MoEF &amp; CC/NABL certified) to carry out the periodical monitoring, testing and analysis of Marine water quality, creek surface water quality in the port area.</p>

(xvii)	To contain accidental spillage of oil, the project authorities should deploy oil booms, multipurpose anti pollution craft, oil recovery cum reception craft, chemical dispersant and other equipment such as shovels, swabs, waste collection bags, etc.	<p><b>Complied with.</b></p> <p>KPL falls under category B. Port is having oil spill contingency plan prepared in line with NOS-DCP. Necessary chemicals, booms, dispersants, etc. are readily available for containment of any accidental spill of Tier-I category.</p>
(xviii)	An environment division must be set up in Ennore port headed by Environment Manager with appropriate strength of Environment Engineers, Forest officers, forest guards and other laboratory staff. An environmental laboratory for Air Water and solid waste monitoring must be set up with adequate equipment and qualified staff. Adequate fund for establishment of laboratory must be provided in the project cost. The annual recurring cost for the laboratory and Environmental Division must be provided for in the annual budget of the port.	<p><b>Complied with.</b></p> <p>Port is having Environmental Cell under HSE-Division of Marine Services Department, headed by General Manager (MS). The compliance of Environmental Management Plan of the Port is being monitored by Environmental Cell of HSE division.</p> <p>Port has engaged M/s. Nitya Laboratories, an MoEF &amp; CC recognized and NABL accredited laboratory to carry out the regular sampling and testing of various environmental parameters.</p> <p>Tamilnadu Pollution Control Board also monitors the Ambient Air Quality and Noise levels inside the port. The air quality level are found well within the limits. A copy of the report is enclosed herewith.</p> <p>The details of expenditure incurred towards Environmental management by KPL during the compliance period is Rs.55,30,000/- (Excl.GST), furnished herewith as below:</p> <ol style="list-style-type: none"> <li>1. Environmental Monitoring = Rs. 8,70,000/- (Excl. GST).</li> <li>2. Solid Waste Management = Rs. 29,64,000/- (Excl. GST).</li> <li>3. Greenbelt plantation &amp; Maintenance = Rs. 5,26,000/- (Excl. GST).</li> <li>4. O&amp;M Cost for STPs = Rs.11,70,000/-</li> </ol>

		(Excl. GST).
(xix)	The Ennore Port Trust authorities must draw up a Disaster Management Plan and get it approved by the nodal department of the state Government and forwards it to the Ministry for approval.	<p><b>Complied with.</b></p> <p>Port is having a Crisis Management Plan and Disaster management Plan. However, with the subsequent development of various new projects phase wise, Port had updated the Disaster Management Plan in line with National Disaster Management Authority Guidelines 2019 and forwarded it to Indian Register of Shipping for vetting.</p>
(xx)	Adequate measure must be taken to protect the Pulicat Lake, a bird sanctuary for several species of resident and migratory water birds and having potential for fishing as an important economic activity of the area.	<p><b>Complied with.</b></p> <p>The Pulicat lake is situated about 20KM away from the location of the Kamarajar port.</p>
(xxi)	A Monitoring Committee will be set up by the project authorities to review the implementation of the above conditions with representatives from MoEF, State forest Department, State pollution Control Board and representative of Port Authority.	<p><b>Complied with.</b></p> <p>A monitoring committee with representatives from MoEF, State Forest department, State Pollution Control Board, Tamilnadu Electricity Board and Port officials was constituted then. They had conducted ten Environmental Monitoring committee meetings and reviewed the implementation of MoEFCC conditions.</p>
(xxii)	The quality of treated effluents, solid wastes, emissions and noise levels, etc., must confirm to the standards laid down by the competent authorities including Central/State Pollution Control Board and under the Environment (Protection) Act 1986 whichever area more stringent.	<p><b>Complied with.</b></p> <p>KPL has engaged M/s. Nitya Laboratories, a MoEFCC recognized and NABL accredited laboratory to carry out the periodical monitoring, testing and analysis of Air, Noise, Marine water quality, creek water quality, sediment quality and ground water quality in the port area. The environmental parameters are found to be well within the standards prescribed by Central/State Pollution Control Boards.</p> <p>Tamilnadu Pollution Control Board is also monitoring the Ambient Air Quality and</p>

		Noise levels inside the port. All the parameters are found to be well within the limits. A copy of the report is enclosed herewith.
(xxiii)	The project authorities must ensure that project out sees if any must be adequately compensated and rehabilitated.	<p><b>Complied with.</b></p> <p>The Project outsees were properly compensated and rehabilitated at the time of land acquisition by the TNEB, Govt of Tamilnadu.</p>
3.	Adequate financial provision must be made in the Project estimates and the annual budget to meet the financial requirement for the implementation of aforesaid safeguards. The funds so provided item wise should not be diverted for any other purpose.	<p><b>Complied with.</b></p> <p>Port is having Environmental Cell under HSE-Division of Marine Services Department, headed by General Manager (MS). The compliance of Environmental Management Plan of the Port is being monitored by Environmental Cell of HSE division.</p> <p>Port has engaged M/s. Nitya Laboratories, an MoEF &amp; CC recognized and NABL accredited laboratory to carry out the regular sampling and testing of various environmental parameters.</p> <p>Tamilnadu Pollution Control Board also monitors the Ambient Air Quality and Noise levels inside the port. The air quality level are found well within the limits. A copy of the report is enclosed herewith.</p> <p>The details of expenditure incurred towards Environmental management by KPL during the compliance period is Rs.55,30,000/- (Excl.GST), furnished herewith as below:</p> <ol style="list-style-type: none"> <li>1. Environmental Monitoring = Rs. 8,70,000/- (Excl. GST).</li> <li>2. Solid Waste Management = Rs. 29,64,000/- (Excl. GST).</li> <li>3. Greenbelt plantation &amp; Maintenance =</li> </ol>

		Rs. 5,26,000/- (Excl. GST).  4. O&M Cost for STPs = Rs.11,70,000/- (Excl. GST).
4.	In case of any deviations/alterations in the project proposal from those submitted to this Ministry for clearance and on the basis of EIA findings these stipulations may be modified and/or new ones imposed for ensuring environmental protection.	The deviations/alterations in the approved project proposal have been ratified by the MoEFCC. A report was sent to MoEFCC on 17.02.2001. The deviation was ratified by MoEF & CC vide letter no. J-16001/9/87-IA-III, dated 03.01.2001.

**Annexure-I**

**KAMARAJAR PORT LIMITED**  
(A company of Chennai Port Trust)

**Details of Land Owned by Kamarajar Port Limited**

<b>S.No</b>	<b>Descriptions</b>	<b>Extent</b>	<b>Handed over on</b>
1.	Land transferred from Tamil Nadu Electricity Board	995.05 Acres	28.10.1994
2.	Poramboke land (Govt. of Tamilnadu) TNEB	97.15 Acres	28.10.1994
3.	Poramboke land (Govt. of Tamilnadu) TIDCO	2.36 Acres	29.05.2002
4.	Land transferred from TIDCO	947.65 Acres	29.05.2002
5.	Land transferred from Private Party (Patta land) Vallur village	31.97 Acres	08.03.2005
6(i).	Land transferred from Salt Department	29.76 Acres	07.09.1996
6(ii).	Land transferred from Salt Department	35.00 Acres	31.05.2010
6(iii).	Land transferred from Salt Department	647.66 Acres	28.02.2014
7.	Land transferred railway siding (Athipattu Village)	0.69 Acres	21.10.2014
	<b>Total</b>	<b>2787.29 Acres (1128.45 Ha)</b>	

**KAMARAJAR PORT LIMITED**  
**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE**  
**31st MARCH, 2025**

**PART – A**

<b>S. No</b>	<b>Description</b>	<b>Remarks</b>
1.	Name and address	Kamarajar Port Limited, Vallur Post, Near NCTPS, Chennai-120.
2.	Type of Cargo handled	Coal for Thermal Power Plants of TANGEDCO
3.	Industry category Primary (STC Code) Secondary (SIC Code)	Major port under the administrative control of Ministry of shipping, GOI.
4.	Cargo handling capacity as per CTO	16 Million Metric Tons Per Annum
5.	Date of start of commercial operation	22.06.2001

**PART – B**

**(1) Water and Raw Material Consumption**

**Water consumption m<sup>3</sup>/d:** 7.4 KL per Day for this terminal.

**Process/sprinkling:** Water sprinklers are put in place to suppress the dust rises if any. The cargo unloaded from the ships is directly transferred to the stackyards of NCTPS (TANGEDCO units) through closed elevated conveyors. No process takes place inside the port.

**Cooling:** Nil.

**Domestic:** Nil

**Any other:** Nil

<b>Name of Cargo handled</b>	<b>Process water consumption per unit of product output (per Annum)</b>	
	<b><i>During the previous financial year (2023-24)</i></b>	<b><i>During the Current financial year (2024-25)</i></b>
Thermal Coal	Coal is handled at the terminal for the exclusive use of Thermal Power Plants of TANGEDCO	

**(2) Raw Material Consumption (if applicable)**

*Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the financial year 2023-24	During the financial Year 2024-25
Coal	Coal	14.89 MTPA	14.89 MTPA

\*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

**PART - C****Pollution discharged to environment/unit of output  
(Parameter as specified in the consent issued)**

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
Water	No wastes are discharged into the marine/surface water bodies. Port is monitoring the surface and marine water quality through M/s. Nitya Laboratories (MoEF & CC/NABL certified laboratory) on quarterly basis. The results of analysis are found to be well within the prescribed standards by the CPCB. The reports are submitted to Tamil Nadu Pollution Control Board.		
Air	<p>No stacks are there inside the port. The cargo unloaded from the ships is directly transferred to the stackyards of NCTPS (TANGEDCO units) through closed elevated conveyors. All dust suppression measures are put in place to control dust emissions, if any.</p> <p>KPL is monitoring various environmental parameters through M/s. Nitya Laboratories, an MoEF &amp; CC recognised and NABL accredited Labaoratory). The ambient air quality is monitored at eight different locations inside the port area. The results of analysis are found to be well within the prescribed standards by the CPCB. The monthly monitoring reports are being submitted to Tamilnadu Pollution Control Board.</p> <p>Tamil Nadu Pollution Control Board also monitors the Ambient Air Quality and Noise Quality standards in the terminal annually. The results of analysis are found to be well within the standards prescribed by the CPCB.</p>		

**PART – D**  
**Hazardous Wastes**

**(As specified under Hazardous and other wastes Transboundary Rules, 2016)**

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous Financial Year 2023-24	During the Financial year 2024-25
Source of Hazardous waste generation	No hazardous wastes are generated.	
Disposal procedure	Not Applicable.	
Quantity disposed	Not Applicable.	
Any other details	The cargo unloaded from the ships is directly transferred to the stackyards of NCTPS (TANGEDCO units) through closed elevated conveyors. Water sprinklers are put in place to suppress the dust rises if any.	

**PART – E**  
**Solid Wastes**

Solid Wastes	Total Quantity (M <sup>3</sup> )	
	During the Financial Year 2023-24	During the Financial Year 2024-25
Quantity collection	The total collected quantity from terminal and ships calling at the terminal is about 283 Cu.M	The collected total quantity from terminal and ships calling at the terminal is about is 256 Cu.M
Source of solid waste generation	Solid waste generated in the port is of domestic wastes likes, paper, packing material, water bottles, etc.  Ship generated wastes include paper, plastic cans, metal drums, e-wastes, food waste, ropes, wooden packing material, etc.,	
Disposal procedure	As per MARPOL regulations, every port has to provide reception facility for the disposal of ship generated wastes. Accordingly port has engaged a contractor for the collection of wastes from the ships. The collected wastes are segregated into different categories and sent to various recyclers for further beneficial use.	
Quantity disposed	The disposed quantity from port and ships is 283 Cu.M	The disposed quantity from port and ships is 283 Cu.M
Any other details	NIL	

## **PART – F**

**Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

Port has Waste Oil, sewage & Other Wastes Reception Facilities Policy, 2019. The generated oily wastes from the ships are disposed off through CPCB/SPCB approved recyclers.

Solid waste generated in the port is of domestic wastes like paper, packing material, water bottles, etc. and ship generated wastes including paper, plastic cans, metal drums, e-wastes, food waste, ropes, wooden packing material, etc.

As per MARPOL regulations, reception facility, port has facilitated for collection and disposal of ship generated wastes. The collected waste is segregated into different categories and sent to various recyclers for further beneficial use.

## **PART – G**

**Impact of pollution abatement measures taken towards conservation of natural resources and the cost of production**

The cargo unloaded from the ships is directly transferred to the stackyards of NCTPS (TANGEDCO units) through closed elevated conveyors system operated by electrical power rather than the conventional mode of transportation through trucks operated by diesel power thereby reducing the fossil fuel consumption.

Moreover, Port has developed a green belt of 636.14 acres inside and outside the custom bound areas which acts as a barrier for dust emissions and pollutants.

## **PART – H**

**Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution**

Port's Environmental Management Plan (EMP) is aimed at mitigating the possible adverse impacts of projects and for ensuring maintenance of the existing environmental quality.

Port has facilitated the ships with reception facilities as per MARPOL regulations for ships for disposal of wastes under Annex-I, II, IV, and Annex-V (Garbage). The septic wastes are treated through tanks/soak pits.

Workers are provided with PPEs like ear protection devices, masks, gloves and helmets. Emergency/Crisis Response Plan that covers situations such as cyclones, marine accidents, bomb threats, fire, explosion and accidents is in place. Port is having oil spill contingency plan prepared in line with National Oil Spill Disaster Contingency plan (NOS-DCP).

## **PART – I**

**Any other particulars for improving the quality of the environment.**

Nil



**TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

From

D. Balasubramanian.M.Sc., B.Ed.,  
Deputy Chief Scientific Officer,  
District Environmental Laboratory, Manali  
Tamil Nadu Pollution Control Board,  
950/1, Ponnamallee High Road,  
Arumbakkam,  
Chennai-106

To

M/s. Kamarajar Port Ltd.,  
(Coal Berth)  
Vallur Post,  
Chennai - 600 120.



To

Gm(MS)

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality /  
Stack Monitoring / Ambient Noise Level Survey - Reg.

- Ref: 1. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.43/2024-25, dt:23.05.2024  
2. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.43/2024-25, dt:10.10.2024  
3. Your Lr.No.KPL/MS/HSE/Env/AAQ-Survey/2024-25 dt:02.07.2024  
4. Your Lr.No.KPL/MS/HSE/TNPCB/AAQ-Survey/2024-25 dt:03.12.2024  
5. Cash Receipt No.266 Dt:02.07.2024 Rs.62,500/-  
6. Cash Receipt No.413 Dt:03.12.2024 Rs.3,440/-

I am herewith sending the Report of Analysis of Ambient Air Quality / Stack Monitoring / Ambient Noise Level Survey conducted in the vicinity of your industry M/s. Kamarajar Port Ltd., (Coal Berth) Vallur Post, Chennai - 120 on 28.01.2025 with an invoice for a sum of Rs. 65,940/- (Rupees Sixty Five Thousand Nine Hundred and Forty Only) towards the above survey / analytical charges, and the same has been adjusted vide reference (3) cited.

Kindly acknowledge the receipt of the above without fail.

  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali

Encl.: As above.

Copy submitted to:

1. The Joint Chief Environmental Engineer, TNPC Bd. Chennai for favour of kind information please.
2. The District Environmental Engineer, TNPC Bd. Gummidipoondi for favour of kind information please.
3. Copy to file.



# TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

## AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 65 /AAQS/2024-25

Date: 11.03.2025

1. Name of the Industry	M/s. Kamarajar Port Ltd., (Coal Berth)
2. Address of the Industry	Vallur Post, Chennai – 120.
3. Date of Survey	28.01.2025
4. Duration of Survey	8 Hours / 24 hours
5. Category	Red / Orange / Green <u>Large</u> / Medium / Small
6. Land use classification	<u>Industrial</u> / Commercial / Residential / Sensitive

### Meteorological Conditions

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	24	28		59	67
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	SW- NE		Mean Wind Speed (km/hr)	8.0	

### Ambient Air Quality Survey Results

Sl No.	Location	Direction *	Distance (m) *	Height From Gr. (m)	Pollutants Concentration (microgram / m <sup>3</sup> )			
					PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>2</sub>
1	On top of Platform near Chettinad SS.	NE	50	2.0	31	73	12	22
2	On top of Platform near Dock.	ESE	100	2.0	--	82	16	24
3	On top of Platform near Control Tower.	SE	100	2.0	--	95	17	26
4	On building top of Main Gate	W	250	2.0	25	58	14	21
5	On top of platform near Guest House	NW	350	2.0	--	70	13	20
6	On top of Platform near Admin	NNW	200	2.0	--	67	14	23

Note: \* With respect to major emission sources. The analytical results are restricted to the sampling period of 8 hrs/24hrs

*[Signature]*  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO <sub>2</sub>	Modified West - Gaeke / IS 5182 : (Part 2) -- 2001 RA: 2012
NO <sub>2</sub>	Jacobs – Hochheiser / IS 5182 : (Part 6) - 2006 RA:2012



# **TAMILNADU POLLUTION CONTROL BOARD**

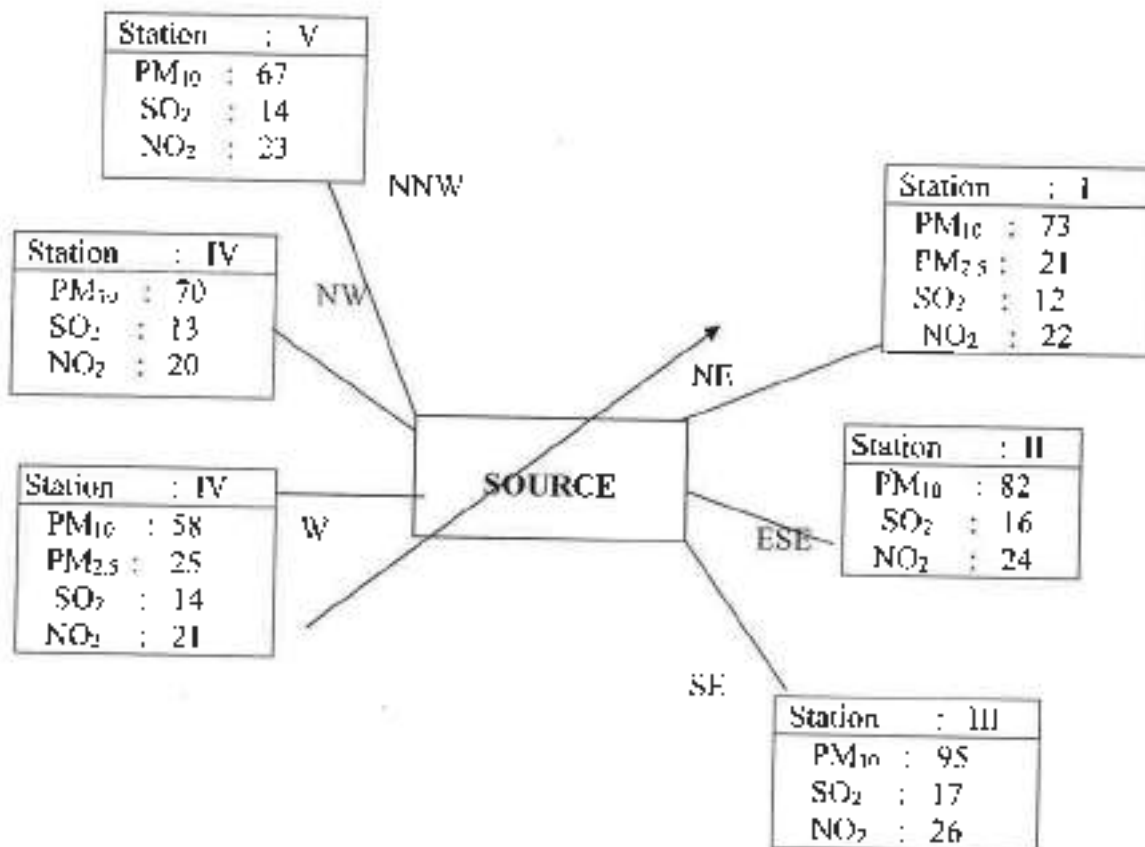
District Environmental Laboratory, Manali

## **AMBIENT AIR QUALITY SURVEY** Schematic Diagram Showing Location of Sampling

Report No. 65/AAQ/SM/2024-25

Name and Address of the Industry : **M/s. Kamarajar Port Ltd., (Coal Berth)**  
Vallur Post, Chennai - 120.

Date of Survey : 28.01.2025



Note: All the values are expressed in  $\mu\text{g}/\text{m}^3$  and restricted to sampling period of 8 hrs/24hrs

Meteorological Conditions:	
Predominant Wind Direction	SW- NE
Wind Speed (Km/hr)	8.0
Weather Condition	Partially Cloudy
Rainfall	Nil

  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

**AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis**

**Report No. 65/NLS/2024-25**

**Date: 11.03.2025**

1.	Name of the Industry	M/s. Kamarajar Port Ltd., (Coal Berth)		
2.	Address of the Industry	Vallur Post, Chennai - 120.		
3.	Date of Survey	28.01.2025		
Category		RL	Land use Classification	Industrial
Type of Survey		Ambient/Source	Time of Survey	Day
Meteorological conditions			Calm/Windy/Rainy	Windy

**Logging Parameters**

Logging Parameters											
Instrument Used		CESVA Model SC310		Serial No		T243103					
Logging Interval		10 Minutes each point		Measuring Range		50-110 dB(A)					
Weighting		"A"		Peak Weighting		"C"		Time Weighting		FAST	
Sound Incidence		RANDOM		Time in hrs		14.00 – 15.30					

**Report of Noise Level Monitoring**

Sl. No	Location	Duration (min)	Distance (m)	Direction	Sound Level -dB(A)		
					Leq	Min	Max
1	Near Chettinad SS	10	50	NE	58.5	52.5	75.1
2	Near Dock	10	100	ESE	58.1	55.6	76.1
3	Near Control Tower	10	100	SE	54.6	54.2	83.4
4	Near Main Gate	10	350	NW	60.4	57.4	73.1
5	Near Guest House	10	250	W	52.7	49.8	76.8
6	Near Admin	10	200	NNW	51.2	48.4	67.7

**Note:** Leq value is the average energy for the measured period.

  
**Deputy Chief Scientific Officer**  
**District Environmental Laboratory**  
**Tamil Nadu Pollution Control Board**  
**Manali**



# **TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

## **INFERENCE REPORT ON A.A.Q.S/ S.M.**

1. Name of Industry : M/s. Kamarajar Port Ltd., (Coal Berth)  
Valur Port, Chennai - 120.
2. Pollution Category : Red Large
3. Date of A.A.Q. Survey : 28.01.2025
4. Predominant Wind Direction : SW - NE
5. Weather condition : Partially Cloudy

### **STATUS OF POLLUTANTS LEVEL**

#### **I. AMBIENT AIR QUALITY :-**

1. Total No. of A.A.Q. stations monitored : 6
2. No. of A.A.Q. stations in which Pollutants  
Level exceeded the Boards standards : Nil

Maximum and Minimum values of Pollutants Level observed:

Sl. No	POLLUTANT	Values in microgram/m <sup>3</sup>		BOARD'S STANDARD (As per consent order)
		Maximum	Minimum	
1.	PM <sub>10</sub>	95	58	100
2.	PM <sub>2.5</sub>	25	21	60
	<u>GASEOUS</u>			
	<u>POLLUTANTS:-</u>			
	(i) SO <sub>2</sub>	17	12	80
	(ii) NO <sub>2</sub>	26	20	80

#### **II. STACK MONITORING:-**

1. Total No. of Stacks Monitored : --
2. No. of Stacks in which Pollutants level  
Exceeded the Boards standards : Nil

  
 Deputy Chief Scientific Officer  
 District Environmental Laboratory  
 Tamil Nadu Pollution Control Board  
 Manali

**TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

**BILL****Report No. 65/AAQ/SM/2024-25**

Bill No.	65/2024-25
Date	11.03.2025

To

**M/s. Kamarajar Port Ltd., (Coal Berth)**

Vallur Post, Chennai – 120.

- Ref: 1. B.PMs.No.6 Dt.31.03.2009.  
 2. This office Lr.No. TNPCB/DEI/MNL/AAQS/SM/NLS/F.No.43/2024-25, dt:23.05.2024  
 3. This office Lr.No. TNPCB/DEI/MNL/AAQS/SM/NLS/F.No.43/2024-25, dt:10.10.2024  
 4. Your Lr.No.KPL/MS/HSE/Env/AAQ-Survey/2024-25 dt:02.07.2024  
 5. Your Lr.No.KPL/MS/HSE/TNPCB/AAQ-Survey/2024-25 dt:03.12.2024  
 6. Cash Receipt No.266 Dt: 02.07.2024 Rs 62,500/-  
 7. Cash Receipt No.413 Dt: 03.12.2024 Rs.3,440/-

\*\*\*\*\*

Sl. No.	Description	Rate (Rs.)	No. of Stations/ Stacks	Amount (Rs.)
1.	<b>SAMPLING CHARGES:</b>			
	Ambient Air Quality monitoring PM <sub>10</sub>	3500	6	21,000
	Source Emission Monitoring (PM, SO <sub>2</sub> , NO <sub>x</sub> etc.,)	0	0	0
	Ambient Air Quality monitoring PM <sub>2.5</sub>	3500	2	7,000
2.	<b>ANALYTICAL CHARGES:</b>			
	Ambient Air Samples PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> (each Rs.1450/-)	3690	6	22,140
	Ambient Air Samples PM <sub>2.5</sub>	1900	2	3,800
3.	<b>AMBIENT NOISE MONITORING CHARGES:</b>			
	For first 5 stations	1400	5	7,000
	For each additional station	3500	1	3,500
<b>Transportation Charges</b>				<b>1500</b>
<b>Total</b>				<b>65,940</b>
Vide O/o. DEE/CHN Our CR.No.266 & 413 dated :02.07.2024 & 03.12.2024				<b>65,940</b>
<b>Balance</b>				<b>Nil</b>

*20/03/25*  
 Deputy Chief Scientific Officer  
 District Environmental Laboratory  
 Tamil Nadu Pollution Control Board  
 Manali



## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: October 2024**

**Prepared By**



### **NITYA LABORATORIES**

**Address:** Plot No.118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabgarh,  
Faridabad, Delhi NCR, India

**Tel.:** +91-129-2241021

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

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

**Website:** www.nityalab.com

### 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 12<sup>th</sup> 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 2024 is presented in this report.

**2.0 Scope and Methodology:**

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

**2.1 Ambient Air Quality**

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



### AMBIENT AIR QUALITY MONITORING:

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

**Table: Detail of Ambient Air Quality Monitoring Locations**

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

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i, e, at 8 Locations. A Total of 72 Samples each of  $PM_{10}$  &  $PM_{2.5}$ , Samples of  $SO_2$ ,  $NO_2$ , Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.



## Test Reports of Ambient Air Quality Monitoring

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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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: 06/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040110	19.20	42.90	12.60	18.40	ND
2	07/10/2024	202410070110	16.50	46.40	11.80	20.50	ND
3	10/10/2024	202410100110	14.60	45.40	10.50	21.60	ND
4	14/10/2024	202410140110	16.90	47.10	13.30	18.20	ND
5	17/10/2024	202410170110	17.50	43.60	14.50	23.40	ND
6	21/10/2024	202410210110	18.30	47.10	10.90	24.40	ND
7	25/10/2024	202410250110	14.40	48.40	11.10	21.20	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:

NAAQM: National Ambient Air Quality Standards, Schedule-VII [Rule 3 (2B)] [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)

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#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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www.nityalab.com

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

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040110	ND
2	07/10/2024	202410070110	ND
3	10/10/2024	202410100110	ND
4	14/10/2024	202410140110	ND
5	17/10/2024	202410170110	ND
6	21/10/2024	202410210110	ND
7	25/10/2024	202410250110	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)

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### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

Test Report Date: 08/10/2024

### 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				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040111	17.20	28.50	11.50	20.50	ND
2	07/10/2024	202410070111	18.60	30.40	12.60	18.40	ND
3	10/10/2024	202410100111	21.20	32.60	13.40	17.20	ND
4	14/10/2024	202410140111	20.90	33.90	11.80	19.30	ND
5	17/10/2024	202410170111	17.20	34.10	14.40	20.10	ND
6	21/10/2024	202410210111	18.50	38.10	13.10	18.90	ND
7	25/10/2024	202410250111	19.40	30.30	12.80	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, Schedule-VII, [Rule 3 (38)] [Part-II-sec-35] 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 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 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, +91-9873832093.

### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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www.nityalab.com

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

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040111	ND
2	07/10/2024	202410070111	ND
3	10/10/2024	202410100111	ND
4	14/10/2024	202410140111	ND
5	17/10/2024	202410170111	ND
6	21/10/2024	202410210111	ND
7	25/10/2024	202410250111	ND
Test Method			PID Based Methane Analyser

### Remark:

NAQS- National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (3B)), (Part-4-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)

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

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

Test Report Date: 08/10/2024

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#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040112	24.20	42.20	14.40	19.50	ND
2	07/10/2024	202410070112	27.60	40.10	16.60	21.60	ND
3	10/10/2024	202410100112	24.30	39.30	17.10	22.20	ND
4	14/10/2024	202410140112	25.60	42.40	15.90	19.40	ND
5	17/10/2024	202410170112	24.10	43.50	13.10	17.60	ND
6	21/10/2024	202410210112	28.20	45.90	16.40	20.50	ND
7	25/10/2024	202410250112	22.80	46.60	17.20	21.70	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:

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

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

Test Report Date: 08/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040112	ND
2	07/10/2024	202410070112	ND
3	10/10/2024	202410100112	ND
4	14/10/2024	202410140112	ND
5	17/10/2024	202410170112	ND
6	21/10/2024	202410210112	ND
7	25/10/2024	202410250112	ND
Test Method			PID Based Methane Analyser

#### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### 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				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/10/2024	202410040113	22.20	44.50	16.60	19.90	ND
2	07/10/2024	202410070113	23.60	47.60	17.20	21.50	ND
3	10/10/2024	202410100113	20.10	46.60	13.40	19.60	ND
4	14/10/2024	202410140113	22.50	48.60	15.10	19.20	ND
5	17/10/2024	202410170113	23.60	49.50	16.60	20.30	ND
6	21/10/2024	202410210113	20.80	43.80	17.30	21.60	ND
7	25/10/2024	202410250113	23.40	46.90	15.40	20.10	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 II-sec-3(i)] 16.11.2009. ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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

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

Test Report Date: 08/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040113	ND
2	07/10/2024	202410070113	ND
3	10/10/2024	202410100113	ND
4	14/10/2024	202410140113	ND
5	17/10/2024	202410170113	ND
6	21/10/2024	202410210113	ND
7	25/10/2024	202410250113	ND
Test Method			PID Based Methane Analyser

#### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/10/2024	202410040114	18.60	29.60	12.60	17.50	ND
2	07/10/2024	202410070114	19.50	30.40	13.40	18.60	ND
3	10/10/2024	202410100114	23.50	31.60	14.40	19.40	ND
4	14/10/2024	202410140114	23.40	33.10	12.60	20.60	ND
5	17/10/2024	202410170114	21.60	29.40	13.90	18.50	ND
6	21/10/2024	202410210114	22.90	30.60	12.10	19.30	ND
7	25/10/2024	202410250114	24.40	33.60	11.80	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:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040114	ND
2	07/10/2024	202410070114	ND
3	10/10/2024	202410100114	ND
4	14/10/2024	202410140114	ND
5	17/10/2024	202410170114	ND
6	21/10/2024	202410210114	ND
7	25/10/2024	202410250114	ND
Test Method			PID Based Methane Analyser

### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/10/2024	202410040115	16.80	27.40	10.50	16.80	ND
2	07/10/2024	202410070115	17.50	27.30	11.90	16.10	ND
3	10/10/2024	202410100115	20.60	28.60	12.40	18.40	ND
4	14/10/2024	202410140115	21.10	29.40	10.60	19.30	ND
5	17/10/2024	202410170115	19.30	27.60	11.80	16.60	ND
6	21/10/2024	202410210115	20.40	27.20	10.60	16.90	ND
7	25/10/2024	202410250115	21.30	30.10	10.10	18.30	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:

NAAQMS: 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



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

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

Test Report Date: 08/10/2024

13

#### 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	04/10/2024	202410040115	ND
2	07/10/2024	202410070115	ND
3	10/10/2024	202410100115	ND
4	14/10/2024	202410140115	ND
5	17/10/2024	202410170115	ND
6	21/10/2024	202410210115	ND
7	25/10/2024	202410250115	ND
Test Method			PID Based Methane Analyser

#### Remark:

NAAQSS: 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



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

Test Report Date: 08/10/2024

14

#### Sample Particulars

Nature of the Sample

Purpose of Monitoring

Sampling Location

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

- 1. Ambient Air Quality Monitoring
- 2. To Check the Pollution Load
- 3. Car Parking
- 4. IS 5182 (Part 14)
- 5. Mr. Shridhar
- 6. 24 Hrs.

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/10/2024	202410040116	23.10	32.50	14.60	20.60	ND
2	07/10/2024	202410070116	22.50	31.70	18.10	21.40	ND
3	10/10/2024	202410100116	24.60	34.60	18.60	22.60	ND
4	14/10/2024	202410140116	20.60	30.50	17.20	21.80	ND
5	17/10/2024	202410170116	22.40	32.80	16.60	20.60	ND
6	21/10/2024	202410210116	21.80	31.90	19.30	23.60	ND
7	25/10/2024	202410250116	19.70	29.30	17.20	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:

NAAQS: 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.

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

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040116	ND
2	07/10/2024	202410070116	ND
3	10/10/2024	202410100116	ND
4	14/10/2024	202410140116	ND
5	17/10/2024	202410170116	ND
6	21/10/2024	202410210116	ND
7	25/10/2024	202410250116	ND
Test Method			PID Based Methane Analyser

### Remark:

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

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

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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

16

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report 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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040117	20.60	38.60	18.20	22.60	ND
2	07/10/2024	202410070117	19.30	32.70	21.30	23.70	ND
3	10/10/2024	202410100117	22.50	31.50	19.30	22.10	ND
4	14/10/2024	202410140117	24.60	35.60	16.80	24.60	ND
5	17/10/2024	202410170117	21.70	34.80	15.60	23.70	ND
6	21/10/2024	202410210117	20.60	37.30	17.30	21.80	ND
7	25/10/2024	202410250117	22.70	39.10	18.40	22.20	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.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit; the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### Sample Particulars

Nature of the Sample

Ambient Air Quality Monitoring

Purpose of Monitoring

To Check the Pollution Load

Sampling Location

Fire Station

Method of Sampling

IS 5182 (Part 14)

Monitoring Conducted By

Mr. Shridhar

Sampling Duration (Hrs.)

24 Hrs

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040117	ND
2	07/10/2024	202410070117	ND
3	10/10/2024	202410100117	ND
4	14/10/2024	202410140117	ND
5	17/10/2024	202410170117	ND
6	21/10/2024	202410210117	ND
7	25/10/2024	202410250117	ND
Test Method			PID Based Methane Analyser

### Remark:

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



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## Test Reports of Wastewater (STP)



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(RAVINDER MITTAL)

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

Test Report No.: 202410230110  
Test Report Date: 01/11/2024

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 26/10/2024  
Test Started On : 26/10/2024  
Test Completed On : 31/10/2024  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 23/10/2024  
Monitoring Conducted By : Mr. Shridhar  
Sample Description : W-1: STP O/L of Admin Building  
W-2: STP O/L of Car Parking

### Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	7.52	7.38	5.5 to 9.0	IS 3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	38	44	50	IS 3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	80	70	150	IS 3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	16	14	30	IS 3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	253	754	<1000	IS:1622

(AUTHORISED SIGNATORY)  
(RHYTHM BASSON\*)

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## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: November 2024**

**Prepared By**



### **NITYA LABORATORIES**

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**Introduction**

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> 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 November 2024 is presented in this report.

**2.0 Scope and Methodology:**

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

**2.1 Ambient Air Quality**

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.

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### AMBIENT AIR QUALITY MONITORING:

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

**Table: Detail of Ambient Air Quality Monitoring Locations**

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

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i. e., at 8 Locations. A Total of 72 Samples each of  $PM_{10}$  &  $PM_{2.5}$ . Samples of  $SO_2$ ,  $NO_2$ , Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.



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## Test Reports of Ambient Air Quality Monitoring

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

Test Report Date: 07/12/2024

### 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 $\text{SO}_2$ ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as $\text{NO}_2$ ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as $\text{CO}$ ) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000068F	23.50	54.60	17.40	22.60	ND
2	04/11/2024	TC148142400000085F	27.35	56.40	15.60	23.10	ND
3	07/11/2024	TC148142400000141F	22.64	52.30	15.50	26.40	ND
4	11/11/2024	TC148142400000222F	22.50	56.70	17.50	22.60	ND
5	25/11/2024	TC148142400000447F	23.50	52.50	18.60	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)

#### Remark:

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



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

**Test Report Date:** 07/12/2024

**Sample Particulars**

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

**Analysis Report**

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010110	ND
2	04/11/2024	202411040110	ND
3	07/11/2024	202411070110	ND
4	11/11/2024	202411110110	ND
5	25/11/2024	202411250110	ND
<b>Test Method</b>			<b>PID Based Methane Analyser</b>

**Remark:**

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

  
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(RAVINDER M. TAL)

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Vallur Post, Chennai, India

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000089F	21.36	31.60	12.30	27.30	ND
2	04/11/2024	TC148142400000086F	22.50	32.70	14.50	20.30	ND
3	07/11/2024	TC148142400000142F	25.60	35.50	15.60	21.20	ND
4	11/11/2024	TC148142400000223F	24.90	36.79	14.80	14.60	ND
5	25/11/2024	TC148142400000448F	22.40	38.50	16.50	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)

### Remarks:

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



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

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010111	ND
2	04/11/2024	202411040111	ND
3	07/11/2024	202411070111	ND
4	11/11/2024	202411110111	ND
5	25/11/2024	202411250111	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, [Part 3 (3B)], [Part II-sec. 35] 16.11.2006, MO-Hd Directed.  
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 MITAL)

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

Test Report Date: 07/12/2024

### Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**  
Purpose of Monitoring : **To Check the Pollution Load**  
Sampling Location : **Admin Building**  
Method of Sampling : **IS 5182 (Part 14)**  
Monitoring Conducted By : **Mr. Shrdhar**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000070F	27.50	45.50	14.70	22.60	ND
2	04/11/2024	TC148142400000087F	30.90	43.30	16.40	24.50	ND
3	07/11/2024	TC148142400000143F	27.60	42.40	12.50	23.60	ND
4	11/11/2024	TC148142400000224F	29.80	49.10	16.30	22.50	ND
5	25/11/2024	TC148142400000449F	29.20	46.60	17.40	19.80	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

#### Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VI, [Rule 3 (35), Part II Sec. 3(2) 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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(RAVINDER MITTAL)

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

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010112	ND
2	04/11/2024	202411040112	ND
3	07/11/2024	202411070112	ND
4	11/11/2024	202411110112	ND
5	25/11/2024	202411250112	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 Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000071F	23.50	46.30	14.40	21.40	ND
2	04/11/2024	TC148142400000088F	26.30	50.60	16.30	22.60	ND
3	07/11/2024	TC148142400000144F	23.40	48.90	15.40	20.20	ND
4	11/11/2024	TC148142400000226F	23.10	51.60	17.60	19.60	ND
5	25/11/2024	TC148142400000450F	24.20	52.80	18.40	22.10	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)) 16.11.2009, ND=Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010113	ND
2	04/11/2024	202411040113	ND
3	07/11/2024	202411110113	ND
4	11/11/2024	202411250113	ND
5	25/11/2024	202406240113	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, (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 Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000072F	29.20	32.40	22.40	27.20	ND
2	04/11/2024	TC148142400000086F	33.20	33.80	19.40	22.20	ND
3	07/11/2024	TC148142400000145F	26.60	33.50	22.30	23.60	ND
4	11/11/2024	TC148142400000226F	23.60	38.90	20.20	21.60	ND
5	25/11/2024	TC148142400000451F	26.60	41.60	24.40	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-VI, [Rule 3 (3B), [Part-II-sec-3(i)] 15.11.2009. ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

**Test Report Date:** 07/12/2024

**Sample Particulars**

**Nature of the Sample** : Ambient Air Quality Monitoring  
**Purpose of Monitoring** : To Check the Pollution Load  
**Sampling Location** : Finger Jetty  
**Method of Sampling** : IS 5162 (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	01/11/2024	202411010114	ND
2	04/11/2024	202411040114	ND
3	07/11/2024	202411070114	ND
4	11/11/2024	202411110114	ND
5	25/11/2024	202411250114	ND
<b>Test Method</b>			<b>PID Based Methane Analyser</b>

**Remark:**

NAAQS: National Ambient Air Quality Standards: Schedule-VI, (Phase 3 (2018)) (Part II 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 Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000073F	23.40	33.50	16.20	21.30	ND
2	04/11/2024	TC148142400000090F	24.20	27.30	17.40	22.40	ND
3	07/11/2024	TC148142400000146F	27.80	29.40	18.10	23.40	ND
4	11/11/2024	TC148142400000227F	27.20	25.40	16.30	26.40	ND
5	25/11/2024	TC148142400000452F	26.30	27.20	17.30	21.50	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-I-sec-3(B)] 16.11.2009, ND-Not Detected.  
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010115	ND
2	04/11/2024	202411040115	ND
3	07/11/2024	202411070115	ND
4	11/11/2024	202411110115	ND
5	25/11/2024	202411250115	ND
Test Method			PID Based Methane Analyser

### Remark:

NAQS- National Ambient Air Quality Standards; Schedule-VI [Rule 3 (2B)] [Part-3 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)

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Vallur Post, Chennai, India

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000074F	27.40	32.50	17.30	22.50	ND
2	04/11/2024	TC148142400000091F	25.20	32.70	20.40	23.40	ND
3	07/11/2024	TC148142400000147F	28.50	33.10	21.20	25.20	ND
4	11/11/2024	TC148142400000226F	23.30	32.50	19.50	23.30	ND
5	25/11/2024	TC148142400000453F	26.20	31.40	18.30	21.40	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 (3B)], [Part II-sec-30] 15.11.2009, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



TC-14814



(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

**Test Report Date:** 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010116	ND
2	04/11/2024	202411040116	ND
3	07/11/2024	202411070116	ND
4	11/11/2024	202411110116	ND
5	25/11/2024	202411250116	ND
<b>Test Method</b>			<b>PID Based Methane Analyser</b>

### Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Part-3 (B)) (Part-5 sec-3(i)) 16.11.2009, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC14814240000075F	24.40	42.50	22.10	23.40	ND
2	04/11/2024	TC14814240000092F	23.20	37.20	21.20	30.70	ND
3	07/11/2024	TC148142400000148F	26.40	34.30	23.40	28.50	ND
4	11/11/2024	TC148142400000226F	29.60	40.60	20.70	31.30	ND
5	25/11/2024	TC148142400000454F	25.10	41.60	19.40	27.30	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-VI, [Rule 3 (38)], [Part-II-sec-30(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010117	ND
2	04/11/2024	202411040117	ND
3	07/11/2024	202411070117	ND
4	11/11/2024	202411110117	ND
5	25/11/2024	202411250117	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQS National Ambient Air Quality Standards, Schedule-VII, (Rule 3-360) (Part II-sec-50) 16.11.2009, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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## Test Reports of Wastewater (STP)

  
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(RAVINDER MITTAL)

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

ULR No.: TC14814240000076F-077F  
Test Report Date: 12/11/2024

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 06/11/2024  
Test Started On : 06/11/2024  
Test Completed On : 11/11/2024  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 01/11/2024  
Monitoring Conducted By : Mr. Shridhar  
Sample Description : W-1: STP O/L of Admin Building  
W-2: STP O/L of Car Parking

### Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	7.53	7.33	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	58	84	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	80	70	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	16	14	30	IS:3025 (P-44)



TC-14814

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

Test Report No.: 202411010110  
Test Report Date: 12/11/2024

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 06/11/2024  
Test Started On : 06/11/2024  
Test Completed On : 11/11/2024  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 01/11/2024  
Monitoring Conducted By : Mr. Shridhar  
Sample Description : W-1: STP O/L of Admin Building  
W-2: STP O/L of Car Parking

### Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	Faecal Coliform*	MPN/100 ml	542	500	<1000	IS:1622

(AUTHORISED SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

**Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: December 2024**

**Prepared By**



**NITYA LABORATORIES**

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

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#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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## Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> 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 December 2024 is presented in this report.

## 2.0 Scope and Methodology:

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

### 2.1 Ambient Air Quality

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



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**AMBIENT AIR QUALITY MONITORING:**

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

**Table: Detail of Ambient Air Quality Monitoring Locations**

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

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



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## Test Reports of Ambient Air Quality Monitoring

  
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(RAVINDER MITTAL)

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

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000656F	24.60	58.60	15.40	25.80	ND
2	07/12/2024	TC148142400000755F	27.20	55.40	14.20	24.20	ND
3	10/12/2024	TC148142400000812F	19.40	54.20	15.60	30.20	ND
4	16/12/2024	TC148142400000922F	21.50	59.20	13.20	22.50	ND
5	23/12/2024	TC148142400001118F	29.20	53.20	16.20	31.40	ND
6	26/12/2024	TC148142400001198F	20.40	58.10	14.70	32.50	ND
7	30/12/2024	TC148142400001255F	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)) (16.11.2005, 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-14814



(RAVINDER MITTAL)

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

Test Report Date: 06/01/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030110	ND
2	07/12/2024	202412070110	ND
3	10/12/2024	202412100110	ND
4	16/12/2024	202412160110	ND
5	23/12/2024	202412230110	ND
6	26/12/2024	202412260110	ND
7	30/12/2024	202412300110	ND
Test Method			PID Based Methane Analyser

**Remark:**

NAQS- National Ambient Air Quality Standards, Schedule-III, [Rule 3 (38)], [Part-II-sec.-2(i)] 16.11.2009, ND-Not Detected,  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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

Test Report Date: 06/01/2025

### 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. Surya

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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000657F	25.70	30.20	14.50	19.20	ND
2	07/12/2024	TC148142400000756F	23.60	35.20	15.80	27.20	ND
3	10/12/2024	TC148142400000813F	26.40	46.20	16.60	30.50	ND
4	16/12/2024	TC148142400000923F	26.90	39.20	13.60	25.40	ND
5	23/12/2024	TC148142400001119F	20.50	41.20	15.20	29.60	ND
6	26/12/2024	TC148142400001199F	19.20	48.30	16.20	26.20	ND
7	30/12/2024	TC148142400001256F	22.50	26.80	14.50	29.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

### Remark:

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



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### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030111	ND
2	07/12/2024	202412070111	ND
3	10/12/2024	202412100111	ND
4	16/12/2024	202412160111	ND
5	23/12/2024	202412230111	ND
6	26/12/2024	202412260111	ND
7	30/12/2024	202412300111	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQs: National Ambient Air Quality Standards: Schedule-VII, (Rule 3 (3B)), (Part-II-sec-3(i)) 10.11.2008, ND-Not Detected.  
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Issued To **Mix Kamarajar Port Trust**  
Vallur Post, Chennai, India

Test Report Date: 08/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	03/12/2024	TC148142400000658F	32.40	51.20	16.20	26.50	ND
2	07/12/2024	TC148142400000757F	33.60	56.40	17.40	30.40	ND
3	10/12/2024	TC148142400000814F	26.40	44.60	13.20	29.50	ND
4	16/12/2024	TC148142400000924F	32.00	48.30	18.40	21.50	ND
5	23/12/2024	TC148142400001120F	31.80	52.50	15.20	19.60	ND
6	26/12/2024	TC148142400001200F	30.40	55.10	16.20	31.40	ND
7	30/12/2024	TC148142400001257F	25.20	59.20	14.50	32.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guideline	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



TC-14814



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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030112	ND
2	07/12/2024	202412070112	ND
3	10/12/2024	202412100112	ND
4	16/12/2024	202412160112	ND
5	23/12/2024	202412230112	ND
6	26/12/2024	202412260112	ND
7	30/12/2024	202412300112	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQSS: National Ambient Air Quality Standards, Schedule-MI, [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)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

#### 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. Surya  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000659F	28.40	47.50	15.40	25.40	ND
2	07/12/2024	TC148142400000758F	25.90	54.20	14.50	20.60	ND
3	10/12/2024	TC148142400000815F	24.70	52.40	16.20	24.50	ND
4	16/12/2024	TC148142400000925F	24.50	50.20	15.40	20.40	ND
5	23/12/2024	TC148142400001121F	20.30	56.20	18.20	19.20	ND
6	26/12/2024	TC148142400001201F	16.50	58.20	14.80	28.40	ND
7	30/12/2024	TC148142400001258F	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-8)	IS:5182 (P-10)

#### Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (38)], [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



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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030113	ND
2	07/12/2024	202412070113	ND
3	10/12/2024	202412100113	ND
4	16/12/2024	202412160113	ND
5	23/12/2024	202412230113	ND
6	26/12/2024	202412260113	ND
7	30/12/2024	202412300113	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)

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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000660F	29.40	28.60	22.40	28.60	ND
2	07/12/2024	TC148142400000759F	32.50	38.10	24.40	18.20	ND
3	10/12/2024	TC148142400000816F	19.60	36.10	28.20	21.50	ND
4	16/12/2024	TC148142400000928F	18.40	47.10	21.20	18.40	ND
5	23/12/2024	TC148142400001122F	23.20	46.20	31.90	28.40	ND
6	26/12/2024	TC148142400001202F	32.50	49.10	26.20	26.70	ND
7	30/12/2024	TC148142400001259F	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-VII, [Rule 3 (38)], [Part-II-sec-3(i)] 15.11.2006, 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



TC-14814



(RAVINDER MITTAL)

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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030114	ND
2	07/12/2024	202412070114	ND
3	10/12/2024	202412100114	ND
4	16/12/2024	202412160114	ND
5	23/12/2024	202412230114	ND
6	26/12/2024	202412260114	ND
7	30/12/2024	202412300114	ND
Test Method			PID Base / Methane Analyser

### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000661F	22.50	38.10	19.50	21.40	ND
2	07/12/2024	TC148142400000760F	24.40	30.40	17.20	20.90	ND
3	10/12/2024	TC148142400000817F	31.20	31.50	16.90	24.60	ND
4	16/12/2024	TC148142400000927F	25.40	24.40	17.90	32.20	ND
5	23/12/2024	TC148142400001123F	26.60	32.50	16.30	28.60	ND
6	26/12/2024	TC148142400001203F	28.80	28.40	15.90	27.30	ND
7	30/12/2024	TC148142400001260F	26.20	25.00	15.60	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-VII, [Rule 3(38)], [Part-II sec-3(i)] 16.11.2009 : 'N' Not Detected.  
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specific experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030115	ND
2	07/12/2024	202412070115	ND
3	10/12/2024	202412100115	ND
4	16/12/2024	202412160115	ND
5	23/12/2024	202412230115	ND
6	26/12/2024	202412260115	ND
7	30/12/2024	202412300115	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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000662F	29.60	31.20	19.20	25.60	ND
2	07/12/2024	TC148142400000751F	28.40	20.40	20.60	22.20	ND
3	10/12/2024	TC148142400000818F	26.20	29.40	22.50	27.50	ND
4	16/12/2024	TC148142400000928F	23.40	28.50	18.90	31.40	ND
5	23/12/2024	TC148142400001124F	22.40	34.00	18.40	19.20	ND
6	26/12/2024	TC148142400001204F	25.10	29.80	24.20	20.10	ND
7	30/12/2024	TC148142400001261F	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 (38)], [Part-I-sec-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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

Test Report Date: 06/01/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030116	ND
2	07/12/2024	202412070116	ND
3	10/12/2024	202412100116	ND
4	16/12/2024	202412160116	ND
5	23/12/2024	202412230116	ND
6	26/12/2024	202412260116	ND
7	30/12/2024	202412300116	ND
Test Method			PID Based Methane Analyser

**Remark:**

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000663F	26.80	28.90	22.40	26.80	ND
2	07/12/2024	TC148142400000762F	25.40	32.40	21.50	33.60	ND
3	10/12/2024	TC148142400000819F	28.80	34.20	22.60	35.40	ND
4	16/12/2024	TC148142400000929F	31.40	48.20	23.90	31.30	ND
5	23/12/2024	TC148142400001125F	24.20	43.20	18.90	25.80	ND
6	26/12/2024	TC148142400001205F	23.20	38.20	16.80	23.40	ND
7	30/12/2024	TC148142400001262F	26.80	46.20	17.50	24.30	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-VI, [Rule 3 (38)], [Part-4-sec.-2(i)] 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



TC-14814



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

Test Report Date: 06/01/2025

### 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. Surya

24 Hrs.

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030117	ND
2	07/12/2024	202412070117	ND
3	10/12/2024	202412100117	ND
4	16/12/2024	202412160117	ND
5	23/12/2024	202412230117	ND
6	26/12/2024	202412260117	ND
7	30/12/2024	202412300117	ND
Test Method			PID Based Methane Analyser

### Remark:

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



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## Test Reports of Wastewater (STP)

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

ULR No.: TC148142400000763F-764F  
Test Report Date: 18/12/2024

### Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

**Wastewater (STP)**

1.0 Liter, Pet Bottle (Each)

12/12/2024

12/12/2024

17/12/2024

SOP/B/D-3

07/12/2024

Mr. Surya

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	116	286	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)



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

**Test Report No.:** 202412070130-131  
**Test Report Date:** 18/12/2024

### Sample Particulars

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

**Wastewater (STP)**  
1.0 Liter, Pet Bottle (Each)  
12/12/2024  
12/12/2024  
17/12/2024  
SOP/B/D-3  
07/12/2024  
Mr. Surya  
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	Faecal Coliform*	MPN/100 ml	486	669	<1000	IS:1622

(AUTHORISED SIGNATORY)  
(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: January 2025**

**Prepared By**



### **NITYA LABORATORIES**

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### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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### Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> Major Port. It Works on the model of 'Landlord' concept. KPL's policy is to manage the port in a proactive 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 must 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 January 2025 is presented in this report.

### 2.0 Scope and Methodology:

The scope of work 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 PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



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### AMBIENT AIR QUALITY MONITORING:

Ambient air quality was monitored at different locations inside the port. The study area covers the periphery of Port and different parts of the port. A Total of 8 Ambient Air Quality Monitoring Stations covering both upwind and downwind were monitored during January 2025.

**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<sub>10</sub> & PM<sub>2.5</sub>, Samples of SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.



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## Test Reports of Ambient Air Quality Monitoring

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(SANDEEP SAINI)



(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

ULR No.: TC146142500000055F.383F.439F.488F  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) ug/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/01/2025	23.5	57.6	14.3	24.5	ND
2	06/01/2025	27.0	54.3	13.8	23.6	ND
3	09/01/2025	18.8	53.2	14.5	30.7	ND
4	18/01/2025	19.2	58.4	13.9	21.5	ND
5	20/01/2025	28.2	52.2	16.1	31.2	ND
6	23/01/2025	19.6	56.6	14.15	31.3	ND
7	27/01/2025	18.4	57.2	15.9	23.2	ND
8	30/01/2025	20.5	52.5	16.5	25.6	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)

Presented by the

NAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)] Part-II-sec-3(i)(ii) 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.



(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
IRAVINDER MITTAL

[illegible]

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

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

Test Report No.: 202501040110-117  
Test Report Date: 10/02/2025

#### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	18/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

#### Remarks:

NAAQSE: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (GB)], [Part-II sec-301] 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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

(CHECKED BY)  
(SANDEEP SAINI)

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(RAVINDER MITTAL)

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

ULR No: TC148142500000056F.384F.440F.489F  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	24.0	29.5	13.2	18.5	ND
2	06/01/2025	22.6	34.4	14.6	26.5	ND
3	09/01/2025	25.6	45.2	15.4	29.2	ND
4	15/01/2025	25.9	38.2	12.6	24.5	ND
5	20/01/2025	19.7	40.4	13.4	28.9	ND
6	23/01/2025	19.2	46.2	15.9	25.3	ND
7	27/01/2025	21.9	25.9	13.7	28.2	ND
8	30/01/2025	22.2	31.8	15.2	23.9	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)

1998, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

MAAQ25: National Ambient Air Quality Standards, Schedule VI, [Rule 3 (25), Part II-sec-3(4)] 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



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Issued To: **M/s Kamarajar Port Trust**  
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Test Report No.: 202501040118-125  
Test Report Date: 10/02/2025

#### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	05/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

#### Remark:

RAAQ: National Ambient Air Quality Standards, Schedule VII (Part 3 (B)) (Part II sec-38) 19.11.2008, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

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ULIR No.: TC148142500000057F,385F, 441F, 490F  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	04/01/2025	30.3	50.2	15.2	25.2	ND
2	05/01/2025	32.4	54.4	16.5	29.2	ND
3	09/01/2025	26.1	43.2	13.1	28.5	ND
4	18/01/2025	31.2	47.2	17.5	20.2	ND
5	20/01/2025	29.5	51.4	14.3	18.4	ND
6	23/01/2025	28.6	53.9	15.9	30.1	ND
7	27/01/2025	25.2	56.2	13.8	31.4	ND
8	30/01/2025	29.05	55.2	16.1	28.7	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

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



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Test Report No.: 202601040126-133  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	05/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

NAQS: 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

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ULR No.:  
Test Report Da

TC14814250000058F,386F, 442F, 491F  
10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	27.0	46.2	15.8	25.6	ND
2	06/01/2025	23.5	53.5	14.3	21.8	ND
3	09/01/2025	23.1	50.0	16.1	24.3	ND
4	16/01/2025	21.7	49.2	15.9	21.2	ND
5	20/01/2025	20.9	54.2	18.5	22.4	ND
6	23/01/2025	21.4	56.2	14.8	28.0	ND
7	27/01/2025	24.3	46.4	16.0	27.8	ND
8	30/01/2025	25.6	46.7	16.6	23.4	ND
<b>NAAQM Standards</b>		<b>60</b>	<b>100</b>	<b>80</b>	<b>80</b>	<b>2</b>
<b>Test Method</b>		<b>40CFR Appendix L Part 53 CPCB Guidelines</b>	<b>IS:5182 (P-23)</b>	<b>IS:5182 (P-2)</b>	<b>IS:5182 (P-6)</b>	<b>IS:5182 (P-10)</b>

#### Remarks:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)(i) Part-II sec.-3(i)] 15-11-2009. ND-Not Detected.  
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.  
Sample Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



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Test Report No.: 202501040134-141  
Test Report Date: 10/02/2025

### 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. Surya

24 Hrs.

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (B)], [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 Analysis within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

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ULR No.: TC148142500000059F, 387F, 443F, 492F  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	29.05	32.2	21.3	28.8	ND
2	05/01/2025	32.10	38.4	23.4	25.3	ND
3	09/01/2025	19.2	36.3	27.6	28.2	ND
4	16/01/2025	18.4	44.5	20.2	23.4	ND
5	20/01/2025	23.5	48.4	30.4	32.10	ND
6	23/01/2025	31.2	47.2	25.5	27.9	ND
7	27/01/2025	28.2	43.3	22.9	29.2	ND
8	30/01/2025	29.9	37.2	24.2	28.4	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)

## REFERENCES

MASSQS: National Ambient Air Quality Standards; Schedule VII, [Rule 3 (35), Part I-sec. 34(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 Analyzed within Seven days from the date of sampling. CMCS-Central Pollution Control Board



TC-14814

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(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202501040142-149  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

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

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ULR No.: TC148142500000060F.388F, 444F, 493F  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	23.1	37.2	16.2	21.4	ND
2	06/01/2025	23.5	30.4	17.4	20.7	ND
3	09/01/2025	30.3	31.5	16.5	24.8	ND
4	16/01/2025	24.7	23.5	17.6	32.6	ND
5	20/01/2025	25.2	32.2	16.2	28.5	ND
6	23/01/2025	27.4	28.8	15.6	27.3	ND
7	27/01/2025	25.6	25.9	15.2	30.2	ND
8	30/01/2025	28.1	32.9	19.3	22.5	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 (Phase 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.



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Test Report No.: 202501040150-157  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

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

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ULR No.: TC148142500000061F.389F.445F.494F  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	28.2	30.9	18.1	24.5	ND
2	06/01/2025	27.3	29.4	19.4	21.8	ND
3	08/01/2025	26.0	28.2	21.2	26.1	ND
4	16/01/2025	22.2	27.8	17.8	29.7	ND
5	20/01/2025	21.8	33.2	17.2	19.6	ND
6	23/01/2025	24.8	30.2	23.1	20.8	ND
7	27/01/2025	23.0	32.8	22.3	21.7	ND
8	30/01/2025	24.7	30.4	19.3	22.4	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 2 (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



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Issued To: M/s Kamarajar Port Trust  
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Test Report No.: 202501040158-165  
Test Report Date: 10/02/2025

### 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. Surya

Sampling Duration (Hrs.) :

24 Hrs.

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remarks:

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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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ULR No.: TC148142500300062F.390F, 446F, 495F  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1.	04/01/2025	26.4	29.4	22.3	25.6	ND
2.	08/01/2025	26	32.6	21.5	32.4	ND
3.	09/01/2025	28.6	34.5	22.8	33.2	ND
4.	16/01/2025	31.5	44.5	23.4	30.4	ND
5.	20/01/2025	24.7	42.6	19.7	24.3	ND
6.	23/01/2025	23.9	38.5	17.9	22.7	ND
7.	27/01/2025	26.5	45.2	18.2	23.8	ND
8.	30/01/2025	29.4	42.3	20.4	27.4	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-II sec-3(i) 16-11-2009, ND-Not Detected,  
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions  
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report No.: 202501040166-173  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

## Remarks

NAACS: National Ambient Air Quality Standards, Schedule-VII, [Part-3 (B)], [Part-4 (a) - (c)] 18.11.2009, ND-Not Detected  
 DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
 Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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## Test Reports of Wastewater (STP)

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

ULR No.:

TC148142500000342F-343F

Test Report Date:

31/01/2025

### Sample Particulars

Nature of the Sample	Wastewater (STP)
Sample Quantity & Packaging	1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	24/01/2025
Test Started On	24/01/2025
Test Completed On	30/01/2025
Method of Sampling	SOP/B/D-3
Date of Sampling	21/01/2025
Monitoring Conducted By	Mr. Surya
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	---	7.56	7.24	5.5 to 9.0	IS-3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	104	220	50	IS-3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	50	40	150	IS-3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	10	8	30	IS-3025 (P-44)



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

Test Report No.: 202501210110-111  
Test Report Date: 31/01/2025

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 24/01/2025  
Test Started On : 24/01/2025  
Test Completed On : 30/01/2025  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 21/01/2025  
Monitoring Conducted By : Mr. Surya  
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	Faecal Coliform*	MPN/100 ml	426	788	<1000	IS:1622

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RHYTHM BASSON\*)

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(RAVINDER MITTAL)

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## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: March 2025**

**Prepared By**



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### Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> Major Port. It Works on the model of 'Landlord' concept. KPL's policy is to manage the port in a proactive 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 must 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 January 2025 is presented in this report.

### 2.0 Scope and Methodology:

The scope of work 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 day's date of PM<sub>10</sub>.

PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



### AMBIENT AIR QUALITY MONITORING:

Ambient air quality was monitored at different locations inside the port. The study area covers the periphery of Port and different parts of the port. A Total of 8 Ambient Air Quality Monitoring Stations covering both upwind and downwind were monitored during March 2025.

**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<sub>10</sub> & PM<sub>2.5</sub>, Samples of SO<sub>2</sub>, NO<sub>2</sub> Methane and CO each were monitored by using Respirable dust sampler. Fine Particulate Sampler, Methane & CO Analyzer.



## Test Reports of Ambient Air Quality Monitoring

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(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

Issued To: **M/s Kamarajar Port Trust**

Vallur Post, Chennai, India

ULR No.: TC148142500001300F, 1335F, 1414F, 1492F, 1543F,  
1596F, 1767F, 1862F, 1992F

Test Report Date: 07/04/2025

#### 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. Surya**  
Sampling Duration (Hrs.): **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	21.40	54.60	12.30	21.50	ND
2	06/03/2025	25.20	51.30	11.80	20.60	ND
3	10/03/2025	16.60	50.30	12.50	27.70	ND
4	13/03/2025	17.10	55.40	11.90	18.50	ND
5	17/03/2025	26.10	49.20	14.10	28.20	ND
6	20/03/2025	17.50	53.60	12.20	20.20	ND
7	24/03/2025	16.20	54.20	13.90	22.60	ND
8	27/03/2025	18.40	49.20	14.50	19.60	ND
9	31/03/2025	19.20	50.60	13.20	23.60	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.-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

(CHECKED BY)  
(SANDEEP SAINI)



TC-14814

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

Test Report No.: 202503030110-118  
Test Report Date: 07/04/2025

#### 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. Surya**  
Sampling Duration (Hrs.): **24 Hrs**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
Test Method		PID Based Methane Analyser

#### Remark:

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

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Valur Post, Chennai, India

ULR No.: TC148142500001301F, 1336F, 1415F, 1493F, 1544F,  
1597F, 1768F, 1863F, 1993F

Test Report Date: 07/04/2025

#### 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. Surya

24 Hrs.

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	21.80	26.50	11.20	15.50	ND
2	06/03/2025	20.50	31.40	12.60	23.50	ND
3	10/03/2025	23.50	42.20	13.40	26.20	ND
4	13/03/2025	23.90	35.20	10.60	21.50	ND
5	17/03/2025	17.50	37.40	11.40	25.90	ND
6	20/03/2025	17.10	43.20	13.90	22.30	ND
7	24/03/2025	20.10	22.90	11.70	26.50	ND
8	27/03/2025	19.70	28.80	13.20	20.90	ND
9	31/03/2025	18.80	29.40	12.90	21.80	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

#### Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)], [Part-4-sec-50] 16.11.2009. ND-Not Detected.  
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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(SANDEEP SAINI)



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Vallur Post, Chennai, India

Test Report No.: 202503030119-127  
Test Report Date: 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	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 Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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(SANDEEP SAINI)

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(RAVINDER MITTAL)

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ULR No.:

TC148142500001302F, 1337F, 1416F, 1494F, 1545F,  
1598F, 1789F, 1864F, 1994F

Test Report Date:

07/04/2025

#### 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. Surya

24 Hrs

#### Analysis Report

Sr. No.	Date of Sampling	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) $\text{mg}/\text{m}^3$
1	03/03/2025	28.20	47.20	13.20	22.20	ND
2	06/03/2025	30.30	51.40	14.50	26.20	ND
3	10/03/2025	34.30	40.20	11.20	25.50	ND
4	13/03/2025	29.10	44.20	15.50	17.20	ND
5	17/03/2025	27.40	49.20	12.30	15.40	ND
6	20/03/2025	26.50	50.90	13.90	27.10	ND
7	24/03/2025	23.10	53.20	11.80	28.40	ND
8	27/03/2025	27.80	52.20	14.10	25.70	ND
9	31/03/2025	28.60	45.80	12.80	23.80	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 (26)], [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. CFCB-Central Pollution Control Board

(CHECKED BY)

(SANDEEP SAINI)



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(RAVINDER MITTAL)

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Test Report No.: 202503030128-136  
Test Report Date: 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	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

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(SANDEEP SAINI)

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TC148142500001303F, 1338F, 1417F, 1495F, 1546F,  
1599F, 1770F, 1865F, 1995F

Test Report Da

07/04/2025

#### 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. Surya

24 Hrs

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	25.20	43.20	13.80	22.60	ND
2	06/03/2025	21.40	50.50	12.30	18.80	ND
3	10/03/2025	22.20	47.20	14.20	21.30	ND
4	13/03/2025	19.70	46.20	13.20	18.20	ND
5	17/03/2025	18.80	51.20	16.50	19.40	ND
6	20/03/2025	19.20	53.40	12.80	25.20	ND
7	24/03/2025	22.30	43.20	14.00	24.80	ND
8	27/03/2025	23.50	43.90	14.60	20.40	ND
9	31/03/2025	24.30	48.50	15.40	23.40	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (38)], [Part-4-sec-3(i)] 16.11.2006. ND-Not Detected.  
DL-Detection Limit, 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.

(CHECKED BY)  
(SANDEEP SAINI)



TC-14814

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202503030137-145  
Test Report Date: 07/04/2025

### 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. Surya

Sampling Duration (Hrs.)

24 Hrs

## Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
Test Method		PID Based Methane Analyser

Remarks

NAQS: National Ambient Air Quality Standards, Schedule-VI, [Rule 3 (III) (Part-I-sec-3)] 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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL

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Vallur Post, Chennai, India

ULR No.: TC148142500001304F, 1339F, 1418F, 1496F, 1547F, 1600F  
1771F, 1866F, 1996F

Test Report Date: 07/04/2025

#### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	27.40	29.20	19.30	25.80	ND
2	06/03/2025	30.30	35.40	21.40	22.30	ND
3	10/03/2025	17.10	33.30	25.60	25.20	ND
4	13/03/2025	16.20	41.50	18.20	20.40	ND
5	17/03/2025	21.40	43.40	28.40	29.20	ND
6	20/03/2025	29.10	44.20	23.50	24.90	ND
7	24/03/2025	26.00	40.30	20.90	26.20	ND
8	27/03/2025	27.80	34.20	22.30	26.40	ND
9	31/03/2025	22.20	32.60	20.20	23.60	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-VI, (Rule 3 (3B)), (Part-II-sec-3(i)) 15.11.2008, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

(CHECKED BY)  
(SANDEEP SAINI)



(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

**Test Report No.:** 202503030146-154  
**Test Report Date:** 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	05/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

**Remark:**

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

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(SANDEEP SAINI)

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ULR No.: TC148142500001305F,1340F, 1419F, 1497F, 1548F, 1601F  
1772F, 1867F, 1997F

Test Report Date: 07/04/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	21.10	34.20	16.20	18.40	ND
2	06/03/2025	21.40	27.40	15.40	17.70	ND
3	10/03/2025	28.20	28.50	14.50	21.80	ND
4	13/03/2025	22.60	20.50	15.80	29.60	ND
5	17/03/2025	23.10	29.20	14.20	25.50	ND
6	20/03/2025	25.20	25.80	13.60	24.30	ND
7	24/03/2025	23.50	22.90	13.20	27.20	ND
8	27/03/2025	23.90	29.90	17.30	19.50	ND
9	31/03/2025	24.40	28.80	16.60	20.60	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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

(CHECKED BY)  
(SANDEEP SAINI)



TC-14814

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202503030155-163  
Test Report Date: 07/04/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
Test Method		PID Based Methane Analyser

### Example 1

NAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B), Part II-sec-3(i)] 1E-11, 2006; 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

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL

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ULR No.: TC148142500001306F, 1341F, 1420F, 1498F, 1549F, 1602F  
1773F, 1868F, 1998F  
Test Report Date: 07/04/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	26.10	27.90	15.10	21.50	ND
2	06/03/2025	25.30	26.40	17.40	18.80	ND
3	10/03/2025	24.20	25.20	19.20	23.20	ND
4	13/03/2025	20.20	24.80	16.80	20.70	ND
5	17/03/2025	19.70	30.20	15.20	16.60	ND
6	20/03/2025	22.80	27.20	20.10	17.80	ND
7	24/03/2025	21.60	29.80	19.30	18.70	ND
8	27/03/2025	22.70	27.40	16.30	19.40	ND
9	31/03/2025	23.50	28.80	18.50	20.80	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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

(CHECKED BY)  
(SANDEEP SAINI)



TC-14814

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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**Test Report No.:** 202503030164-172  
**Test Report Date:** 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	05/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

**Remark:**

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

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ULR No.:

TC148142500001307F, 1342F, 1421F, 1499F, 1550F, 1603F,  
1774F, 1869F, 1999F

Test Report Date:

07/04/2025

**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. Surya**

Sampling Duration (Hrs.)

: **24 Hrs.**

**Analysis Report**

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1.	03/03/2025	24.40	26.40	20.20	22.60	ND
2.	06/03/2025	24.10	29.60	19.50	29.40	ND
3.	10/03/2025	26.60	31.50	20.80	30.20	ND
4.	13/03/2025	29.50	41.50	21.40	27.40	ND
5.	17/03/2025	22.70	39.60	17.70	21.30	ND
6.	20/03/2025	21.90	35.60	15.90	19.30	ND
7.	24/03/2025	24.50	42.20	16.20	20.80	ND
8.	27/03/2025	27.40	39.30	16.40	24.70	ND
9.	31/03/2025	25.20	32.60	20.60	23.80	ND
<b>NAAQM Standards</b>		<b>60</b>	<b>100</b>	<b>80</b>	<b>80</b>	<b>2</b>
<b>Test Method</b>		<b>40CFR Appendix L Part 53 CPCB Guidelines</b>	<b>IS:5182 (P-23)</b>	<b>IS:5182 (P-2)</b>	<b>IS:5182 (P-6)</b>	<b>IS:5182 (P-10)</b>

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Table 3 (2008), (Part-I) sec.-(3)(i) 15.11.2008. ND-Not Detected.  
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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(SANDEEP SAINI)



TC-14814

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(RAVINDER MITTAL)

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**Test Report No.:** 202503030173-181  
**Test Report Date:** 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

**Remark:**

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

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## Test Reports of Wastewater (STP)

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(RAVINDER MITTAL)

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ULR No.: TC148142500001508F-1509F  
Test Report Date: 27/03/2025

### Sample Particulars

Nature of the Sample	: <b>Wastewater (STP)</b>
Sample Quantity & Packaging	: 1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	: 20/03/2025
Test Started On	: 20/03/2025
Test Completed On	: 26/03/2025
Method of Sampling	: SOP/B/D-3
Date of Sampling	: 17/03/2025
Monitoring Conducted By	: Mr. Surya
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	7.35	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	82	180	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	60	50	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	12	9	30	IS:3025 (P-44)

.....End of Report.....



TC-14814

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

Test Report No.: 202503170110-111  
Test Report Date: 27/03/2025

### Sample Particulars

Nature of the Sample	Wastewater (STP)
Sample Quantity & Packaging	1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	20/03/2025
Test Started On	20/03/2025
Test Completed On	26/03/2025
Method of Sampling	SOP/B/D-3
Date of Sampling	17/03/2025
Monitoring Conducted By	Mr. Surya
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	Faecal Coliform*	MPN/100 ml	542	754	<1000	IS:1622

.....End of Report.....

(CHECKED BY)  
(SANDEEP SAINI)

(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 samples tested. Test results shall not be disseminated except in full without written approval of the laboratory. This report is intended only for information and not for legal purpose or for advertisement. This report shall not be reproduced 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 should be made within 15 days of the date of issue of test certificate. Nitya Laboratories is limited liability company only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email to info@nityalab.com

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# **KAMARAJAR PORT LIMITED**



## **Compliance Report**

**On**

**Ministry's guidelines for**

**“EXPANSION PROPOSALS - DEVELOPMENT OF TERMINALS  
FOR MARINE LIQUIDS, COAL, IRON AND CONTAINERS IN  
SECOND PHASE AND ASSOCIATED DREDGING AT ENNORE  
PORT”**

**Point wise compliance report on Ministry's guidelines for the Ennore Port Expansion Proposals-Development of Terminals for marine liquids, coal, iron and containers in Second phase and associated dredging at Ennore Port Environmental clearance**

**Ref: MoEF Letter No. 10-28/2005-IA-III dated 10<sup>th</sup> September 2007.**

**Back ground information**

MoEF had accorded environmental clearance vide letter No. 10-28/2005-IA-III dated 19th May 2006 for the following projects:-

1. Marine Liquid Terminal to handle 3 MTPA.
2. Coal Terminal other than TNEB Users to handle 8 MTPA.
3. Iron Ore Terminal to handle 12 MTPA.
4. Container Terminal for a quay length of 700m to handle 12 MTPA.
5. Associated Capital Dredging of 15.50 million cubic meters.

Kamarajar Port Limited requested for modification of the above environmental clearance **with respect to the Container Terminal**, for the following reasons:

**Reason for Modification of Environmental Clearance**

- i. The draft policy for maritime sector (Ports, merchant Shipping and IWT) suggested that Port Planning for the Development of Container Terminal should have a quay length of 1000m and capacity of 1.50 million TEUs.
- ii. In accordance the NMDP prepared by Dept. of Shipping included the Development of Container Terminal at Ennore Port with 1000 meters.
- iii. Department of Shipping has formulated an Action Plan for development of 18 Berths in various major Ports, which includes the Container Terminal of 1000 m quay length at Ennore Port during the financial year, 2007-08.
- iv. Accordingly, it was proposed to reconfigure the container Terminal from 700 m to 1000m.
- v. Reconfiguration of the quay length of the proposed container Terminal from 700 m to 1000 m would require an associated capital dredging of additional 4 million cu.m
- vi. Reconfiguration would revise the capacity of the Container Terminal from 1.0 million TEUs to 1.50 million TEUs.

MoEF had accorded environmental clearance vide letter No. 10-28/2005-IA-III dated 10<sup>th</sup> September 2007

**Status of the project:**

Further KPL modified the above Environment Clearance for the development of Container Terminal and Multi Cargo Terminal.

**Modified Environmental clearance from MoEF&CC**

MoEF&CC has accorded environmental clearance for the development of container terminal in the 730m quay length and multi cargo berth in the 230m quay length vide its communication No. 10-28/2005-IA.III dated 24.12.2014.

**Compliance report on MoEF Letter No. 10-28/2005-IA-III dated 10<sup>th</sup> September 2007:**

<b>S. No</b>	<b>(A) Specific Conditions</b>	<b>Compliance Status</b>
(i)	It should be ensured that no mangroves are destroyed during reclamation.	<b>Complied with.</b>  No mangroves are present at container project site inside the port.
(ii)	The proposed extension to the project should not cause any shoreline change abutting Ennore Port.	<b>Complied with.</b>  The proposed extension of the project was addition of 300m to the quay length of 700m. (The container terminal will be developed to handle 11.68 MTPA in the 730m quay length and multi cargo berth of 2.0 MTPA in the 230m quay length). The alignment of the berth is in the N-S direction abutting the land side which is within the existing break-waters; hence, no shoreline changes are caused.
(iii)	Adequate provision for beach nourishment and sand by pass should be provided.	<b>Complied with.</b>  The dredged material was used as beach nourishment in the north of north break water and filling up of back up area.
(iv)	The dredged material obtained should be utilized for filling up of	<b>Complied with.</b>  About 2.0 million cubic meter of dredged

	backup area.	material was used as filling up of back up area.
(v)	All conditions stipulated in the environmental clearance letter of even number dated 19.5.2006 should be strictly complied with.	<b>Complied with.</b>  All stipulated conditions applicable in the environmental clearance letters are being complied with and the compliance reports are submitted to Regional Office of MoEF & CC, Chennai.
(vi)	The additional dredged material of 4 million cubic meters obtained from the project should not be disposed of into the sea.	<b>Complied with.</b>  The dredged material was used as beach nourishment and filling up of back up area.
(vii)	The reclaimed area should be used as container stackyards only.	<b>Complied with.</b>  Reclaimed area was used as container stack yard.
(viii)	Adequate drainage facilities should be provided in the reclaimed area along with collection and treatment system for treating the run-off from the container stackyard.	<b>Complied with.</b>  Drainage facilities are provided.
(ix)	Necessary approvals/clearances should be obtained from the Tamil Nadu Coastal Zone Management Authority and Tamil Nadu Pollution Control Board before implementing the project.	<b>Complied with.</b>  Tamil Nadu Coastal Zone Management Authority has recommended the project vide letter No. 17250/EC-3/2009-1 dated 26.10.2009.  TNPCCB has accorded the renewal of Consent To Operate (CTO) for the facility vide orders nos. 2108136876855 & 2108236876855 dated 24.08.2021 under Water and Air Acts., valid till 31.03.2026.
<b>B. General Conditions</b>		<b>Compliance report</b>
(i)	Construction of the proposed structures should be undertaken meticulously conforming to the	<b>Noted and complied with.</b>

	existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments/Agencies.	
(ii)	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation, etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.	<p><b>Complied with.</b></p> <p>Construction of the Terminals was completed and the projects are under operation.</p>
(iii)	The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.	<p><b>Complied with.</b></p> <p>M/s. AECTPL has installed and operating 25 KLD sewage treatment plant to collect and treat the sewage generated from the terminal. The entire treated water is being used for horticulture purpose.</p> <p>M/s AECTPL has implemented integrated waste management system-waste segregation yard.</p> <p>All the solid waste generated is being handled in line to Solid Waste Management Rules' 2016 as amended. M/s AECTPL vision is based on adoption of 5R principle of Solid Waste Management i.e reduce, Reuse, Reprocess, Recycle &amp; recover. All waste is being handled inline to 5R principle.</p>
(iv)	The proponent shall obtain the requisite consents for discharge of	<b>Complied with.</b>

	<p>effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Tamil Nadu Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.</p>	<p>The quay length 1000m was bifurcated into 730m quay length to handle containers of 11.68 MTPA and in the remaining 270m to develop Multi Cargo terminal to handle 2.0 MTPA of cargo. Environmental clearance for the above was obtained from MoEF&amp;CC vide letter dated 10-28/2005-IA.III dated 24.12.2014.</p> <p>TNPCB has accorded the renewal of Consent To Operate (CTO) for the facility, vide their orders nos. 2108136876855 &amp; 2108236876855 dated 24.08.2021 under Water and Air Acts., valid till 31.03.2026.</p>
(v)	<p>The proponents shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The records of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.</p>	<p><b>Complied with.</b></p> <p>The terminal operator M/s AECTPL has awarded Environmental monitoring services to a NABL accredited laboratory. Monitoring of Ambient Air Quality, Noise, Stack, STP, Drinking water, Marine Surface Water, Sea Sediment is carried out on regular basis. The reports are being submitted to Tamilnadu Pollution Control Board on monthly basis and also as part of six monthly compliance report. Environment Monitoring report for the compliance period is enclosed herewith.</p> <p>Reports are made available for the inspection to the concerned State/central officials during their visits.</p>
(vi)	<p>In order to carry out the environmental monitoring during the operational phase of the projects, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities</p>	<p><b>Complied with.</b></p> <p>Environmental Monitoring is being carried out through NABL accredited laboratory. Monitoring of Ambient Air Quality, Noise, Stack and STP is carried out on regular basis.</p>

	and qualified manpower to carry out the testing of various environmental parameters.	The reports are being submitted to Tamilnadu Pollution Control Board on monthly basis and also as part of six monthly compliance reports. Environment Monitoring report for the period compliance period is enclosed herewith.																		
(vii)	The sand dunes and mangroves, if any, on the site should not be disturbed in any way.	<b>Complied with.</b>  No sand dunes or mangroves are present inside the port of this project site.																		
(viii)	A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	<b>Complied with.</b>  No suggestion or representation was received from Panchayat/local NGO while processing the proposal.																		
(ix)	The Tamil Nadu Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries centre and Collectors Office/Thasildhar office for 30 days.	<b>Complied with.</b>  No action needed as far as KPL is concerned.																		
(x)	The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bangalore and the State Pollution Control Board.	<p>The environmental expenditure carried out by the container terminal operator M/s AECTPL during the compliance period is Rs. 14.10 Lakhs.</p> <p>The breakup details are as follows.</p> <table border="1"> <thead> <tr> <th>S. No</th><th>Description</th><th>Amount Rs. in Lakhs</th></tr> </thead> <tbody> <tr> <td>1</td><td>Environmental Monitoring</td><td>4.26</td></tr> <tr> <td>2</td><td>Greenbelt</td><td>3.77</td></tr> <tr> <td>3</td><td>STP-O&amp;M</td><td>4.25</td></tr> <tr> <td>4</td><td>IWMS</td><td>1.82</td></tr> <tr> <td colspan="2"><b>Total</b></td><td><b>14.10</b></td></tr> </tbody> </table>	S. No	Description	Amount Rs. in Lakhs	1	Environmental Monitoring	4.26	2	Greenbelt	3.77	3	STP-O&M	4.25	4	IWMS	1.82	<b>Total</b>		<b>14.10</b>
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<b>Total</b>		<b>14.10</b>																		

(xi)	Full support should be extended to the officers of this Ministry's Regional Office at Bangalore and the officers of the Central and State Pollution Control Boards by the Project proponent during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<p><b>Being complied with.</b></p> <p>TNPCB officials are visiting the terminal on monthly basis. There was no visit from RO-MoEF &amp; CC during the compliance period.</p> <p>All the necessary support is being provided during the site visit.</p>
(xii)	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	<p><b>Complied with.</b></p> <p>The quay length of the container terminal of 1000m length was bifurcated into 730m quay length to handle containers of 11.68 MTPA and in the remaining 230m to develop Multi Cargo terminal to handle 2.0 MTPA of cargo. Environmental clearance for the above was obtained from MoEF&amp;CC vide letter dated 10-28/2005-IA.III dated 24.12.2014.</p>
(xiii)	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	<b>Noted.</b>
(xiv)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary for environmental protection, which shall be complied with.	<b>Noted.</b>

(xv)	<p>The Project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and the copies of clearance letters are available with the state pollution Control Board and may also be seen at web site of the Ministry of Environment &amp; Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangalore.</p>	<p><b>Complied with.</b></p> <p>It was advertised in the vernacular Tamil and English newspapers on 17/9/2008.</p>
(xvi)	<p>The project proponents should inform the Regional Office at Bangalore as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.</p>	<p><b>Complied with.</b></p>

**Point wise compliance report on the conditions issued by Tamil Nadu State Coastal Zone Management vide Letter No. 17250/EC-3/2009-1 dated 26.10.2009**

1.	The composition of the dredged materials should be duly analyzed and examined to find out the availability of any toxic contents.	<ul style="list-style-type: none"> <li>• Port had carried out a study through Institute of Ocean Management, Anna University, Chennai entitled “Assessment of Water, Sediment &amp; Biota in Ennore Port” during January 2009.</li> <li>• The study revealed that the toxic heavy metals are found to be well within the safety limits and as such do not pose any problem to the marine environment.</li> <li>• Sediment quality is also monitored during dredging operations.</li> <li>• Port is also monitoring monthly marine water quality for various physio-chemical parameters including heavy metals.</li> </ul>
2.	Based on the analysis, a suitable methodology for the disposal of dredging material has to be evolved out.	<p>National Institute of Ocean Technology (NIOT), Chennai had carried out EIA and Risk assessment for the second phase expansion proposals, which is inclusive of Modeling studies and identified a marine disposal area (5 km x 5 km area) for disposal of dredged material.</p> <p>The study has identified a location for the safe disposal of dredged material with a holding capacity of 18.0 million cubic meters.</p>
3.	A permanent air quality monitoring station should be established to check and maintain the air quality within the permissible level.	<p>Port has engaged M/s. Nitya Laboratory, a MoEF an NABL accredited laboratory, for sampling and testing of various environmental parameters inside the port premises. Port is monitoring ambient air quality (PM10 &amp; PM2.5). All the monitored parameters are well within the standard limits.</p> <p>The analysis reports are regularly submitted to TNPCB &amp; Regional Office of MoEF&amp;CC.</p>

		<p>District Environmental Laboratory, Tamil Pollution Control Board also monitors annually, the air quality at different locations inside the port.</p> <p>The results of analysis reveal that ambient air quality and noise levels inside the port are well within standards during the survey carried out.</p>
4.	<p>A study should be carried out to ascertain the occurrence of coastal erosion/coastal accretion due to the dredging/dumping of dredged materials in the low lying coastal areas and if so, its extent of implication and the steps required to prevent erosion, mitigate the adverse impacts, etc.</p>	<ul style="list-style-type: none"> <li>• Desk studies for shoreline management for the proposed phase –II development at Ennore Port” CWPRS, (September 2009; Technical Report- 4658).</li> <li>• The study recommended creation of sand trap at the entrance</li> <li>• Regular dredging of the sand trap and dredging the sand accumulated at the mouth of the Ennore creek would be required to keep the inlet open.</li> <li>• This would enable minimizing further accretion / stabilization of land already formed on the south of the south breakwater. Regular dredging of sand accumulated at the creek mouth is being carried out by TNEB.</li> </ul>

**REPORT ON  
COMPREHENSIVE ENVIRONMENTAL MONITORING  
FOR**

**ADANI ENNORE CONTAINER TERMINAL CONTAINER PRIVATE LIMITED  
(AECTPL)  
(WITHIN KAMARAJAR PORT LIMITED)  
VALLUR POST, PONNERI TALUK, CHENNAI - 600 056.**

**October 2024 - March 2025**



**PREPARED BY:**

**M/S. SV ENVIRO LABS & CONSULTANTS,  
(MoEF & CC Recognized, NABL & NABET Accredited,  
ISO 9001 & 45001 Certified Laboratory),  
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Visakhapatnam - 530012.**

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## 1.0 INTRODUCTION

M/s. Adani Ennore Container Terminal Pvt Ltd (AECTPL) located inside Kamarajar Port, Ennore is operating container berth and handling containerized Import/Export cargoes.

AECTPL have engaged M/s. SV ENVIRO LABS AND CONSULTANTS, an Accredited Consultant by NABL to carry out the Comprehensive Environmental monitoring studies in AECTPL continuously as per the Statuary Requirement. This report covers the monitored environmental data for the Period of Oct 2024 to March 2025.

## 1.1 LOCATION OF THE PROJECT

The Project site is located at Port area inside the Kamarajar Port Limited.

The location map is shown in Fig - 1

**Fig – 1 – Location Map**



## 2.0 SCOPE OF WORK

The scope of Comprehensive Environmental monitoring includes the following environmental components;

1. Meteorological data
2. Ambient Air Quality
3. Ambient Noise Level
4. Marine Sampling
5. Treated STP / ETP Water.
6. Potable water
7. DG Set Emission

The parameters covered under the scope for each of the above attributes are given below:

### SCOPE OF WORK

S.No	Attribute	Scope	Frequency
1.	Meteorological Data	Collection of micrometeorological data on hourly basis by installing an auto weather monitoring station at plant site covering the following parameters: <ul style="list-style-type: none"> <li>• Wind speed</li> <li>• Wind direction</li> <li>• Rainfall</li> <li>• Relative Humidity</li> <li>• Temperature</li> <li>• Barometric pressure</li> <li>• Solar Radiation</li> </ul>	Daily
2.	Ambient Air Quality	Sampling of ambient air at 03 stations for analysing the following parameters: <ul style="list-style-type: none"> <li>• PM10</li> <li>• PM2.5</li> <li>• SO<sub>2</sub></li> <li>• NO<sub>2</sub></li> <li>• CO</li> <li>• Lead</li> <li>• Ozone</li> <li>• Ammonia</li> <li>• Benzene</li> <li>• Benzo Pyrene</li> <li>• Arsenic</li> <li>• Nickel</li> </ul>	Weekly Twice
3.	Ambient Noise	Collection of Noise levels on hourly basis at 3 locations <ul style="list-style-type: none"> <li>• L<sub>eq</sub> – Day (Max and Min)</li> <li>• L<sub>eq</sub> – Night (Max and Min)</li> </ul>	Monthly Once

4.			
4a.	Surface and Bottom Water	<p>Collection of Surface and Bottom Water analysed for -1location</p> <ul style="list-style-type: none"> <li>• Temperature</li> <li>• pH @ 25°C</li> <li>• Total Suspended Solids</li> <li>• BOD at 27 °C for 3 days</li> <li>• Dissolved oxygen</li> <li>• Salinity at 25 °C</li> <li>• Oil &amp; Grease</li> <li>• Nitrate as No<sub>3</sub></li> <li>• Nitrite as No<sub>2</sub></li> <li>• Ammoniacal Nitrogen as N</li> <li>• Total phosphates as PO<sub>4</sub></li> <li>• Total Nitrogen,</li> <li>• COD</li> <li>• Turbidity</li> <li>• Total Iron as Fe</li> <li>• Colour</li> <li>• Odour</li> <li>• Mercury as Hg</li> <li>• Cadmium as Cd</li> <li>• Total Chromium as Cr</li> <li>• Copper as Cu</li> <li>• Lead as Pb</li> <li>• Nickel as Ni</li> <li>• Iron</li> <li>• Zinc</li> <li>• Particulate Organic Carbon</li> <li>• Petroleum Hydrocarbons</li> </ul>	Monthly Once
4b.	Marine Sediment	<p>Collection of Marine sediment analyzedfor-1 location</p> <ul style="list-style-type: none"> <li>• pH</li> <li>• Organic Matter</li> <li>• Moisture Content</li> <li>• Conductivity</li> <li>• Iron</li> <li>• Sodium</li> <li>• Copper</li> <li>• Nickel</li> <li>• Zinc</li> <li>• Manganese</li> <li>• Lead</li> <li>• Boron</li> <li>• Phosphate</li> <li>• Chloride</li> <li>• Sulphate</li> <li>• Sulphide</li> <li>• Pesticide</li> <li>• Potassium</li> <li>• Total Chromium</li> <li>• Petroleum Hydrocarbon</li> <li>• Aluminium</li> <li>• Total Nitrogen</li> <li>• Organic Nitrogen</li> <li>• Phosphorus</li> </ul>	Monthly Once

		<ul style="list-style-type: none"> <li>• Texture</li> </ul>	
4c.	Phytoplankton Monitoring	<ul style="list-style-type: none"> <li>• Total Count</li> <li>• No. of species</li> <li>• Major Species</li> </ul>	Monthly Once
4d.	Zooplankton Monitoring	<ul style="list-style-type: none"> <li>• Total Count</li> <li>• No. of species</li> <li>• Major</li> </ul>	Monthly Once
4e.	Microbiological Monitoring	<ul style="list-style-type: none"> <li>• Pseudomonas aeruginosa</li> <li>• Streptococcus Faecalis</li> <li>• Total Coliform</li> <li>• Faecal Coliform</li> <li>• E.Coli</li> <li>• Total viable count</li> <li>• Salmonella</li> <li>• Shigella</li> <li>• Vibrio Cholera</li> <li>• Vibrio Parahaemolyticus</li> </ul>	Monthly Once
4f.	Biological Monitoring	<ul style="list-style-type: none"> <li>• primary productivity</li> <li>• Chlorophyll-a</li> <li>• Phaeopigment</li> <li>• Total Biomass</li> </ul>	Monthly Once
4g.	Phytobenthos Monitoring data	<ul style="list-style-type: none"> <li>• Fungus</li> <li>• Total Count</li> <li>• No. of species</li> <li>• Diversity Index</li> <li>• Major species</li> </ul>	Monthly Once
4h.	Total Fauna Monitoring	<ul style="list-style-type: none"> <li>• Name of phylum</li> <li>• Class</li> <li>• Number of Individuals encountered</li> <li>• Total no. of species encountered</li> <li>• Total fauna</li> </ul>	Monthly Once
5.	STP Treated Water	Collection of STP Inlet and Treated water analysed for – 11 location <ul style="list-style-type: none"> <li>• pH</li> <li>• TSS</li> <li>• BOD</li> <li>• Faecal Coliforms</li> <li>• COD</li> <li>• TDS</li> <li>• Oil &amp; Grease</li> <li>• Cl</li> <li>• SO<sub>4</sub></li> </ul>	Monthly Once
6.	Potable Water analysis	Collection of Drinking water sample at 01 location. Analysing As per IS 10500: 2012 – 36 Parameters	Monthly Once
7.	DG Set Emissions	Sampling of Emission at 02 stations for analysing the following parameters: <ul style="list-style-type: none"> <li>• PM</li> <li>• Carbon Monoxide</li> <li>• NO<sub>x</sub> – NO<sub>2</sub></li> <li>• SO<sub>2</sub></li> </ul>	Monthly Once

### 3. METHODOLOGY

Methodologies adopted for sampling and analysis for each of the above parameters are detailed below

1	Meteorological parameters	
	Online Met station	
2	Ambient Air Quality	
	Parameters	Method
	Respirable Suspended Particulate Matter (PM10)	IS5182Part23:2006(Reaff.2017)
	Particulate Matter PM2.5	IS5182Part24:2019
	Sulphur dioxide as SO <sub>2</sub>	IS5182 Part02:2001(Reaff.2017)
	Oxides of Nitrogen as NO <sub>2</sub>	IS5182 Part06:2006(Reaff.2017)
	Lead as Pb	IS5182 Part22:2004(Reaff.2019)
	Arsenic as As	CPCB Guidelines
	Nickel as Ni	IS5182Part26:2020
	Carbon monoxide as CO	IS5182Part10:1999(Reaff.2019)
	Ozone as O <sub>3</sub>	IS5182Part09:1974(Reaff.2017)
	Ammonia as NH <sub>3</sub>	IS5182Part25:2018
	Benzene (α) pyrene	IS5182 Part12: 2004 (Reaff.2017)
	Benzene as C <sub>6</sub> H <sub>6</sub>	IS5182Part11:2006(Reaff.2019)
3	Ambient Noise Monitoring	
	L <sub>eq</sub> Day& Night	Instrument Manual, SV/LAB/SOP/Noise/001
4	Marine Sampling	
	Surface and Bottom Water	APHA Methods 24th Edition, 2023 Standard Methods for examination of Water and Wastewater and IS 3025 & USEPA Test Methods
	Sea Sediment	
	Phytoplankton Monitoring	
	Zooplankton Monitoring	
	Microbiological Monitoring	
	Primary Productivity Monitoring	
	Phytobenthos Monitoring data	
Total Fauna Monitoring		
5	STP Water Analysis	
	pH, TSS, BOD, Faecal Coliforms	APHA Methods 24th Edition, 2023 Standard Methods for examination of Water and Wastewater and IS 3025
6	Emission Monitoring	
	PM, Carbon Monoxide, NO <sub>x</sub> – NO <sub>2</sub> , SO <sub>2</sub>	IS 11255 Methods of measurement of emissions from Stationary source
7	New Water Analysis	
	As per IS 10500 : 2012–36 Parameters	APHA Methods 24th Edition, 2023 Standard Methods for examination of Water and Waste water and IS 3025

**4. ENVIRONMENTAL STUDIES – OCT 2024– MARCH 2024.**

<b>S.No</b>	<b>ATTRIBUTE</b>	<b>STUDIES CARRIED OUT</b>
1.	Meteorological parameters	Collection of micrometeorological data at project site on daily basis with hourly frequency
2.	Ambient Air Quality	Collection of ambient air at 4 locations.
3.	STP water	Collection of STP outlet water at two locations
4.	Ambient Noise	Collection of Ambient noise levels for day and night at 4 locations
5.	Drinking Water	Collection of Drinking water at Canteen Building
6.	Marine Water and Marine Sediments	Collection of Marine water and Marine Sediments at Three locations
7.	DG Set Emissions	Collection of DG Set Emissions.

## 1. METEOROLOGICAL DATA

Meteorological data was collected on hourly basis by installing an auto weather monitoring station at Plant site. The report depicted here under presents the data for Oct 2024 – March 2025.

The following parameters were recorded

- Wind speed
- Wind direction
- Temperature
- Pressure
- Relative humidity
- Rainfall

## ANNEXURE - 1 MICROMETEOROLOGY DATA

Oct 2024

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.10.2024 TO 31.10.2024							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>28.8</b>	<b>76.1</b>	<b>11.3</b>	<b>21.8</b>	<b>203.3</b>	<b>1008.6</b>	<b>216.9</b>
<b>Min</b>	<b>25.4</b>	<b>72.1</b>	<b>0</b>	<b>11.5</b>	<b>134.4</b>	<b>1007.1</b>	<b>15.8</b>
<b>Max</b>	<b>30</b>	<b>89.3</b>	<b>52.727</b>	<b>33.5</b>	<b>301.8</b>	<b>1010.1</b>	<b>290.6</b>
01-10-2024	29.5	73.2	10.90	22.3	159.6	1008.2	290.6
02-10-2024	29.7	74.7	5.50	31.7	194.7	1009.1	270.4
03-10-2024	29.6	74.5	0.00	31.3	204.9	1008.8	254.3
04-10-2024	30	74.2	1.20	33.5	203.6	1008.4	285.6
05-10-2024	28.6	76	52.73	30.6	212.4	1008.8	182.2
06-10-2024	28.1	78.6	51.85	21.6	170.7	1008.7	127.5
07-10-2024	28.9	75.9	0.00	18	173.5	1009.6	162.3
08-10-2024	28.7	76.2	0.00	16.6	192.5	1010.1	55.3
09-10-2024	29	75.7	0.00	24.1	187.3	1008.6	219.7
10-10-2024	29.4	74.1	6.80	18	226.4	1007.1	261.6
11-10-2024	28.8	74.6	13.03	20.2	202.6	1007.1	237.6
12-10-2024	28.7	75.5	0.00	24.1	217.8	1007.6	241
13-10-2024	28	78.1	44.35	19.4	247.4	1008.1	226.1
14-10-2024	25.4	89.3	37.33	16.2	301.8	1008.5	15.8
15-10-2024	27	81.4	7.75	11.5	250.4	1008.2	112.3
16-10-2024	28.2	77.2	21.41	19.1	200.6	1007.5	241.3
17-10-2024	29.1	72.1	0.00	23.8	215	1007.3	275.6
18-10-2024	29.3	72.4	0.00	25.6	208.3	1007.8	259.7
19-10-2024	28.7	76	6.40	25.9	209.7	1009.2	166.2
20-10-2024	29.2	75.1	3.20	16.2	168	1009.6	216.6
21-10-2024	29.2	76	4.80	16.2	179.9	1009.7	232
22-10-2024	29	76.2	28.01	16.6	134.4	1009.9	248.3
23-10-2024	29.2	76.5	3.50	18.4	182.4	1009.6	265.8
24-10-2024	28.2	79.3	8.34	25.2	213.4	1009.6	146.8
25-10-2024	28.2	78	6.06	25.6	220.6	1009.6	246.6
26-10-2024	28.3	76.3	0.00	19.1	204.7	1009.5	263.4
27-10-2024	29.1	73.8	0.00	22.3	211.8	1008.1	275.6
28-10-2024	29.3	73.6	0.00	21.2	201.8	1007.5	267.9
29-10-2024	29.5	72.7	0.00	18.7	199	1008.4	242.4
30-10-2024	29.7	72.8	3.90	18	159.7	1009	241.1
31-10-2024	29.2	75.2	6.46	16.2	167.3	1009.7	258

Nov 2024

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.11.2024 TO 30.11.2024							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>30.0</b>	<b>79.2</b>	<b>10.8</b>	<b>23.6</b>	<b>73.0</b>	<b>1009.6</b>	<b>177.0</b>
<b>Min</b>	<b>25.5</b>	<b>68.4</b>	<b>0</b>	<b>14.4</b>	<b>2</b>	<b>1006.6</b>	<b>10.5</b>
<b>Max</b>	<b>33</b>	<b>92.4</b>	<b>45.4</b>	<b>36.4</b>	<b>350.1</b>	<b>1011.2</b>	<b>275.1</b>
01-11-2024	32.0	75	8.44	14.8	133.1	1010.4	246.6
02-11-2024	30.8	76	19.60	19.4	76.6	1011.2	265.3
03-11-2024	30.4	78	19.79	20.5	63.3	1011	255
04-11-2024	31.1	75	13.92	23.8	55.1	1010.2	256.5
05-11-2024	32.5	72	0.00	20.9	51.6	1010.5	275.1
06-11-2024	32.5	71	0.00	17.6	31.9	1010.4	255
07-11-2024	31.0	76	0.00	24.1	2.0	1010.1	197.2
08-11-2024	28.4	85	21.26	18.4	14.8	1010.2	34.2
09-11-2024	31.3	77	1.10	26.6	23.5	1010.2	256.8
10-11-2024	31.8	70	0.00	28.8	19.7	1010.2	273.5
11-11-2024	32.2	72	0.00	25.2	25.3	1009.2	269
12-11-2024	33.0	72	0.00	14.4	8.9	1008.4	212.7
13-11-2024	31.1	79	2.30	21.6	18.9	1008	189.1
14-11-2024	31.7	80	4.51	19.8	27.2	1009.1	239.1
15-11-2024	30.1	87	26.28	24.8	14.6	1009.9	56
16-11-2024	31.3	82	1.62	23.0	36.2	1009.3	253.7
17-11-2024	30.7	80	22.17	27.4	28.7	1009.2	244.3
18-11-2024	29.9	80	7.10	29.9	30.6	1009.7	226.7
19-11-2024	27.5	88	27.10	29.5	17.5	1010.6	46
20-11-2024	25.7	92	45.40	24.1	12.6	1010.5	25.6
21-11-2024	28.8	84	11.00	27.4	19.3	1010.4	184.7
22-11-2024	30.0	78	20.86	25.9	19.9	1010.1	242.4
23-11-2024	29.6	80	0.00	27.0	16.4	1010.8	178
24-11-2024	29.4	80	0.00	26.3	13.9	1010.9	166.8
25-11-2024	27.2	83	0.00	24.8	10.8	1009.6	49.3
26-11-2024	26.3	89	39.52	25.6	350.1	1008.4	10.5
27-11-2024	25.5	89	22.34	36.4	348.9	1007.1	23
28-11-2024	28.2	80	0.00	18.7	339.3	1007	41.5
29-11-2024	30.0	68	0.00	17.6	306.9	1006.6	158.3
30-11-2024	31.0	74	0.00	21.2	235.3	1005.3	168.8

Dec 2024

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.12.2024 TO 31.12.2024							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>27.4</b>	<b>80.9</b>	<b>3.7</b>	<b>20.4</b>	<b>83.7</b>	<b>1010.1</b>	<b>186.1</b>
<b>Min</b>	<b>25.6</b>	<b>70.3</b>	<b>0</b>	<b>10.4</b>	<b>2.9</b>	<b>1004.6</b>	<b>52.1</b>
<b>Max</b>	<b>28.8</b>	<b>91.2</b>	<b>46.365</b>	<b>36.7</b>	<b>340.3</b>	<b>1013.7</b>	<b>252.5</b>
01-12-2024	27.8	81	0	26.3	231.6	1004.6	132.4
02-12-2024	28.8	81	0	23.4	216.6	1005.4	213.4
03-12-2024	28.6	81	2.5	19.4	193.5	1008.3	207.6
04-12-2024	28.1	79	2.384	14.8	90.7	1009.9	222.2
05-12-2024	27.5	83	12.676	14.4	53.7	1010.7	215.1
06-12-2024	27.8	84	0	19.1	34.9	1010.7	212.5
07-12-2024	27.8	83	0	16.2	33.3	1010.4	182.9
08-12-2024	27.8	81	0	18	38.2	1010.5	205.9
09-12-2024	27.7	82	0	15.8	28.5	1010.1	202.1
10-12-2024	28.0	78	0	20.5	20.6	1009.7	211.1
11-12-2024	26.8	81	1.735	31.7	2.9	1009.3	70.6
12-12-2024	25.6	91	46.365	36	5.1	1007.9	52.1
13-12-2024	26.7	89	7.868	36.7	86.3	1009	112.6
14-12-2024	25.6	90	27.068	24.5	17.6	1011.4	71.3
15-12-2024	26.6	76	0	29.2	16.2	1012.2	212.8
16-12-2024	26.0	78	1.8	26.3	7.9	1011.5	131.6
17-12-2024	26.6	73	0	21.2	7.7	1010.1	152.8
18-12-2024	27.6	77	0	12.2	340.3	1009.2	230.2
19-12-2024	27.9	84	0	11.9	155.3	1009	197.4
20-12-2024	28.5	84	0	14	200.1	1008.7	212.8
21-12-2024	28.3	85	0	10.4	57.9	1009.1	203.2
22-12-2024	27.8	82	3.576	15.8	36.4	1010.4	208.1
23-12-2024	27.3	80	0	10.8	23.5	1010.5	206.4
24-12-2024	27.3	79	0	12.2	187.8	1010.4	215.8
25-12-2024	27.6	80	0	11.2	133.3	1011.1	192.4
26-12-2024	27.5	81	1	13	97.2	1012.6	183.8
27-12-2024	27.5	79	0	31.7	46.7	1013.5	243
28-12-2024	26.9	73	0	28.1	36.5	1013.7	243.2
29-12-2024	27.1	70	0	28.1	26.5	1013	252.5
30-12-2024	27.1	75	1.9	33.1	30.2	1012.4	221.2
31-12-2024	26.3	77	2.3	36.4	27.8	1012.6	203.8

Jan - 2025

ADANI ENNORE CONTAINER TERMINAL PRIVATE LIMITED (AECTPL)							
AVERAGE REPORT							
FROM 01.01.2025 TO 31.01.2025							
<b>Avg</b>	<b>26.2</b>	<b>78.8</b>	<b>4.3</b>	<b>25.8</b>	<b>28.6</b>	<b>1011.7</b>	<b>179.7</b>
<b>Min</b>	<b>24.9</b>	<b>72.5</b>	<b>0</b>	<b>18.7</b>	<b>5.6</b>	<b>1010.4</b>	<b>86.5</b>
<b>Max</b>	<b>26.8</b>	<b>90.7</b>	<b>71.528</b>	<b>34.9</b>	<b>46.1</b>	<b>1013.3</b>	<b>243.6</b>
01-01-2025	26.8	77.0	7.15	34.9	23.4	1012.1	187.9
02-01-2025	26.7	74.4	0.00	27.0	29.1	1012.4	207.0
03-01-2025	26.4	74.8	0.00	32.4	23.8	1012.7	199.5
04-01-2025	26.2	72.8	0.00	24.5	23.5	1012.2	214.9
05-01-2025	26.3	72.5	0.00	22.0	35.0	1012.3	242.5
06-01-2025	26.1	72.5	0.00	20.9	25.1	1012.0	243.6
07-01-2025	26.3	82.2	0.00	22.7	31.2	1011.5	178.1
08-01-2025	26.1	80.9	1.91	24.8	37.2	1011.5	183.1
09-01-2025	26.2	75.3	0.00	23.4	30.1	1012.3	191.0
10-01-2025	26.6	78.0	0.00	27.7	23.6	1013.3	180.9
11-01-2025	26.5	80.6	0.00	28.4	26.8	1013.3	167.3
12-01-2025	26.2	77.6	6.56	24.5	15.9	1012.7	170.2
13-01-2025	26.7	83.2	0.00	24.5	31.7	1011.3	188.3
14-01-2025	26.3	83.6	14.03	25.2	31.5	1012.7	86.5
15-01-2025	26.2	84.7	5.10	30.6	27.4	1013.0	167.7
16-01-2025	26.7	78.2	0.00	29.2	30.0	1012.7	152.6
17-01-2025	26.2	78.0	0.00	29.9	30.4	1012.1	201.9
18-01-2025	24.9	82.0	7.56	27.0	5.6	1011.0	117.3
19-01-2025	25.0	90.7	71.53	22.7	14.6	1011.3	97.9
20-01-2025	26.2	83.2	0.00	24.1	23.4	1010.7	155.7
21-01-2025	26.2	77.4	0.00	22.7	27.3	1010.4	231.1
22-01-2025	25.9	83.1	10.33	20.9	23.7	1010.5	105.7
23-01-2025	26.5	83.5	1.70	27.0	45.7	1010.6	172.3
24-01-2025	26.3	77.3	0.00	23.0	34.1	1010.5	160.3
25-01-2025	26.5	78.6	0.00	23.8	30.5	1010.6	174.2
26-01-2025	26.1	76.7	0.00	27.4	33.0	1010.9	226.8
27-01-2025	25.8	76.8	0.00	25.9	25.2	1010.6	231.1
28-01-2025	26.1	75.4	0.00	18.7	46.1	1011.1	205.7
29-01-2025	26.2	72.9	0.00	31.0	43.4	1011.5	170.8
30-01-2025	26.4	76.4	0.00	28.4	28.8	1010.9	190.0
31-01-2025	27.2	81.0	0.00	28.4	45.6	1010.2	261.8

Feb - 2025

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.02.2025 TO 28.02.2025							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m²)
<b>Avg</b>	<b>31.6</b>	<b>76.0</b>	<b>1.2</b>	<b>23.0</b>	<b>51.8</b>	<b>1012.3</b>	<b>258.8</b>
<b>Min</b>	<b>29.9</b>	<b>71.8</b>	<b>0</b>	<b>16.6</b>	<b>34.1</b>	<b>1010.9</b>	<b>219.2</b>
<b>Max</b>	<b>33.4</b>	<b>83.9</b>	<b>16.314</b>	<b>37.8</b>	<b>67.7</b>	<b>1013.8</b>	<b>289.7</b>
01-02-2025	31.4	83.9	0.0	17.6	51.8	1011	228.4
02-02-2025	31.4	82.2	0.0	22.3	54.8	1011.1	227.1
03-02-2025	29.9	79.9	0.0	19.8	50.2	1011.9	247
04-02-2025	30.2	77.7	0.0	18.0	46.9	1012.2	255.5
05-02-2025	31.7	76.9	0.0	22.7	48.2	1011.3	249.1
06-02-2025	30.7	78.9	0.0	22.0	44.9	1010.9	224.1
07-02-2025	31.9	76.2	0.0	22.0	46.5	1012.3	260.6
08-02-2025	31.4	75.3	0.0	22.7	41.1	1012.3	241.6
09-02-2025	31.4	76.2	0.0	25.2	42.3	1011.6	259.8
10-02-2025	31.4	74.4	0.0	23.0	46.6	1012.6	219.2
11-02-2025	29.9	77.0	0.0	21.6	50.4	1013.1	255.2
12-02-2025	32.4	78.5	0.0	20.9	53.1	1012.7	222.9
13-02-2025	31.9	76.0	0.0	18.4	58.9	1012.6	269.5
14-02-2025	33.4	73.4	0.0	16.9	65.8	1012.3	284.1
15-02-2025	31.9	74.3	0.0	18.7	58.6	1011.2	289.7
16-02-2025	31.7	73.4	0.0	23.4	62.5	1011.5	281.2
17-02-2025	32.7	71.8	0.0	21.6	60.7	1013.2	278.6
18-02-2025	32.9	71.9	0.0	19.8	56.5	1013.3	273.4
19-02-2025	32.1	74.7	0.0	16.6	67.7	1011.5	278.6
20-02-2025	32.0	75.1	0.0	18.0	59.4	1011.9	263.9
21-02-2025	32.1	74.2	0.0	20.5	64.6	1013.1	267.5
22-02-2025	31.7	75.0	0.0	20.5	63.6	1013.6	255
23-02-2025	32.2	75.8	0.0	23.0	58.2	1013.6	276.3
24-02-2025	32.3	76.0	0.0	25.9	54.6	1013.4	281
25-02-2025	31.6	74.7	16.3	33.8	36.5	1013.8	260.3
26-02-2025	31.3	74.3	9.4	37.8	34.2	1013.2	279
27-02-2025	31.7	74.7	0.0	35.6	34.1	1012.1	266.8
28-02-2025	30.9	74.4	9.0	35.6	38.1	1011.1	250.8

## MARCH 2025

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.03.2025 TO 31.03.2025							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>28.7</b>	<b>79.0</b>	<b>3.9</b>	<b>18.5</b>	<b>88.6</b>	<b>1010.6</b>	<b>253.3</b>
<b>Min</b>	<b>26.6</b>	<b>71.0</b>	<b>0</b>	<b>12.6</b>	<b>39.9</b>	<b>1007.6</b>	<b>67.5</b>
<b>Max</b>	<b>30.1</b>	<b>89.7</b>	<b>36.649</b>	<b>34.6</b>	<b>171.1</b>	<b>1013.3</b>	<b>296.7</b>
01-03-2025	27.3	85.6	36.65	24.1	48.3	1010.9	184.5
02-03-2025	27.8	85.1	35.16	19.8	57.7	1010	232.5
03-03-2025	27.8	85.1	0.00	14.8	66.5	1010.4	220.6
04-03-2025	28.1	83.0	0.00	15.8	60.7	1010.3	259.6
05-03-2025	28.2	80.9	0.00	15.1	82.9	1010.5	295.9
06-03-2025	28.2	79.9	0.00	15.5	134.7	1011.1	296.7
07-03-2025	28.4	78.8	0.00	15.8	139.7	1010	270.7
08-03-2025	28.3	79.0	0.10	19.1	105.2	1009.1	276.2
09-03-2025	27.9	71.0	0.00	21.2	59.8	1009.6	285.5
10-03-2025	28.4	73.1	0.00	33.5	43.0	1010.9	266.7
11-03-2025	26.6	89.7	16.77	34.6	49.4	1010.9	67.5
12-03-2025	27.1	85.0	18.08	17.6	39.9	1010.7	188.1
13-03-2025	28.0	81.8	0.00	17.3	49.6	1010.3	252.7
14-03-2025	28.7	79.3	0.60	14.8	87.9	1010.4	261.5
15-03-2025	28.7	78.1	0.30	15.8	90.8	1010.9	256.5
16-03-2025	29.0	78.7	0.40	13.7	94.3	1011.2	234.4
17-03-2025	29.1	80.7	0.00	12.6	110.5	1010.8	263.4
18-03-2025	29.3	79.2	0.00	15.8	122.2	1010.7	275
19-03-2025	29.4	79.0	0.00	15.5	124.9	1012.3	251.1
20-03-2025	29.6	74.9	0.00	17.6	79.0	1013.3	295
21-03-2025	30.1	75.7	0.00	18.4	76.9	1013.3	274.3
22-03-2025	29.7	78.1	0.00	15.5	80.5	1012.6	228.8
23-03-2025	29.9	74.6	0.00	18.4	94.6	1012.3	285.5
24-03-2025	30.0	75.8	0.00	21.6	71.3	1011.5	271.1
25-03-2025	29.6	73.9	0.00	19.4	73.7	1009.4	282.2
26-03-2025	29.0	75.5	0.00	16.2	116.9	1008.6	277
27-03-2025	29.8	74.2	0.00	18.4	171.1	1008.1	253.8
28-03-2025	29.9	76.0	0.00	19.1	149.4	1007.6	286.7

### i. AMBIENT AIR QUALITY

Ambient air quality monitoring is required to determine the existing quality of air, evaluation of the effectiveness of control system and to identify areas in need of restoration and their prioritization. In order to generate background data, air quality monitoring is conducted to assess existing level of contamination and to assess possible effects of air contamination occurring in future.

#### Frequency of Monitoring

The frequency of monitoring that has been followed for sampling of ambient air quality is that one sample per weekly twice at three locations.

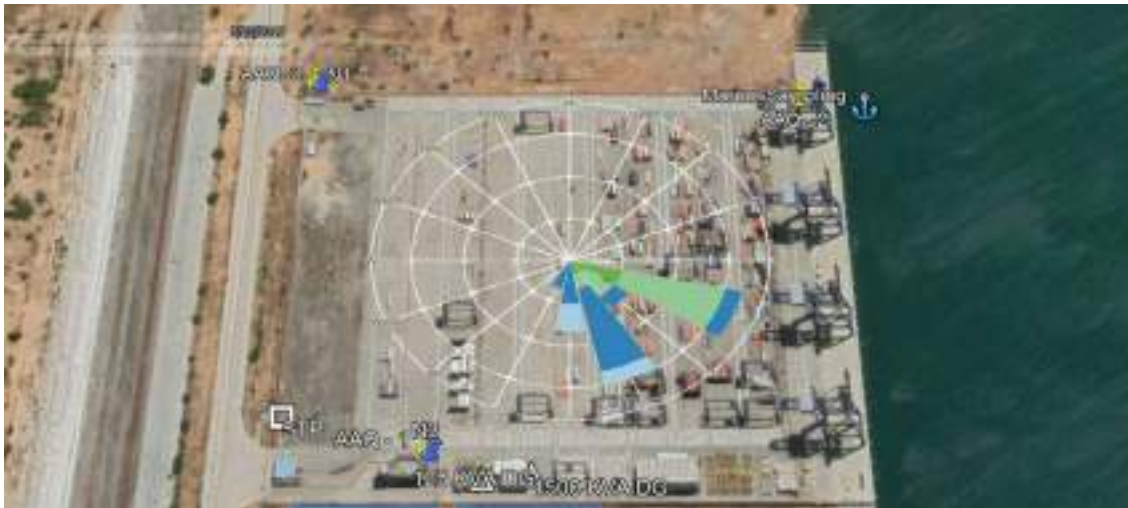
#### DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS

Station code	Location	Geographical location	Environmental setting
AAQ1	Port operating building	13.270444° N 80.334657° E	Industrial
AAQ2	RMU Building	13.273412° N 80.337600° E	Industrial
AAQ3	In Terminal Gate	13.273715° N 80.333810° E	Village

Fig - 2. AMBIENT AIR SAMPLING STATIONS LOCATION MAP



Fig.3.AMBIENT AIR SAMPLINGS STATIONS WITH RESPECT TO WIND



### TECHNIQUES USED FOR AMBIENT AIR QUALITY MONITORING

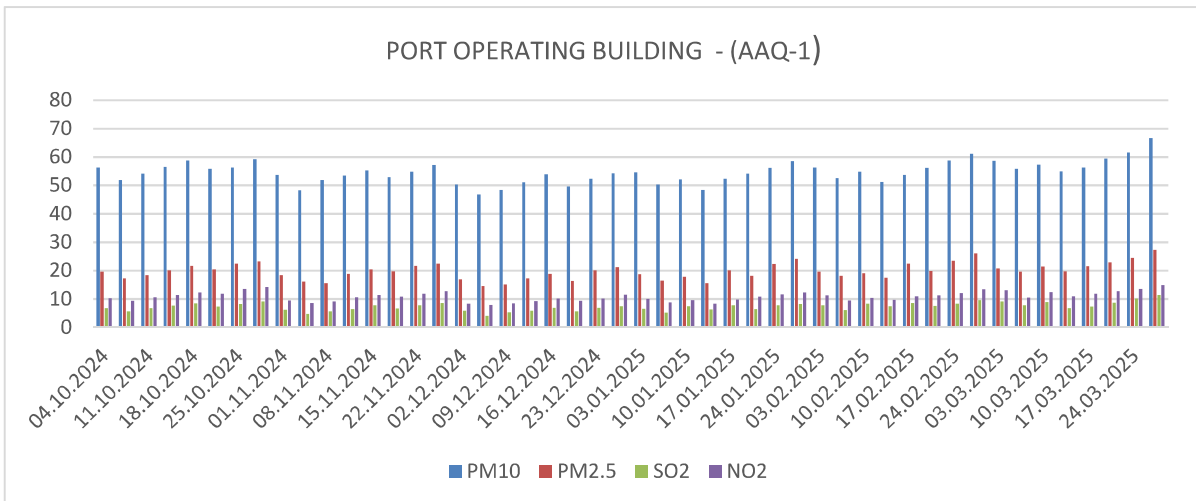
S.N o	Parameter	Technique	Unit	Minimum Detectable Limit
1	PM <sub>10</sub>	Respirable Dust Sampler (Gravimetric method)	µg/m <sup>3</sup>	1.0
2	PM <sub>2.5</sub>	Fine particle Sampler (Gravimetric method)	µg/m <sup>3</sup>	5.0
3	Sulphur Dioxide	Modified West and Gaeke method	µg/m <sup>3</sup>	4.0
4	Nitrogen Oxide	Jacob &Hochheiser method	µg/m <sup>3</sup>	6.0
5	Lead	Atomic Absorption Spectrometry	µg/m <sup>3</sup>	0.5
6	Carbon Monoxide	Draggers Tube	mg/m <sup>3</sup>	0.1
7	Ozone	UV Photometric	µg/m <sup>3</sup>	2.0
8	Ammonia	Indophenol blue method	µg/m <sup>3</sup>	2.0
9	Benzene	Gas Chromatography	µg/m <sup>3</sup>	1.0
10	Benzene (α) pyrene	Gas Chromatography	ng/m <sup>3</sup>	0.1
11	Arsenic	Atomic Absorption Spectrometry	ng/m <sup>3</sup>	1.0
12	Nickel	Atomic Absorption Spectrometry	ng/m <sup>3</sup>	5.0

### Results and Discussion

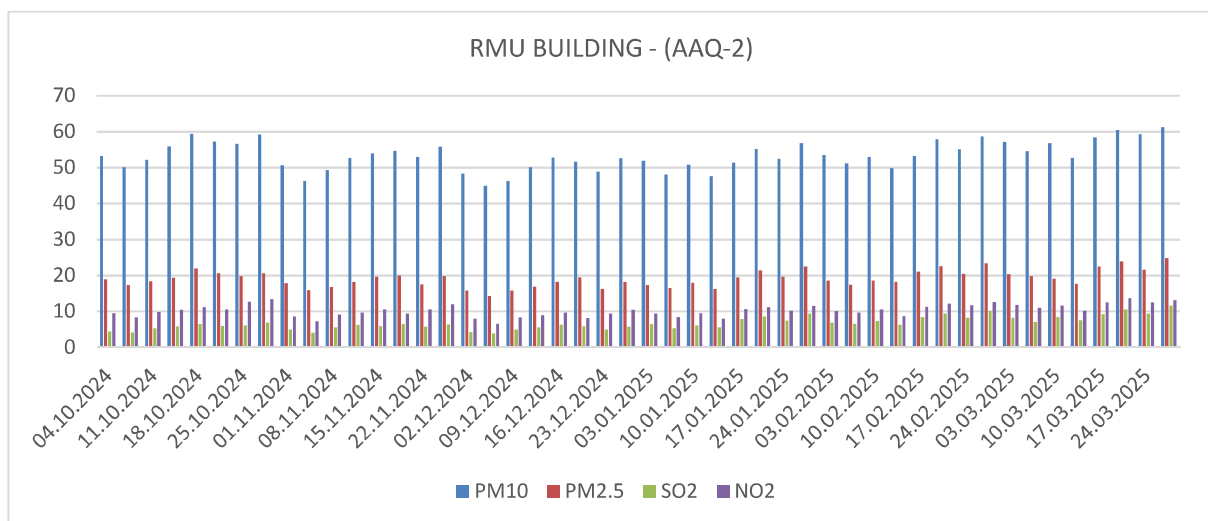
The results of the ambient air quality for the study period are submitted. The minimum, maximum 98<sup>th</sup> percentile and average values have been computed from the observed raw data for all the AAQ monitoring stations. The summary of these results for all the locations is presented in the Table and the detailed analytical results are shown in Annexure - 2. These are compared with the standards prescribed by Central Pollution Control Board (CPCB) for “Industrial, Rural, Residential and other areas”

## ANNEXURE - 2 RESULTS OF AMBIENT AIR QUALITY MONITORING DATA

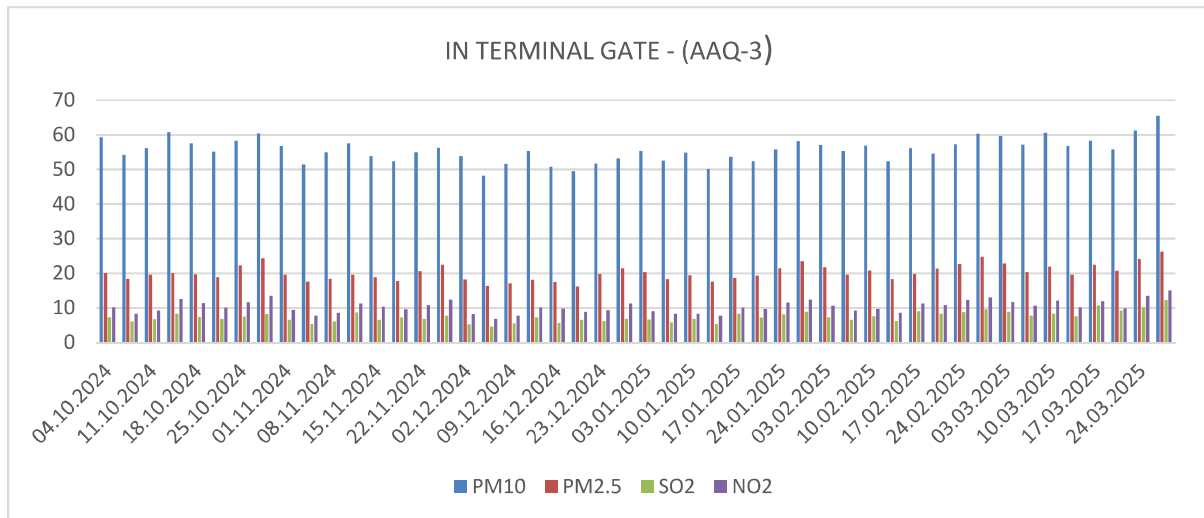
PORT OPERATING BUILDING - (AAQ1)													
Parameters		Particular matter PM10	Particular matter PM2.5	Sulphur dioxide as SO2	Nitrogen dioxide as NO2	Lead as Pb	Carbon monoxide as CO	Ozone as O3	Ammonia as NH3	Arsenic as As	Nickel as Ni	Benzene as C6H6	Benzo (a) pyrene as BaP
Unit		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3
National AAQM Standard		100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date												
1	04.10.2024	56.3	19.6	6.8	10.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
2	07.10.2024	51.8	17.3	5.6	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
3	11.10.2024	54.2	18.4	6.8	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
4	14.10.2024	56.5	20.1	7.7	11.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
5	18.10.2024	58.7	21.6	8.5	12.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
6	21.10.2024	55.9	20.4	7.3	11.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
7	25.10.2024	56.3	22.5	8.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
8	28.10.2024	59.1	23.2	9.1	14.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
9	01.11.2024	53.6	18.4	6.2	9.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
10	04.11.2024	48.2	16.1	4.7	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
11	08.11.2024	51.8	15.6	5.7	9.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
12	11.11.2024	53.4	18.9	6.4	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
13	15.11.2024	55.2	20.4	7.8	11.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
14	18.11.2024	52.9	19.7	6.7	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
15	22.11.2024	54.8	21.6	7.8	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
16	25.11.2024	57.1	22.4	8.6	12.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
17	02.12.2024	50.2	16.9	5.9	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
18	06.12.2024	46.8	14.6	4.1	7.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
19	09.12.2024	48.3	15.1	5.3	8.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
20	13.12.2024	51.1	17.3	5.9	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
21	16.12.2024	53.8	18.9	6.9	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
22	20.12.2024	49.6	16.4	5.7	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
23	23.12.2024	52.4	20.1	6.9	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
24	27.12.2024	54.3	21.2	7.4	11.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
25	03.01.2025	54.6	18.7	6.5	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
26	06.01.2025	50.2	16.5	5.2	8.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
27	10.01.2025	52.1	17.8	7.5	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
28	13.01.2025	48.3	15.6	6.3	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
29	17.01.2025	52.4	20.1	7.8	9.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
30	20.01.2025	54.1	18.2	6.4	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
31	24.01.2025	56.2	22.3	7.8	11.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
32	27.01.2025	58.5	24.1	8.2	12.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
33	03.02.2025	56.3	19.6	7.8	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
34	07.02.2025	52.6	18.2	6.1	9.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
35	10.02.2025	54.8	19.1	8.3	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
36	14.02.2025	51.2	17.5	7.4	9.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
37	17.02.2025	53.6	22.4	8.6	10.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
38	21.02.2025	56.2	19.8	7.6	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
39	24.02.2025	58.7	23.4	8.4	12.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
40	27.02.2025	61.2	26.1	9.6	13.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
41	03.03.2025	58.6	20.8	9.1	13.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
42	07.03.2025	55.8	19.6	7.8	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
43	10.03.2025	57.2	21.4	8.9	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
44	14.03.2025	54.9	19.7	6.8	10.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
45	17.03.2025	56.3	21.5	7.3	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
46	21.03.2025	59.5	22.9	8.7	12.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
47	24.03.2025	61.6	24.5	10.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1



RMU BUILDING - (AAQ2)													
Parameters		Particular matter PM10	Particular matter PM2.5	Sulphur dioxide as SO2	Nitrogen dioxide as NO2	Lead as Pb	Carbon monoxide as CO	Ozone as O3	Ammonia as NH3	Arsenic as As	Nickel as Ni	Benzene as C6H6	Benzo (a) pyrene as BaP
Unit		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3
National AAQM Standard		100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date												
1	04.10.2024	53.2	18.9	4.4	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
2	07.10.2024	50.1	17.3	4.1	8.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
3	11.10.2024	52.1	18.4	5.2	9.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
4	14.10.2024	55.9	19.3	5.8	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
5	18.10.2024	59.4	21.9	6.4	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
6	21.10.2024	57.2	20.6	5.9	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
7	25.10.2024	56.6	19.8	6.1	12.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
8	28.10.2024	59.1	20.6	6.8	13.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
9	01.11.2024	50.6	17.8	4.9	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
10	04.11.2024	46.2	15.9	4	7.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
11	08.11.2024	49.3	16.8	5.6	9.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
12	11.11.2024	52.7	18.1	6.2	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
13	15.11.2024	53.9	19.6	5.9	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
14	18.11.2024	54.6	20	6.4	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
15	22.11.2024	52.9	17.5	5.7	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
16	25.11.2024	55.8	19.8	6.3	11.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
17	02.12.2024	48.3	15.8	4.2	7.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
18	06.12.2024	44.9	14.3	3.8	6.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
19	09.12.2024	46.2	15.8	4.9	8.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
20	13.12.2024	50.1	16.9	5.6	8.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
21	16.12.2024	52.8	18.2	6.2	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
22	20.12.2024	51.6	19.4	5.8	8.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
23	23.12.2024	48.8	16.2	4.9	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
24	27.12.2024	52.6	18.2	5.7	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
25	03.01.2025	51.8	17.3	6.4	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
26	06.01.2025	48.1	16.5	5.2	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
27	10.01.2025	50.8	17.9	6.1	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
28	13.01.2025	47.6	16.2	5.6	7.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
29	17.01.2025	51.3	19.4	7.8	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
30	20.01.2025	55.2	21.4	8.6	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
31	24.01.2025	52.4	19.6	7.4	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
32	27.01.2025	56.8	22.5	9.3	11.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
33	03.02.2025	53.4	18.6	6.9	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
34	07.02.2025	51.2	17.4	6.5	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
35	10.02.2025	52.9	18.6	7.3	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
36	14.02.2025	49.8	18.1	6.2	8.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
37	17.02.2025	53.2	21.1	8.4	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
38	21.02.2025	57.8	22.6	9.3	12.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
39	24.02.2025	55.1	20.4	8.2	11.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
40	27.02.2025	58.6	23.3	10.1	12.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
41	03.03.2025	57.1	20.3	8.2	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
42	07.03.2025	54.5	19.8	7.1	10.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
43	10.03.2025	56.8	19.1	8.4	11.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
44	14.03.2025	52.7	17.6	7.5	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
45	17.03.2025	58.4	22.4	9.2	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
46	21.03.2025	60.4	23.8	10.5	13.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
47	24.03.2025	59.3	21.6	9.3	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
48	28.03.2025	61.2	24.8	11.6	13.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1



IN TERMINAL GATE - (AAQ3)													
Parameters		Particular matter PM10	Particular matter PM2.5	Sulphur dioxide as SO2	Nitrogen dioxide as NO2	Lead as Pb	Carbon monoxide as CO	Ozone as O3	Ammonia as NH3	Arsenic as As	Nickel as Ni	Benzene as C6H6	Benzo (a) pyrene as BaP
Unit		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3
National AAQM Standard		100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date												
1	04.10.2024	59.3	20.1	7.3	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
2	07.10.2024	54.2	18.4	6.1	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
3	11.10.2024	56.1	19.6	6.7	9.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
4	14.10.2024	60.7	20.1	8.3	12.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
5	18.10.2024	57.5	19.7	7.4	11.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
6	21.10.2024	55.1	18.9	6.9	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
7	25.10.2024	58.3	22.3	7.5	11.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
8	28.10.2024	60.4	24.3	8.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
9	01.11.2024	56.8	19.6	6.5	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
10	04.11.2024	51.4	17.6	5.4	7.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
11	08.11.2024	54.9	18.4	6.1	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
12	11.11.2024	57.5	19.6	8.7	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
13	15.11.2024	53.8	18.9	6.5	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
14	18.11.2024	52.4	17.8	7.3	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
15	22.11.2024	54.9	20.6	6.9	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
16	25.11.2024	56.2	22.5	7.8	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
17	02.12.2024	53.9	18.2	5.2	8.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
18	06.12.2024	48.2	16.4	4.6	6.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
19	09.12.2024	51.6	17.1	5.6	7.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
20	13.12.2024	55.3	18.1	7.3	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
21	16.12.2024	50.7	17.5	5.7	9.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
22	20.12.2024	49.5	16.2	6.5	8.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
23	23.12.2024	51.7	19.8	6.2	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
24	27.12.2024	53.2	21.4	6.9	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
25	03.01.2025	55.3	20.4	6.6	9.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
26	06.01.2025	52.6	18.3	5.8	8.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
27	10.01.2025	54.8	19.4	6.9	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
28	13.01.2025	50.1	17.6	5.4	7.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
29	17.01.2025	53.6	18.7	8.4	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
30	20.01.2025	52.4	19.3	7.2	9.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
31	24.01.2025	55.8	21.4	8.1	11.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
32	27.01.2025	58.1	23.5	8.9	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
33	03.02.2025	57.1	21.8	7.3	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
34	07.02.2025	55.3	19.6	6.5	9.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
35	10.02.2025	56.9	20.8	7.6	9.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
36	14.02.2025	52.4	18.3	6.2	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
37	17.02.2025	56.1	19.8	9.1	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
38	21.02.2025	54.6	21.3	8.4	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
39	24.02.2025	57.3	22.6	8.8	12.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
40	27.02.2025	60.3	24.8	9.6	13.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
41	03.03.2025	59.6	22.8	8.9	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
42	07.03.2025	57.2	20.4	7.8	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
43	10.03.2025	60.6	21.9	8.3	12.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
44	14.03.2025	56.7	19.6	7.6	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
45	17.03.2025	58.3	22.5	10.7	11.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
46	21.03.2025	55.8	20.7	9.2	9.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
47	24.03.2025	61.2	24.1	10.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
48	28.03.2025	65.4	26.3	12.3	15.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1



**NATIONAL AMBIENT AIR QUALITY STANDARDS  
CENTRAL POLLUTION CONTROL BOARD**

**NOTIFICATION**

New Delhi, the 15<sup>th</sup> November, 2000

No B-20016/2000-DCI-L.—In exercise of the powers conferred by Sub-section (2) (b) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981), and in super session of the Notification No(s) S.O. 384(E), dated 11<sup>th</sup> April, 1994 and S.O. 915(E), dated 14<sup>th</sup> October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

**NATIONAL AMBIENT AIR QUALITY STANDARDS**

S. No.	Pollutant	Time Weighted average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and Other Area	Ecologically sensitive area (notified by Central Govt.)	
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	50	50	<ul style="list-style-type: none"> <li>Improved West and Gaeke</li> <li>Ultraviolet fluorescence</li> </ul>
		24 hours**	80	80	
2	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	40	40	<ul style="list-style-type: none"> <li>Modified Jacob &amp; Hochheiser (Na-Arsenite)</li> <li>Chemiluminescence</li> </ul>
		24 hours**	80	80	
3	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> /m <sup>3</sup>	Annual*	60	60	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	100	100	
4	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub> µg/m <sup>3</sup>	Annual*	40	40	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	80	80	
5	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	8 hours**	100	100	<ul style="list-style-type: none"> <li>UV photometric</li> <li>Chemiluminescence</li> <li>Chemical method</li> </ul>
		1 hour**	180	180	
		Annual*	0.5	0.5	
6	Lead (Pb) µg/m <sup>3</sup>	Annual*	0.5	0.5	<ul style="list-style-type: none"> <li>AAS / ICP method after sampling on EPM 1000 or equivalent filter paper</li> <li>ED - NCF using Tetra filter</li> </ul>
		24 hours**	1.0	1.0	

7	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours**	2	2	Non Dispersive Infra RED (NDIR) Spectroscopy
		1 hour**	4	4	
8	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual*	100	100	<ul style="list-style-type: none"> <li>Chemiluminescence</li> <li>Nitrophenol blue method</li> </ul>
		24 hours**	400	400	
9	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual*	5	5	<ul style="list-style-type: none"> <li>Gas chromatography based continuous analyser</li> <li>Absorption and desorption followed by GC analysis</li> </ul>
		Annual*	5	5	
10	Benzo (a) Pyrene (BaP) - particulate phase only ng/m <sup>3</sup>	Annual*	1	1	Solvent extraction followed by HPLC / GC analysis
11	Arsenic (As) ng/m <sup>3</sup>	Annual*	6	6	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni) ng/m <sup>3</sup>	Annual*	30	30	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper

\* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

\*\* 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

**Note:** Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

## ii. AMBIENT NOISE LEVEL INTENSITY

Collection of ambient noise levels at four locations. Spot noise levels were measured with a precalibrated Noise Level Meter - SL- 4023 SD for day and night periods.

### DETAILS OF NOISE MONITORING LOCATIONS

STATION CODE	LOCATIONS	Geographical Location
N1	Port operating building	13.270444° N 80.334657° E
N2	RMU Building	13.273412° N 80.337600° E
N3	In Terminal Gate	13.273715° N 80.333810° E

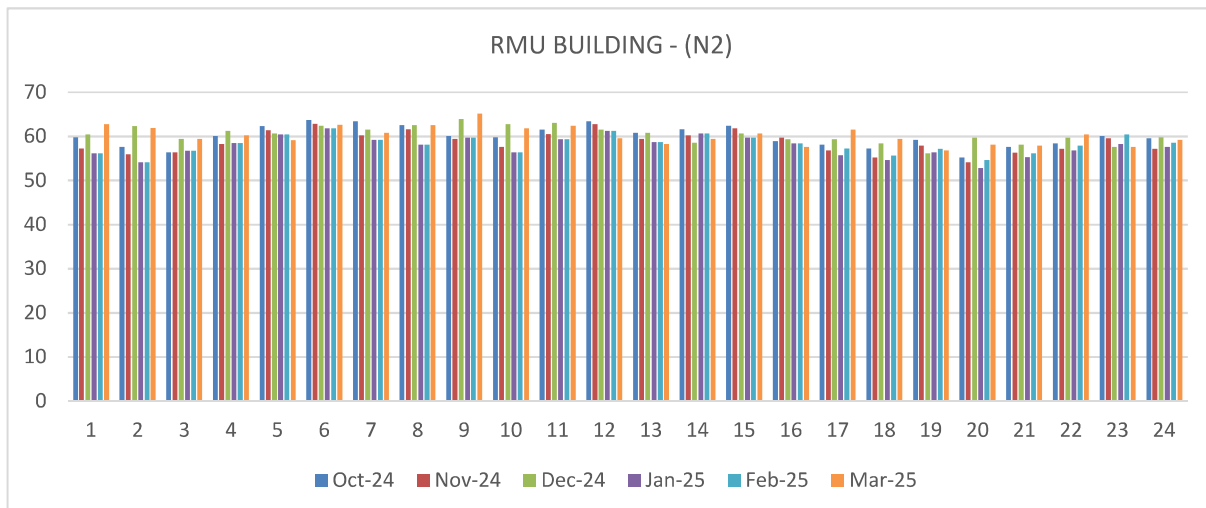
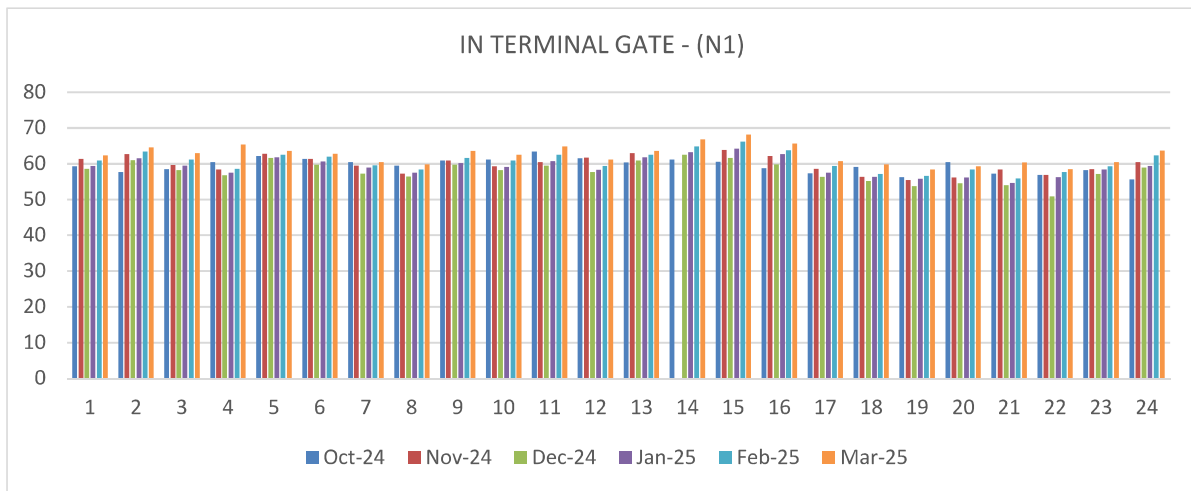
**Fig - 4. Noise Level Sampling Locations**



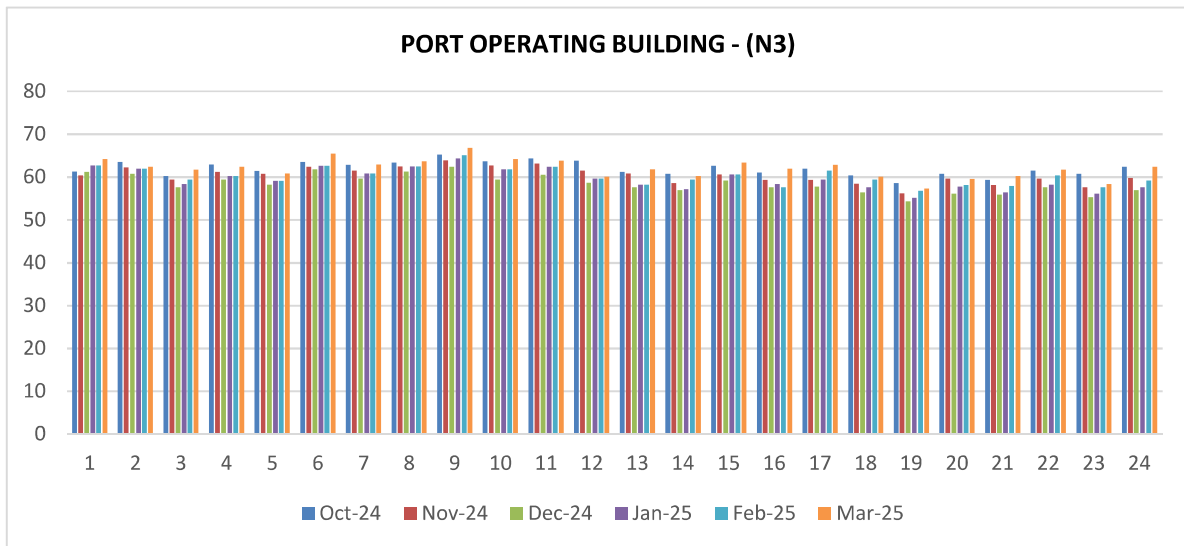
The noise levels monitored during the study period are given hereunder in form of Leq day, Leq night compared with CPCB Standards.

## ANNEXURE - 3 RESULTS OF AMBIENT NOISE LEVEL MONITORING DATA

Location		IN TERMINAL GATE - (N1)						RMU BUILDING - (N2)					
Month & Year		Oct-24	Nov-24	May-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	May-24	Jan-25	Feb-25	Mar-25
Parameter & Unit		Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)
S.N	Time of Sampling												
1	06.00 – 07.00 (Day)	59.2	61.3	58.6	59.3	60.8	62.3	59.8	57.3	54.9	56.2	56.2	58.4
2	07.00 – 08.00	57.6	62.7	60.9	61.5	63.4	64.5	57.6	55.9	53.6	54.1	54.1	55.6
3	08.00 – 09.00	58.5	59.6	58.1	59.4	61.2	62.9	56.4	56.4	55.8	56.7	56.7	57.9
4	09.00 – 10.00	60.4	58.4	56.7	57.5	58.6	65.4	60.1	58.2	57.9	58.5	58.5	59.4
5	10.00 – 11.00	62.1	62.8	61.6	61.8	62.4	63.5	62.3	61.4	59.1	60.4	60.4	61.2
6	11.00 – 12.00	61.3	61.3	59.7	60.6	61.9	62.8	63.7	62.8	60.6	61.8	61.8	64.5
7	12.00 – 13.00	60.4	59.4	57.2	58.9	59.5	60.4	63.4	60.2	58.4	59.2	59.2	60.8
8	13.00 – 14.00	59.4	57.2	56.4	57.5	58.4	59.8	62.5	61.6	57.6	58.1	58.1	59.6
9	14.00 – 15.00	60.8	60.8	59.7	60.2	61.6	63.5	60.1	59.4	58.3	59.7	59.7	61.2
10	15.00 – 16.00	61.2	59.2	58.2	59.1	60.8	62.4	59.8	57.6	55.9	56.4	56.4	58.6
11	16.00 – 17.00	63.4	60.4	59.4	60.7	62.4	64.8	61.5	60.5	58.6	59.3	59.3	60.4
12	17.00 – 18.00	61.5	61.7	57.6	58.3	59.3	61.2	63.4	62.7	61.5	61.2	61.2	62.3
13	18.00 – 19.00	60.3	62.9	60.8	61.8	62.4	63.5	60.8	59.4	57.6	58.7	58.7	59.7
14	19.00 – 20.00	61.2	64.5	62.4	63.2	64.8	66.7	61.6	60.2	59.4	60.6	60.6	61.5
15	20.00 – 21.00	60.5	63.8	61.6	64.2	66.1	68.1	62.4	61.8	58.2	59.7	59.7	63.4
16	21.00 – 22.00	58.7	62.1	59.8	62.7	63.7	65.6	58.9	59.7	57.6	58.4	58.4	60.8
17	22.00 – 23.00 (Night)	57.3	58.6	56.3	57.5	59.3	60.7	58.1	56.8	54.5	55.7	57.3	58.9
18	23.00 – 00.00	59.1	56.3	55.1	56.3	57.1	59.8	57.3	55.2	53.8	54.6	55.6	56.3
19	00.00 – 01.00	56.2	55.4	53.7	55.8	56.5	58.4	59.2	57.9	55.7	56.4	57.1	58.5
20	01.00 – 02.00	60.4	56.1	54.5	56.1	58.4	59.2	55.2	54.1	53.4	52.8	54.6	56.1
21	02.00 – 03.00	57.2	58.4	53.9	54.6	55.9	60.3	57.6	56.3	54.6	55.3	56.2	58.4
22	03.00 – 04.00	56.9	56.9	50.8	56.2	57.6	58.5	58.4	57.1	55.9	56.8	57.9	60.7
23	04.00 – 05.00	58.2	58.5	57.1	58.4	59.2	60.4	60.1	59.6	58.1	58.2	60.4	59.4
24	05.00 – 06.00	55.6	60.4	58.9	59.3	62.3	63.6	59.6	57.2	56.6	57.6	58.6	60.1



Location		PORT OPERATING BUILDING – (N3)					
Month & Year		Oct-24	Nov-24	May-24	Jan-25	Feb-25	Mar-25
Parameter & Unit		Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)
S.No.	Time of Sampling						
1	06.00 – 07.00 (Day)	61.3	60.4	61.2	62.7	62.7	64.2
2	07.00 – 08.00	63.5	62.3	60.7	61.9	61.9	62.4
3	08.00 – 09.00	60.2	59.4	57.6	58.3	59.4	61.7
4	09.00 – 10.00	62.9	61.2	59.4	60.2	60.2	62.4
5	10.00 – 11.00	61.4	60.7	58.2	59.1	59.1	60.8
6	11.00 – 12.00	63.5	62.4	61.8	62.6	62.6	65.4
7	12.00 – 13.00	62.8	61.5	59.7	60.8	60.8	62.9
8	13.00 – 14.00	63.4	62.5	61.3	62.5	62.5	63.7
9	14.00 – 15.00	65.2	63.9	62.4	64.3	65.1	66.8
10	15.00 – 16.00	63.7	62.7	59.4	61.8	61.8	64.2
11	16.00 – 17.00	64.3	63.1	60.5	62.4	62.4	63.8
12	17.00 – 18.00	63.8	61.5	58.7	59.6	59.6	60.1
13	18.00 – 19.00	61.2	60.8	57.6	58.2	58.2	61.8
14	19.00 – 20.00	60.7	58.6	56.9	57.1	59.4	60.2
15	20.00 – 21.00	62.6	60.6	59.2	60.6	60.6	63.4
16	21.00 – 22.00	61.1	59.3	57.6	58.3	57.6	61.9
17	22.00 – 23.00 (Night)	61.9	59.3	57.8	59.4	61.5	62.8
18	23.00 – 00.00	60.4	58.4	56.4	57.6	59.4	60.1
19	00.00 – 01.00	58.6	56.2	54.3	55.2	56.8	57.3
20	01.00 – 02.00	60.7	59.7	56.1	57.8	58.1	59.5
21	02.00 – 03.00	59.3	58.1	55.9	56.4	57.9	60.2
22	03.00 – 04.00	61.5	59.7	57.6	58.2	60.4	61.7
23	04.00 – 05.00	60.7	57.6	55.3	56.1	57.6	58.3
24	05.00 – 06.00	62.4	59.8	56.9	57.6	59.2	62.4



## Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Note:-
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
  2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
  3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
  4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq: It is an energy mean of the noise level over a specified period.

### iii. DG SET EMISSIONS

Sampling of Flue gas emission of 2000 KVA DG Set was done and its emissions were determined along with its noise intensity. The Detailed report has been is enclosed as Annexure - 4

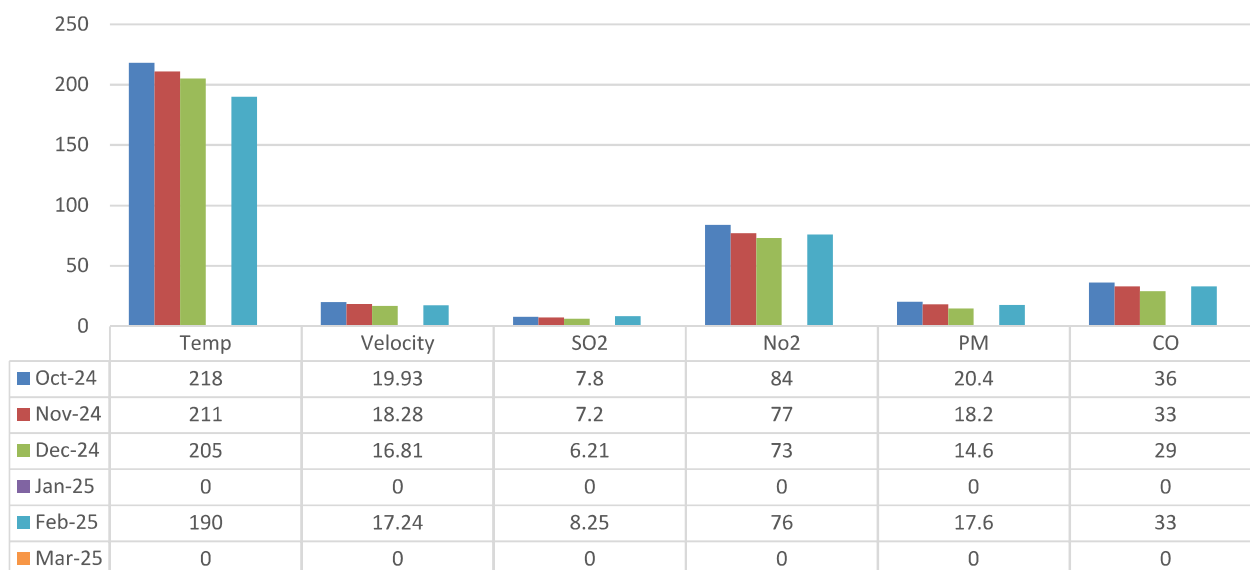
#### DETAILS OF EMISSION MONITORING LOCATIONS

STATION CODE	LOCATIONS	Geographical Location
SM-01	DG – 1 1500 KVA (Near MRSS)	13°16'13.40"N 80°20'8.15"E
SM-02	DG – 2 1500 KVA (Near MRSS)	13°16'13.40"N 80°20'8.15"E
SM-03	DG – 3 1500 KVA (Near MRSS)	13°16'13.40"N 80°20'8.15"E
SM-04	DG-4 125 KVA (Near MRSS)	13°16'13.16"N 80°20'7.19"E

#### ANNEXURE - 4 RESULTS OF SOURCE EMISSION MONITORING DATA

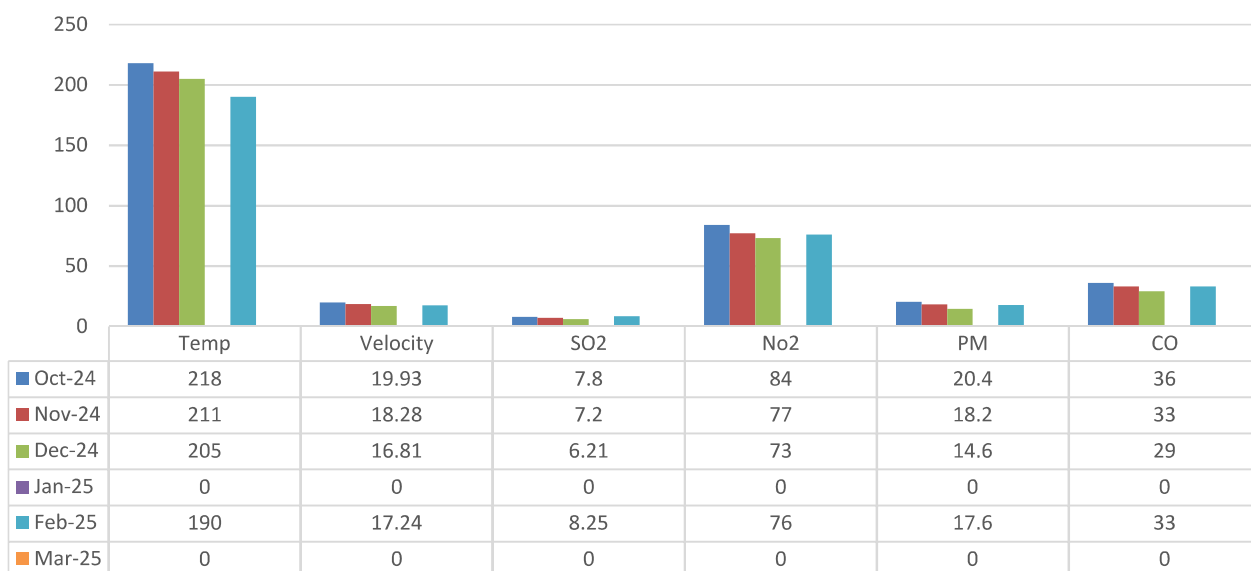
STACK MONITORING						
Location		DG 1500 KVA - 1				
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25
S.No.	Parameters					
1	Stack Temperature, °C	218	211	205	-	190
2	Flue Gas Velocity, m/s	19.93	18.28	16.81		17.24
3	Sulphur Dioxide, mg/Nm <sup>3</sup>	7.8	7.2	6.21		8.25
4	NOX (as NO <sub>2</sub> ) in ppmv	84	77	73		76
5	Particular matter, mg/Nm <sup>3</sup>	20.4	18.2	14.6		17.6
6	Carbon Monoxide, mg/Nm <sup>3</sup>	36	33	29		33
7	Gas Discharge, Nm <sup>3</sup> /hr	17359	15385	10584		8328

DG Set 1500 KVA -1



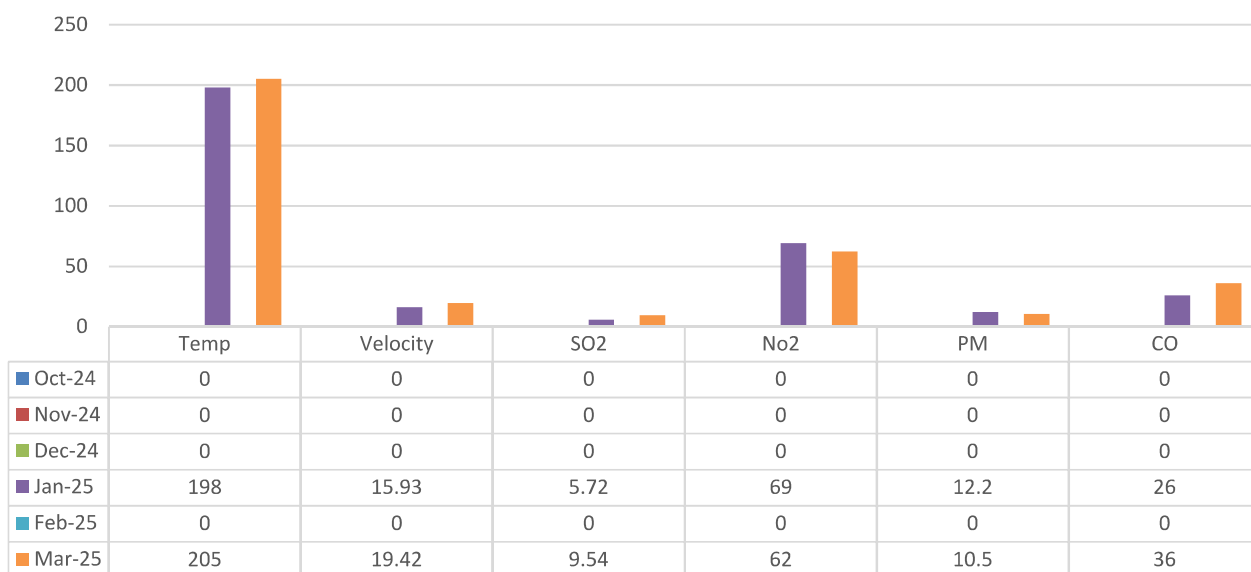
STACK MONITORING							
Location		DG 1500 KVA - 2					
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.No.	Parameters						
1	Stack Temperature, °C	210	203	196	-	182	-
2	Flue Gas Velocity, m/s	18.13	17.35	15.34		16.03	
3	Sulphur Dioxide, mg/Nm3	6.3	5.8	4.27		6.18	
4	NOX (as NO2) in ppmv	79	72	66		71	
5	Particular matter, mg/Nm3	16.9	15.1	12.5		15.4	
6	Carbon Monoxide, mg/Nm3	30	27	24		27	
7	Gas Discharge, Nm3/hr	16045	13694	8463		7159	

DG Set 1500 KVA -2



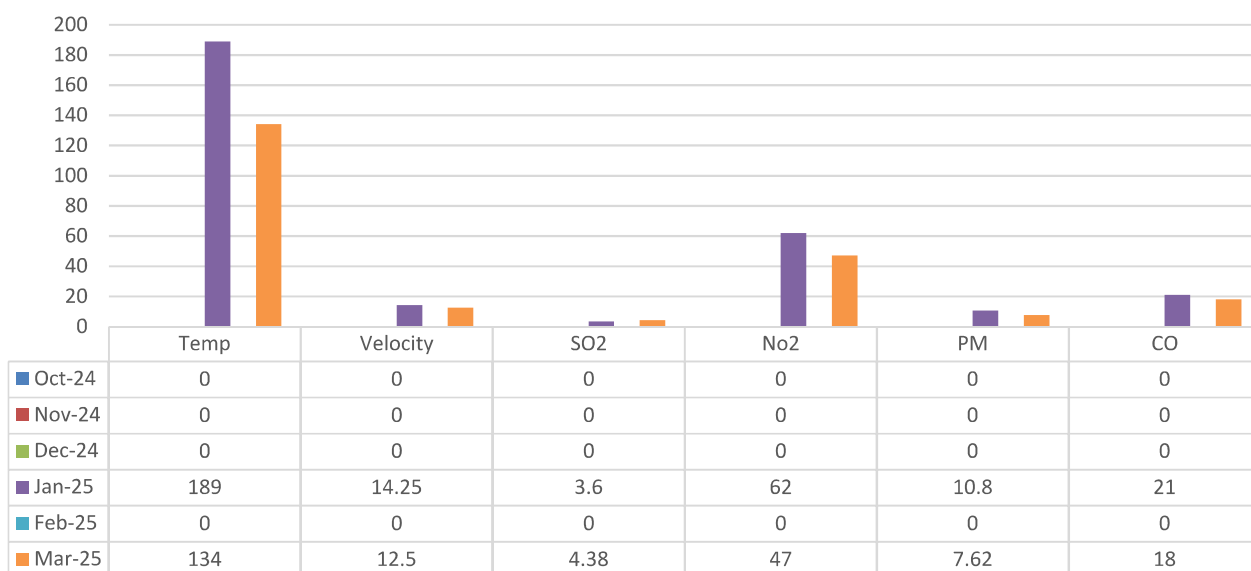
STACK MONITORING						
Location		DG 1500 KVA - 3				
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Mar-25
S.No.	Parameters					
1	Stack Temperature, °C	-	-	-	198	205
2	Flue Gas Velocity, m/s				15.93	19.42
3	Sulphur Dioxide, mg/Nm3				5.72	9.54
4	NOX (as NO2) in ppmv				69	62
5	Particular matter, mg/Nm3				12.2	10.5
6	Carbon Monoxide, mg/Nm3				26	36
7	Gas Discharge, Nm3/hr				7546	8750

DG Set 1500 KVA -3



STACK MONITORING							
Location		DG 125 KVA - 4					
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.No.	Parameters						
1	Stack Temperature, °C	-	-	-	189	-	134
2	Flue Gas Velocity, m/s				14.25		12.5
3	Sulphur Dioxide, mg/Nm3				3.60		4.38
4	NOX (as NO2) in ppmv				62		47
5	Particular matter, mg/Nm3				10.8		7.62
6	Carbon Monoxide, mg/Nm3				21		18
7	Gas Discharge, Nm3/hr						

DG Set 125 KVA -4



Parameter	Area Category	Total engine rating of the plant (includes existing as well as new generator sets)	Generator sets commissioning date		
			Before 1.7.2003	Between 1.7.2003 and 1.7.2005	On or after 1.7.2005
NO <sub>x</sub> (as NO <sub>2</sub> ) (At 15% O <sub>2</sub> , dry basis, in ppmv)	A	Up to 75 MW	1100	970	710
	B	Up to 150 MW			
	A	More than 75 MW	1100	710	360
	B	More than 150 MW			
NMHC (as C) (at 15% O <sub>2</sub> ), mg/Nm <sup>3</sup>	Both A and B		150	100	
PM (at 15% O <sub>2</sub> ), mg/Nm <sup>3</sup>	Diesel Fuels- HSD & LDO	Both A and B	75	75	
	Furnace Oils- LSHS & FO	Both A and B	150	100	
CO (at 15% O <sub>2</sub> ), mg/Nm <sup>3</sup>	Both A and B		150	150	

<sup>1</sup> Inserted by Rule 2(b) of the Environment (Protection) Second Amendment Rules, 2008 notified by G.S.R.280(E), dated 11.8.2008.

<sup>2</sup> Serial No.96 and entries relating thereto inserted by Rule 2 of the Environment (Protection) Third Amendment Rules, 2002 notified vide Notification G.S.R.489(E), dated 9.7.2002.

**iv. STP WATER SAMPLE ANALYSIS**

Water samples were collected at the following points.

- 25 KLD Inlet and Treated Water Outlet

**DETAILS OF STP WATER LOCATIONS**

STATION CODE	LOCATIONS	Geographical Location
STP – 1	25 KLD	13°16'15.33"N 80°20'0.46"E

Analysis results of the water sample collected from the above location are enclosed as Annexure - 5.

**ANNEXURE - 5 RESULTS OF STP WATER QUALITY DATA**

STP WATER													
Location		STP 25KLD INLET						STP 25KLD OUTLET					
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.N	Parameters												
1	pH @ 25°C	7.38	7.19	7.36	7.12	7.38	7.51	6.75	6.62	6.91	6.80	6.92	7.04
2	Total Suspended	116	124	115	110	98.0	115	22.0	25.0	20.0	16.0	12.0	17.0
3	BOD at 27°C for 3	50	58	51	45.0	37.0	50.0	15.0	17.0	13.0	10.0	8.0	14.0
4	Fecal Coliform	810	840	760	710	660	690	60	80	50	40	20	30
5	COD	120	140	110	90.0	70.0	110	40	56	40	30	20.0	50.0
6	Oil & Grease	3.0	3.5	2.5	2.0	1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7	Total Dissolved Solids	1040	1124	1010	940	878	960	870	910	840	780	710	756
8	Chlorides (as Cl)	415	432	406	380	361	375	364	380	365	350	336	348
9	Sulphates (as SO4)	52	58	53	46	42	48	39	43	38	33	30	36

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

## NOTIFICATION

New Delhi, the 13th October, 2017

**G.S.R. 1205(E).**—In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. **Short title and commencement.**—(1) These rules may be called the Environment (Protection) Amendment Rules, 2017.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I after serial number 104 and the entries relating thereto, the following serial number and entries shall be inserted, namely:—

Sl. No.	Industry	Parameters	Standards	
1	2	3	4	
		Effluent discharge standards (applicable to all mode of disposal)		
105	Sewage Treatment Plants (STPs)		Location	Concentration not to exceed
			(a)	(b)
		pH	Anywhere in the country	6.5-9.0
		Bio-Chemical Oxygen Demand (BOD)	Metro Cities*, all State Capitals except in the State of Arunachal Pradesh, Assam, Manipur, Meghalaya Mizoram, Nagaland, Tripura Sikkim, Himachal Pradesh, Uttarakhand, Jammu and Kashmir, and Union territory of	20

			Andaman and Nicobar Islands, Dadar and Nagar Haveli Daman and Diu and Lakshadweep	
			Areas/regions other than mentioned above	30
		Total Suspended Solids (TSS)	Metro Cities*, all State Capitals except in the State of Arunachal Pradesh, Assam, Manipur, Meghalaya Mizoram, Nagaland, Tripura Sikkim, Himachal Pradesh, Uttarakhand, Jammu and Kashmir and Union territory of Andaman and Nicobar Islands, Dadar and Nagar Haveli Daman and Diu and Lakshadweep	<50
			Areas/regions other than mentioned above	<100
		Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)	Anywhere in the country	<1000

\*Metro Cities are Mumbai, Delhi, Kolkata, Chennai, Bengaluru, Hyderabad, Ahmedabad and Pune.

**v. DRINKING WATER SAMPLE ANALYSIS**

Drinking Water samples were collected at the Canteen or Office Building. Analysis results of the water sample collected from the above location are enclosed as Annexure - 6.

**vi. RAW WATER SAMPLE ANALYSIS**

Raw water samples were collected at the Pond. Analysis results of the water sample collected from the above location are enclosed as Annexure - 7.

**ANNEXURE - 6 RESULTS OF WATER SAMPLE (DRINKING WATER) QUALITY DATA**

DRINKING WATER								
S.No.	Month & Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Colour	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.01	0.01	<0.1	<0.1	<0.1	<0.1
5	pH @ 25°C	-	6.83	6.71	6.87	6.75	6.92	7.10
6	Total Hardness as CaCO <sub>3</sub>	mg/l	21.3	16.8	14.2	20.4	26.8	18.8
7	Iron as Fe	mg/l	0.01	0.01	0.01	0.02	0.04	0.01
8	Chloride as Cl	mg/l	17.8	14.5	10.6	15.0	19.6	13.2
9	Total Residual Chlorine	mg/l	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)
10	Total Dissolved Solids	mg/l	48.6	39.0	30.2	43.5	58.1	37.5
11	Calcium as Ca	mg/l	4.32	3.51	2.95	3.81	4.97	4.52
12	Copper as Cu	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
13	Manganese as Mn	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
14	Sulphate as SO <sub>4</sub>	mg/l	0.79	0.75	0.69	1.03	2.0	1.0
15	Nitrate as NO <sub>3</sub>	mg/l	0.52	0.47	0.41	0.67	0.71	0.45
16	Fluoride as F	mg/l	0.06	0.04	0.02	0.04	0.06	0.03
17	Phenolic compounds as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
18	Mercury as Hg	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
19	Cadmium as Cd	mg/l	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)
20	Selenium as Se	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
21	Arsenic as As	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
22	Lead as Pb	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
23	Zinc as Zn	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
24	Anionic Detergents	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
25	Total Chromium as Cr	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
26	Phenolphthalein Alkalinity as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
27	Total Alkalinity as CaCO <sub>3</sub>	mg/l	22.4	17.2	14.6	21.4	28.6	20.5
28	Aluminium as Al	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
29	Boron as B	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
30	Magnesium as Mg	mg/l	2.57	1.95	1.66	2.67	3.49	1.86
31	Mineral Oil	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
32	Polynuclear Aromatic Hydrocarbons as [PAH]	mg/l	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)
33	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent
34	Cyanide as CN	mg/l	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)
35	E. coli	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent
36	Total Coliform	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent

## ANNEXURE - 7 RESULTS OF RAW WATER WATAER SAMPLE QUALITY DATA

DRINKING WATER								
S.No.	Month & Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Colour	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.43	0.36	0.28	0.33	0.37	0.26
5	pH @ 25°C	-	6.78	6.70	6.97	7.10	7.42	7.31
6	Total Hardness as CaCO <sub>3</sub>	mg/l	218	206	195	185	198	209
7	Iron as Fe	mg/l	0.06	0.04	0.02	0.04	0.07	0.09
8	Chloride as Cl	mg/l	249	230	215	202	215	228
9	Total Residual Chlorine	mg/l	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)
10	Total Dissolved Solids	mg/l	742	692	639	590	625	652
11	Calcium as Ca	mg/l	44.7	42.3	40.8	39.2	41.2	43.1
12	Copper as Cu	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
13	Manganese as Mn	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
14	Sulphate as SO <sub>4</sub>	mg/l	63.1	57.4	53.7	50.9	54.3	59.5
15	Nitrate as NO <sub>3</sub>	mg/l	11.5	10.2	8.9	7.54	8.15	9.67
16	Fluoride as F	mg/l	0.18	0.15	0.11	0.09	0.12	0.15
17	Phenolic compounds as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
18	Mercury as Hg	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
19	Cadmium as Cd	mg/l	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)
20	Selenium as Se	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
21	Arsenic as As	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
22	Lead as Pb	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
23	Zinc as Zn	mg/l	0.021	0.018	0.014	0.011	0.014	0.012
24	Anionic Detergents	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
25	Total Chromium as Cr	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
26	Phenolphthalein Alkalinity as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
27	Total Alkalinity as CaCO <sub>3</sub>	mg/l	338	310	283	260	281	298
28	Aluminium as Al	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
29	Boron as B	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
30	Magnesium as Mg	mg/l	26.0	24.5	22.8	21.4	23.5	24.9
31	Mineral Oil	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
32	Polynuclear Aromatic Hydrocarbons as [PAH]	mg/l	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)
33	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent
34	Cyanide as CN	mg/l	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)
35	E. coli	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent
36	Total Coliform	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent

### vii. Marine Sampling

Marine Water samples and sediment samples were collected at locations South side berth and North side berth. Analysis data of Marine and sediments as represented in Annexure - 8 & 9.

#### DETAILS OF MARINE WATER AND SEDIMENT LOCATIONS

STATION CODE	LOCATIONS	Geographical Location
MW - 1 / MS - 1	CB - 1	13 <sup>0</sup> 18' 50" N 80 <sup>0</sup> 20' 51" E
MW - 2 / MS - 2	CB - 2	13 <sup>0</sup> 18' 46" N 80 <sup>0</sup> 20' 49" E
MW - 3 / MS - 3	BERTH - 3	13 <sup>0</sup> 18' 41" N 80 <sup>0</sup> 21' 4" E

Fig - 5. Water and Marine Sampling Locations



## ANNEXURE – 8 RESULTS OF MARINE WATER QUALITY DATA

MARINE WATER														
S.NO	PARAMETER	UNITS	Berth Area											
			Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25	
Physicochemical Parameters			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	Colour	Hazan	25	38	23	35	20	32	16	27	19	30	26	37
2	Odour	-	Unobjecti onable	Unobjectio nable	Unobjecti onable	Unobject ionable	Unobject ionable	Unobject ionable	Unobject ionable	Unobject ionable	Unobject ionable	Unobjec tionable	Unobject ionable	Unobjec tionable
3	pH @ 25°C	-	7.65	7.78	7.74	7.88	7.80	7.95	7.51	7.63	7.72	7.85	7.39	7.67
4	Temperature	°C	27.6	27.1	27.5	27.0	27.3	26.8	27.1	26.6	27.6	26.9	27.2	27.7
5	Turbidity	NTU	32	53	30	51	26	46	30	54	28	50	36.0	54.0
6	Total Suspended Solids	mg/L	21	35	18	32	15	27	12	23	17	28	23	34
7	BOD at 27 oC for 3 days	mg/L	17.0	13.0	15.0	11.0	13.0	9.0	18.0	13.0	20.0	16.0	17.0	12.0
8	COD	mg/L	58.4	48.1	56.0	45.8	52.5	41.8	58.0	45.0	65.1	52.9	61.0	48.0
9	Dissolved oxygen	mg/L	6.5	5.3	6.3	5.5	6.5	5.8	5.6	5.2	5.4	5.0	5.9	5.2
10	Salinity at 25 °C	ppt	41.5	37.1	41.2	36.8	41.0	36.5	36.4	31.9	39.2	34.6	31.6	27.6
11	Oil & Grease	mg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)
Nutrient Parameters														
12	Nitrate as No3	mg/L	9.4	11.2	8.5	11.0	7.89	10.2	7.29	9.54	8.04	10.0	7.43	8.92
13	Nitrite as No2	mg/L	3.92	2.31	3.59	2.23	3.38	2.14	3.05	2.43	3.61	2.76	3.16	2.18
14	Ammonical Nitrogen as N	mg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL(D L : 1.0)
15	Total Nitrogen	mg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL(DL : 1.0)	BDL(D L : 1.0)
16	Inorganic phosphates as PO4	mg/L	5.54	9.21	5.47	9.05	5.21	8.72	4.95	7.98	5.42	8.67	4.92	8.14
17	Silica as SiO2	mg/L	6.02	7.50	5.95	7.37	5.80	7.16	4.62	7.83	5.39	8.73	5.06	7.92
18	Particulate Organic Carbon	µgC/L	15	24	13	22	11	19	14	23	17	26	13	21
19	Petroleum Hydrocarbons	µg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL(DL : 1.0)	BDL(D L : 1.0)
Heavy Metals														
20	Cadmium as Cd	mg/L	BDL (DL : 0.001)	BDL (DL : 0.01)	BDL (DL : 0.001)	BDL (DL : 0.01)	BDL (DL : 0.001)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
21	Copper as Cu	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
22	Total Iron as Fe	mg/L	0.48	0.65	0.45	0.61	0.42	0.57	0.48	0.63	0.53	0.67	0.48	0.61
23	Zinc as Zn	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
24	Lead as Pb	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
25	Mercury as Hg	mg/L	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)
26	Nickel as Ni	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
27	Total Chromium as Cr	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
Bacteriological Parameters														
28	Escherichia Coli (ECLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
29	Faecal Coliform (FCLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
30	Pseudomonas aeruginosa (PALO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
31	Streptococcus Fecalis (SFCLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
32	Shigella (SHLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
33	Salmonella (SLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
34	Total Coliform (TC)	per100m	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

35	Total Viable Count (TVC)	cfu/ml	71	87	62	79	57	76	63	82	60	78	54	74
36	Vibrio cholera (VC)	per100m	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
37	Vibrio parahaemolyticus (VPA)	per100m	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

## CB - 1

Month & Year			Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25	
S.No	Parameters	Unit	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
38	Primary Productivity	mg C/m3 /hr	9.48	8.49	9.50	8.52	9.52	8.53	10.9	8.02	10.2	7.67	9.1	7.34
39	Chlorophyll a	mg /m3	7.25	5.15	7.27	5.18	7.29	5.20	6.83	4.22	5.98	3.85	4.62	3.19
40	Phaeopigment	mg /m3	5.35	4.87	5.39	4.88	5.41	4.90	5.12	4.64	4.71	4.02	4.04	3.83
41	Total Biomass	ml /100 m3	1.94	2.47	1.96	2.49	1.98	2.51	2.03	2.76	1.85	2.38	1.46	2.09

## PHYTOPLANKTON

42	Bacteriastrium hyalinum	nos/ml	40	18	43	21	46	23	54	26	50	24	61	29
43	Bacteriastrium varians	nos/ml	35	25	38	28	41	30	47	34	44	31	50	37
44	Chaetoceros didymus	nos/ml	41	34	35	29	39	33	44	38	40	35	47	31
45	Chaetoceros decipiens	nos/ml	20	16	18	12	15	08	20	12	17	09	23	14
46	Biddulphia mobiliensis	nos/ml	23	20	28	23	31	25	37	21	33	17	39	21
47	Ditylum brightwellii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
48	Gyrosigma sp	nos/ml	29	18	31	20	34	23	29	20	24	16	20	12
49	Cladophyxis sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
50	Coscinodiscus centralis	nos/ml	34	27	39	29	43	31	36	26	32	23	26	20
51	Coscinodiscus granii	nos/ml	33	25	31	23	34	26	30	23	27	19	21	15
52	Cylotella sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
53	Hemidiscus hardmanianus	nos/ml	61	45	65	48	60	43	69	48	62	44	54	38
54	Laudaria annulata	nos/ml	36	39	38	43	34	29	42	36	38	31	31	24
55	Pyropacus horologicum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
56	Pleurosigma angulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
57	Leptocylindrus danicus	nos/ml	21	14	17	11	23	14	20	11	16	08	13	05
58	Guinardia flaccida	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
59	Rhizosolenia alata	nos/ml	33	24	36	27	41	32	37	28	32	25	27	21
60	Rhizosolenia imbricata	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
61	Rhizosolenia semispina	nos/ml	59	35	63	38	58	34	52	28	47	23	40	18
62	Thalassionema nitzschioides	nos/ml	30	34	28	32	31	25	27	21	24	19	21	15
63	Triceratium reticulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
64	Ceratium trichoceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
65	Ceratium furca	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
66	Ceratium macroceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
67	Ceracium longipes	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## ZOOPLANKTONS

68	Acrocalanus gracilis	nos/ml	57	30	62	33	65	39	58	43	53	35	44	30
69	Acrocalanus sp	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
70	Paracalanus parvus	nos/ml	35	31	37	24	41	28	48	31	45	28	41	24
71	Eutintinus sps	nos/ml	29	18	25	15	21	13	27	18	22	15	27	19
72	Centropages furcatus	nos/ml	45	25	49	28	45	33	49	38	43	31	51	37
73	Corycaeus dana	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
74	Oithona brevicornis	nos/ml	49	32	53	34	59	37	66	46	61	42	69	47
75	Euterpina acutifrons	nos/ml	49	42	51	45	55	48	50	42	46	37	48	32
76	Metacalanus aurivilli	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
77	Copepod nauplii	nos/ml	25	21	29	20	31	23	26	19	22	16	19	13
78	Cirripede nauplii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
79	Bivalve veliger	nos/ml	17	13	19	14	23	18	17	13	14	10	10	8
80	Gastropod veliger	nos/ml	23	12	26	16	31	20	37	26	31	21	23	17

## ANNEXURE - 9 RESULTS OF MARINE SEDIMENT QUALITY DATA

SEA SEDIMENT								
Location		CB – 1						
Month & Year		Uni	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.No.	Parameters							
1	Total organic matter	%	0.74	0.69	0.64	0.60	0.55	0.43
2	% Sand	%	54	51	54	52	58	54
3	%silt	%	36	34	36	33	31	27
4	%Clay	%	10	15	10	15	11	19
5	Iron (as Fe)	mg/kg	26.9	25.8	23.6	20.1	22.6	26.4
6	Aluminium (as Al)	mg/kg	8054	7859	7610	7325	7510	7193
7	Chromium (as cr)	mg/kg	51	48	42	38	41	34
8	Copper (as cu)	mg/kg	39	36	31	28	33	30
9	Manganese (as Mn)	mg/kg	63	60	57	61	65	61
10	Nickel (as Ni)	mg/kg	41	39	34	39	36	32
11	Lead (as Pb)	mg/kg	10	08	06	08	10	7
12	Zinc (as Zn)	mg/kg	236	231	210	198	105	96
13	Mercury(as Hg)	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
14	Total phosphorus as P	mg/kg	68.5	66.1	61.8	56.5	59.8	52.1
15	Octane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
16	Nonane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
17	Decane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
18	Undecane	mg/kg	0.47	0.45	0.38	0.35	0.40	0.42
19	Dodecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
20	Tridecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
21	Tetradecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
22	Phntadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
23	Hexadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
24	Heptadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
25	Octadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
26	Nonadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
27	Elcosane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
I. Nematoda								
28	Oncholaimussp	mg/kg	48	51	53	50	47	41
29	Tricomasp	mg/kg	32	35	39	36	33	27
II. Foraminifera								
30	Ammoniaebecarii	mg/kg	33	36	33	27	25	22
31	Quinquilinasp	mg/kg	26	23	28	24	21	17
32	Discorbinellasp.,	mg/kg	31	29	32	37	33	27
33	Bolivinaspathulata	mg/kg	28	30	38	42	39	35
34	Elphidiumsp	mg/kg	21	23	24	28	25	20
35	Noniondepressula	mg/kg	24	27	29	31	29	24
III. Molluscs-Bivalvia								
36	Meretrixveligers	mg/kg	34	36	31	36	32	26
37	Anadoraveligers	mg/kg	20	22	26	24	22	17
	Total No. of individuals	mg/kg	297	312	333	335	324	256
	Shanon Weaver Diversity Index	mg/kg	2.65	2.27	2.28	2.03	2.10	2.26

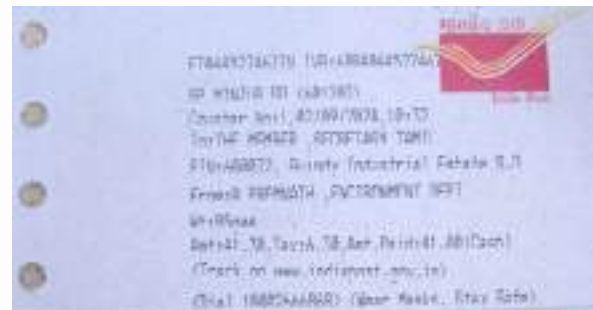
**ANNEXURE – 2**  
**(Annual Environment Statement in Form-V)**

AECTPL/ENV/TNPCCB-ES/2024/41

Date: 27.08.2024

To,

The Member Secretary,  
Tamil Nadu Pollution Control Board,  
No. 76, Mount Salai,  
Guindy,  
Chennai - 600 032.



Dear Sir,

**Sub: Adani Ennore Container Terminal Private Limited (AECTPL) - Submission of Environmental Statement (Form V) for the financial year ending 31<sup>st</sup> March 2024 - Reg.**

Ref: 1. Consent to Operate Order No. 2108136876855 dated 24.08.2021 under Water Act  
2. Consent to Operate Order No. 2108236876855 dated 24.08.2021 under Air Act

With reference to the captioned subject and cited references above, we submit herewith the Environmental Statement of M/s Adani Ennore Container Terminal Private Limited, in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31<sup>st</sup> March 2024.

Submitted for your kind information and records.

Thanking You

For, M/s. ADANI ENNORE CONTAINER TERMINAL PRIVATE LIMITED

R. Premnath

Head - Environment & Sustainability

Enclosure: as above

Copy To:

1. The Joint Chief Environmental Engineer, Tamilnadu Pollution Control Board, First Floor, 950/1, Poonamallee High Road, Arumbakkam, Chennai-600 106
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, Gummidipoondi - 601201.

Adani Ennore Container Terminal Pvt Ltd  
Adani House  
Nr Mithakhali Circle, Navrangpura  
Ahmedabad 380 009  
Gujarat, India

Tel +91 79 2656 56 5555  
Fax +91 79 2555 5500  
info@adani.com  
www.adani.com  
CIN:U61200GJ2014PTCO78795

AECTPL/ENV/TNPCCB-ES/2024/41

Date: 27.08.2024

To,

The Member Secretary,  
Tamil Nadu Pollution Control Board,  
No. 76, Mount Salai,  
Guindy,  
Chennai - 600 032.

Dear Sir,

**Sub:** Adani Ennore Container Terminal Private Limited (AECTPL) - Submission of Environmental Statement (Form V) for the financial year ending 31<sup>st</sup> March 2024 - Reg.

**Ref:** 1. Consent to Operate Order No. 2108136876855 dated 24.08.2021 under Water Act  
2. Consent to Operate Order No. 2108236876855 dated 24.08.2021 under Air Act

With reference to the captioned subject and cited references above, we submit herewith the Environmental Statement of M/s Adani Ennore Container Terminal Private Limited, in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31<sup>st</sup> March 2024.

Submitted for your kind information and records.

Thanking You

For, M/s. ADANI ENNORE CONTAINER TERMINAL PRIVATE LIMITED.



R. Premnath



Head - Environment & Sustainability

Enclosure: as above

Copy To:

1. The Joint Chief Environmental Engineer, Tamilnadu Pollution Control Board, First Floor, 950/1, Poonamallee High Road, Arumbakkam, Chennai-600 106
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, Gummidipoondi - 601201.

Adani Ennore Container Terminal Pvt Ltd  
Adani House  
Nr Mithakhali Circle, Navrangpura  
Ahmedabad 380 009  
Gujarat, India

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Fax +91 79 2555 5500  
info@adani.com  
www.adani.com  
CIN:U61200GJ2014PTCO78795

### **Form-V**

(See rule 14 of Environment (Protection) Rules, 1986)

#### **Environmental Statement for the financial year ending 31<sup>st</sup> March 2024**

#### **PART – A**

i) <b>Name and Address of the owner / occupier of the industry operation or process</b>	:	<b>Mr. Madhanmohan T</b> <b>Chief Executive Officer</b> Adani Ennore Container Terminal Private Limited C/O Kamarajar Port Limited Vallur Post, Ennore Thiruvallur District- 600 120 Tamil Nadu, India
ii) <b>Industry Category</b>	:	<b>Primary : Red</b> <b>Secondary : 1046 – Ports and Harbour, Jetties and Dredging Operations.</b>
iii) <b>Production Capacity</b>	:	<b>Cargo Handling Capacity: 11.68 MMTPA of Container cargo (as per CTO)</b>  <b>Cargo handled during 2023-34 is 10.06 MMTPA</b>
iv) <b>Year of establishment</b>	:	<b>2016</b>
v) <b>Date of the last environmental statement submitted</b>	:	<b>Vide our Letter No. AECTPL/TNPCB/GMP/ES/2023/26 dated 23.09.2023</b>

**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

**(i) Water Consumption**

S. No	Water Consumption (m <sup>3</sup> / Day)	2022-2023	2023-2024
1.	Process	NIL	NIL
2.	Cooling	NIL	NIL
3.	Domestic	12.1	15.4

The unit does not undergo any manufacturing process. The water consumed is mainly for Firefighting, dust suppression, Greenbelt development, etc.

Name of the products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Not Applicable	NIL	NIL

**(ii) Raw Material Consumption**

S. No.	Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
			During the previous financial year (2022-23)	During the current financial year (2023-24)
1	Not Applicable	Not Applicable	NIL	NIL
The unit does not undergo any manufacturing process. Hence, there is no raw material consumption.				

## PART – C

### POLLUTION DISCHARGE TO ENVIRONMENT/ UNIT OF OUTPUT

(Parameters as specified in the consent issued)

Pollution	Quality of Pollutants Discharged (Mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reasons																												
a) Water																															
BOD (Kg/KL)	0.005485	12.92 mg/L	Nil																												
TSS (KG/KL)	0.010750	18.08 mg/L	Nil																												
STP Treated Water Characteristics: -																															
<table border="1"> <thead> <tr> <th>Parameter</th><th>Consent Limit</th><th>Actual</th><th>% Variation with prescribed standard</th></tr> </thead> <tbody> <tr> <td>pH</td><td>5.5-9</td><td>6.52</td><td>-Nil-</td></tr> <tr> <td>Total Suspended Solids (mg/l)</td><td>30</td><td>18.08</td><td>-Nil-</td></tr> <tr> <td>BOD (3 days at 27°C) (mg/l)</td><td>20</td><td>12.92</td><td>-Nil-</td></tr> <tr> <td>Fecal Coliform (MPN/100ml)</td><td>1000</td><td>87</td><td>-Nil-</td></tr> <tr> <td>COD</td><td>-</td><td>41</td><td>-Nil-</td></tr> <tr> <td>Total Dissolved Solids</td><td>-</td><td>644</td><td>-Nil-</td></tr> </tbody> </table>				Parameter	Consent Limit	Actual	% Variation with prescribed standard	pH	5.5-9	6.52	-Nil-	Total Suspended Solids (mg/l)	30	18.08	-Nil-	BOD (3 days at 27°C) (mg/l)	20	12.92	-Nil-	Fecal Coliform (MPN/100ml)	1000	87	-Nil-	COD	-	41	-Nil-	Total Dissolved Solids	-	644	-Nil-
Parameter	Consent Limit	Actual	% Variation with prescribed standard																												
pH	5.5-9	6.52	-Nil-																												
Total Suspended Solids (mg/l)	30	18.08	-Nil-																												
BOD (3 days at 27°C) (mg/l)	20	12.92	-Nil-																												
Fecal Coliform (MPN/100ml)	1000	87	-Nil-																												
COD	-	41	-Nil-																												
Total Dissolved Solids	-	644	-Nil-																												
All the parameters are well within the prescribed standards.																															
b) Air	<p>DG sets are provided as standby power sources and are used during power failure only. The Height of DG stacks as per CPCB/TNPCB Standards. All the DG Sets are retrofitted to reduce the Particulate Matter emission level. Efficiency of the retrofitting equipment is observed above 90% against the TNPCB requirement of &gt;70%.</p> <p>All the monitored parameters are well within the prescribed standards.</p> <p>DG stack emission report is enclosed as <b>Annexure 1</b>.</p>																														

**PART-D**

**HAZARDOUS WASTES**

(As specified under Hazardous Waste Management and Handling Rules 2016)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous Financial Year (2022-23)	During the current Financial Year (2023-24)
(a) From Process	Nil	(5.1) Used or Spent Oil – 2.411MT
(b) From Pollution control facilities	NA	NA

**PART-E**

**SOLID WASTES**

TOTAL QUANTITY GENERATED			
Solid Waste		During the previous Financial Year (2022-23)	During the current Financial Year (2023-24)
a)	From process	NIL	NIL
b)	From pollution control facilities- STP	106.8 kgs	107 Kgs
c)	1. Quantity recycled or reutilized within the Unit		
	a) STP Sludge	106.8 kgs	107 Kgs
	2. Sold	NIL	NIL
	3. Disposed	NIL	NIL

## **PART-F**

Please specify the characterization (In terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

S.No.	Name of the Hazardous waste	Waste type	Waste disposal	Physical status
1	Sludge and filters contaminated with oil	Incinerable	Authorised HW recyclers	Solid
2	Wastes or residues containing oil	Recyclable	Authorised HW recyclers	Semi Solid
3	Empty barrels/containers /liners contaminated with hazardous chemicals /wastes	Recyclable	Authorised HW recyclers	Solid
4	Cargo residue, washing water and sludge containing oil	Recyclable	Authorised HW recyclers	oily
5	Used or spent oil	Recyclable	Authorised HW recyclers	Oily

## **PART-G**

**Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production**

- **"Zero Waste to Landfill" Initiative** – No waste is being sent to landfill or incineration facility. AECTPL is having Integrated Waste Management System (IWMS) to proper segregate & recover the materials and are handled as per 5R (Reduce, Reuse, Recycle, Recover and Reprocess) principle.
- AECTPL has awarded with Zero Waste to Landfill Management System (ZWTL MS 2020) from TÜV Rheinland India Pvt. Ltd (**Annexure – 2**).
- Hazardous wastes include Used oil, Filters contaminated with Oil and Empty barrels / containers contaminated with hazardous wastes. All the hazardous wastes are collected and stored properly in Integrated Waste Management Shed & are being disposed to TNPCB authorized /registered recyclers in line with Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 (As amended).
- The used batteries and E –wastes are also stored in Integrated Waste Management Shed and disposed off through approved vendor in line to E-Waste Management Rules 2016 (as amended).
- Hazardous waste Annual returns in Form 4 was submitted in line with the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016.

- E-waste returns in Form 3 was submitted in line with the E-waste Management Rules, 2016.
- 100% utilization of STP sludge for greenbelt maintenance as manure.
- AECTPL certified as "Single Use Plastic (SUP) Free" site from CII-ITC Centre of Excellence for Sustainable Development.
- Adani Ennore Container Terminal Private Limited has electrified cranes only and hence the diesel consumption by the cranes is eliminated completely.
- All the DG Sets are retrofitted to reduce the Particulate Matter emission level. Efficiency of the retrofitting equipment is observed above 90% against the TNPCB requirement of >70%.
- All the domestic wastewaters being generated at port is treated at existing sewage treatment plant and the treated water is being reused within port premises for gardening/horticulture purpose.
- Sewage Treatment Plant (STP) is in continuous operation and the treated effluent water quality is meeting the TNPCB norms. The total cost spent on STP operation during the year 2023-24 is Rs. 5.07 Lakhs.
- Regular Environmental monitoring is being carried out through NABL accredited laboratory. All the monitored environmental parameters are well within the prescribed norms & the details of monitored data is being submitted regularly to TNPCB, CPCB, MoEF&CC and other concerned authorities.
- Unit is continuously developing and maintaining Greenbelt within the port premises.
- Implemented Integrated Waste Management System (IWMS) for managing all types of wastes in line with 5R (Reduce, Reuse, Recycle, Recover and Reprocess) principle.

#### **PART-H**

**Additional measures/investment proposal for Environmental protection including abatement of pollution, prevention of pollution.**

<b><u>Regular Expenditure (Cost in INR lakhs/year)</u></b>		
<b>S. No.</b>	<b>Description</b>	<b>Cost</b>
1	Environmental monitoring & Environment Studies	5.83
2	Green belt & Horticulture development	5.82
3	STP operation and maintenance cost	5.07
4	Operation & Maintenance of Integrated Waste Management System	3.65
5	Housekeeping	8.44

## **PART-I**

### **ANY OTHER PARTICULARS IN RESPECT TO ENVIRONMENT**

- Handling of all types of wastes in line with 5R (Reduce, Reuse, Recycle, Recover and Reprocess) Principle.
- Paperless Operation is in place (Except for Statutory requirements) using application tools and Software – Terminal Info Gateway (TIG).
- Energy Conservation Committee to measure the amount of energy consumed and take actions to reduce the energy consumed through port operations
- Water Warriors committee to identify and reduce the water consumption. The committee would propose innovative water solutions.
- Integrated Management System (ISO 9001:2015, 14001:2015, 45001:2018 and 50001:2018) certified Port.
- Obtained "5S" Certification at MIDPL
- AECTPL is bestowed with the top honors and the details of accolades received during the year 2023-24 are mentioned here under (photos attached at Annexure-3);
  - EKDKN's "Platinum Award" under Environment Improvement category.
- **Community Development:**

Kattupalli Port has been propagating the community development through a broad based Corporate Social Responsibility (CSR) program in the project area through Adani Foundation since 2018 to ensure inclusive growth and catering to the developmental needs of the community at the grassroots level. The project area encompasses 11 panchayats covering about 46 villages within 10 Km radius of the Kattupalli Port. The key interventions introduced in the project area are as under:

- Education
- Community Health
- community Infrastructure facility
- Sustainable Livelihood development
- Tree Plantation & Bio-Diversity development program
- Special Focus Groups
- COVID / Cyclone relief measures

Significant highlights during the year 2023-24 are as follows.

- **Education:** A total of 642 students benefitted through 21 AEEC center this (March) month. Encouraging their studies and concentrating slow learners to develop their fundamental core and supporting their academic subjects.
  - 146 students from AEEC program have written 10th Std Board Exams.

- Supported the government school students on the occasion of Republic Day celebration-On January 26, Republic Day, we extend our support to schools in Ramanathapuram and Lighthouse Kuppam to celebrate this significant national occasion. Through various activities such as flag hoisting ceremonies, cultural performances, and educational programs, we aim to instill a sense of patriotism and civic responsibility among students. Additionally, we provide resources and assistance to ensure the smooth organization of these events, emphasizing the importance of commemorating India's democratic heritage and unity in diversity. By actively participating in Republic Day celebrations, we contribute to fostering a strong sense of national identity and pride among students in these communities.
- Through the Udaan project 2500 students visited the port and got exposure to port related work and its functions.
- **Health:** Through the Mobile Health care program, we could be able to provide medical health care for the rural communities especially the elders in the community. From Oct 23 to March 24, we reached 11348 persons.70% of beneficiaries are from the coastal communities.
- **Suposhan:** Through Suposhan program we have provided our support to 3200 persons: Pregnant women, Lactating Mothers, Adolescent Girls & Children.
  - We have provided a Dengue awareness program in Thiruvellaivoyal government Higher Secondary School where 420 students benefited.
  - We have got an award as a Change Maker in health care in providing medical support for the elderly population.

#### **Sustainable Livelihood Development:**

- 100 farmers successfully completed the 1st year of organic certification process and received 1st year of organic scope certification. The marketing plan also aligned with the farmers.
- In the presence of district administration, Agriculture department officials and MLA the farmers received their organic scope certification.
- 18 women were supported to establish 6 group business units in providing livelihood support for the rural women.
- Established individual livelihood units for 4 persons with disabilities and 2 widows and destitute.
- 20 pull carts provided to persons with disabilities, widows and destitute in enhancing their livelihood to meet their daily needs.
- 120 women were provided skill-based training from our Adani Skill Development Program out of which 80 got trained in tailoring and 40 of them got trained in Basic computer and GST.

- Through these veterinary camps we could be able to reach 2078 cattle. In these camps we addressed diseases like infection diseases, dysentery, and other seasonal diseases. The cattle owners are happy and thanked Adani Foundation for helping their cattle during the difficult situations since many a times they lost many cattle, they could not be able to reach the hospital due to transportation and not able to afford to avail the services.
- **Community Infrastructure Development:** We desilted boat parking areas for 14 fishing communities, created boat parking area for one fishing community and created a new canal for Iruvals community which will help them for their livelihood. Through this program 5827 families benefited.
  - Started to build a community Hall for fishing community in Sathankuppam. The building will be handed over to the community in May 2024. 520 Families will benefit directly through this project.
  - Drinking Water support: 1000 LPH with ATM based RO plant established for Thiruvellaivoyal and Kattuppall Kuppam- through which project 620 families.
  - Three 100 LPH RO plant established for three government schools since the students could not able to get quality drinking water. The students were happy about our support.

Date:

(Signature of a person carrying out an industry operation or process)

Name : **Madhanmohan T**

Designation: **Chief Operating Officer**

Address : Adani Ennore Container Terminal Pvt Ltd  
C/O Kamarajar Port Limited  
Vallur post, Ennore  
Thiruvallur District- 600 120.



**KAMARAJAR PORT LIMITED**



**Compliance Report**

**On**

**Ministry's guidelines for**

**“CONSTRUCTION OF GENERAL CARGO BERTH AT ENNORE  
PORT CARGO TERMINAL PROJECT”**

**Point wise compliance report on Ministry's guidelines for the CRZ and Environmental clearance for the construction of General Cargo Berth at Ennore port cargo terminal project.**

**Ref: MoEF Letter No. 11-21/2009-IA-III dated 23.7.2009**

**Back ground information**

MoEF had accorded environmental clearance vide letter No. 11-21/2009-IA-III dated 23<sup>rd</sup> July, 2009 for the development of a general cargo berth. The length of the berth is 250m length and 35m width to handle about 2 lakh cars per year and project cargoes & finished cargo of 0.5 million tons per year.

**Status of the project:**

A General Cargo Berth with Car parking area was developed for the export of automobiles and handling project cargo, etc. The terminal is under operational.

<b>S.No.</b>	<b>Specific Conditions</b>	<b>Compliance Status</b>
(i)	As the Ennore expressway is very busy. It is suggested to examine the details of traffic analysis and incorporate necessary improvement study the impact of additional traffic due to the proposed development	<b>Complied with.</b>  The copy of report on traffic analysis carried out by M/s. Wilber Smith Association Pvt. Ltd., was sent to MoEF vide our letter dated 17.2.2010.
(ii)	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	<b>Complied.</b>  No construction works other than those permitted in the Coastal Regulation Zone Notification are carried out in Coastal Regulation Zone area.
(iii)	Oil spills if any shall be properly collected and disposed as per the Rules.	<b>Noted for compliance.</b>
(iv)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	<b>Complied.</b>  Port is having Environmental Cell under HSE-Division of Marine Services Department, headed by General Manager (MS). The compliance of Environmental Management Plan of the Port is monitoring by Environmental Cell of HSE division.  Port is monitoring the environment. Port has engaged M/s. Nitya Laboratories

		(MoEF & CC/ NABL certified) for sampling and testing of various environmental parameters.
(v)	The project proponent shall take up mangrove plantation/green belt in the project area, wherever possible. Adequate budget shall be provided in the Environment Management Plan for such mangrove development.	<p>At present, port is having a green belt of 636.14 Acres, including a green belt (planted) of 210.74 acres, green cover natural 349.26 acres and mangroves in an area of 76.14 acres.</p> <p>As per approved Biodiversity Management Plan of Port, it is planned to develop the green belt of additional 68.66Acres inside the custom bound area and 621.91 Acres outside the custom bound area. Upon implementation of the plan, the total green belt area of the port will be 690.77Acres.</p>
(vi)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	<p>The details of expenditure incurred towards Environmental management by KPL during the compliance period is Rs.50,67,700/- (Excl.GST), furnished herewith as below:</p> <ol style="list-style-type: none"> <li>1. Environmental Monitoring = Rs. 6,97,900/- (Excl. GST).</li> <li>2. Solid Waste Management = Rs. 28,91,800/- (Excl. GST).</li> <li>3. Greenbelt plantation &amp; Maintenance = Rs. 9,30,000/- (Excl. GST).</li> <li>4. O&amp;M Cost for STPs = Rs. 5,40,000/- (Excl. GST).</li> </ol>

**General Conditions:**

S No.	General Conditions	Compliance Status
(i)	The construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and Central rules and	<p><b>Complied with.</b></p> <p>All constructions and plans are approved by port itself as port is a regulatory authority by itself.</p>

	regulations including the provisions of Coastal Regulation Zone Notification dated 19.02.1991 and the approved Coastal Zone Management Plan of Tamil Nadu.	
(ii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<b>Complied with.</b>  Local labors were engaged during the construction and the labour camps were located outside the CRZ area.
(iii)	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	<b>Complied with.</b>  Digging activities were carried out during the construction of berth. Marine water quality was monitored to notice any degradation of water quality.
(iv)	<i>Borrow sites for each quarry sites for road construction material and dump sites must be identified keeping in view the following:</i>	
	a. No excavation or dumping on private property is carried out without written consent of the owner.	<b>Complied with.</b>  No excavation was carried out in the project area or any material dumped in any private property. Concrete structure on pile foundation was carried out.
	b. No excavation or dumping shall be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.	No excavation or dumping was carried out on wetlands or any ecologically sensitive areas during the development of the project.
	c. Excavation work shall be done in close consultation with the Soil Conservation and Watershed Development Agencies working in the area, and	<b>Complied with.</b>  No excavation work was carried in the project area.
	d. Construction spoils including bituminous material and other hazardous materials must not be	<b>Complied with.</b>  No construction spoils or any

	allowed to contaminate water courses and the dump sites for such materials must be secured so that they shall not leach into the ground water.	other hazardous materials such as bituminous were generated during the construction process.
(v)	The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.	<b>Complied with.</b>  Construction material does not involve any quarry materials other than blue granite. Only iron & metal steel are used for RCC.
(vi)	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	<b>Complied with.</b>  Adequate measures like covering the material etc. were undertaken during the transportation of construction material.
(vii)	Full support shall be extended to the officers of this Ministry/ Regional Office at Bangalore by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	<b>Being complied.</b>
(viii)	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	<b>Noted.</b>
(ix)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry	<b>Noted.</b>
(x)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	<b>Noted.</b>
(xi)	The project proponents shall inform the Regional Office as well as the Ministry, the	<b>Complied with.</b>

	date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	KPL has informed MoEF&CC and RO of MoEF&CC vide its letter No. EPL/MS/Env/GCB/1/08, dated 07.12.2009.
(xii)	Tamil Nadu State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/ Tehsildar's Office for 30 days.	<b>Complied with.</b>
7	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	<p>KPL is enforcing the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981 and the Environment (Protection) Act, 1986.</p> <p>With regard to the Public Liability Insurance, Port has obtained Public Liability Insurance through Oriental Insurance Company Ltd., and put in place. The same is being renewed from time to time.</p>
8	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	<p><b>Complied with.</b></p> <p>The terminal is exclusively for export/import of brand new assembled automobiles; hence the said clearances are not applicable to this terminal.</p>
9	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Tamil Nadu State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within 10 days	<p><b>Complied with.</b></p> <p>The receipt of the environment and CRZ clearance was advertised in two local news papers on 6.8.2009. The copies of the advertisements were forwarded to MoEF, RO, Bangalore vide our letter No.EPL/MS/Env/GCB/01/2008 dated 25.8.2009.</p>

	from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.	1. 'The Dinamani' dated: 06.08.2009 2. 'The New Indian Express' Dated: 06.08.2009.
10	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	<b>Agreed to Comply.</b>
11	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	There is no appeal against this EC was made with National Environment Appellate.
12	A copy of the Clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<b>Complied with.</b>  No public hearing was conducted as the same was not recommended by MoEF & CC in the ToR. No suggestions / representations were received while processing the proposal.  The clearance letter was put on the KPL website.
13	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<b>Complied with.</b>  Only brand new cars (Green Cargo) are handled in this terminal.  The status of compliance of the stipulated EC conditions and the results of the monitored data are being sent to Regional office of MoEF.  The result of the monitoring data carried out by the Port is uploaded in the company's website.
14	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including	<b>Complied with.</b>  The reports are regularly

	results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	submitted to Regional Office of MoEF & CC. The same is being uploaded in MoEF & CC and KPL websites as well.
15	The environmental statement for each financial year ending 31st March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	<b>Complied with.</b>  The environmental statement (Form-V) is enclosed herewith as <b>Annexure-I.</b>

**Point wise compliance report on the conditions issued by Tamil Nadu State Coastal Zone Management vide Letter No. 151/EC3/2009-1 dated 24.02.2009**

1	There should not be any extraction of ground water in Coastal Regulation Zone	<b>Complied with.</b>  No ground water is extracted in the CRZ area. Open dug wells are provided beyond the CRZ area in the port exclusively for watering of plants.
2	The project activity should not affect the coastal ecosystem including marine flora and fauna	<b>Complied with.</b>  Only automobiles (green cargo) are handled in the project. No sewage or wastes are dumped in the port waters. KPL is monitoring marine water quality inside the port. Monitoring reports are regularly submitted to R.O of MoEF&CC. Port waters conform to SW Class IV standards.
3	The composition of the dredged materials should be duly analyzed and examined to find out the availability of any toxic contents.	<ul style="list-style-type: none"> <li>Port has carried out a study through Institute of Ocean Management, Anna University, Chennai entitled “Assessment of Water, Sediment &amp; Biota in Ennore Port” during January 2009.</li> </ul>

		<ul style="list-style-type: none"> <li>• The study revealed that the toxic heavy metals are found to be well within the safety limits and as such do not pose any problem to the marine environment.</li> <li>• Sediment quality is also continuously monitored during dredging operations.</li> <li>• Port is also monitoring monthly marine water quality for various physio-chemical parameters including heavy metals.</li> </ul>
4	Based on the analysis, a suitable methodology for the disposal of dredging material has to be evolved out.	National Institute of Ocean Technology (NIOT), Chennai has carried out EIA and Risk assessment for the second phase expansion proposals, which is inclusive of Modelling studies and identified a marine disposal area (6 KM x 6 KM area) for disposal of dredged material. The study has identified a location for the safe disposal of dredged material with a holding capacity of 18.0 million cubic meters.
5	No blasting activities in Coastal Regulation Zone is permissible	<p><b>Complied with.</b></p> <p>No blasting activity was carried out during the construction phase. Berth constructions are made up of RCC super structure on pile foundation.</p>
6	The proponent shall not undertake any activity, which is violate of the provisions of Coastal Regulation Zone Notification 1991 and the subsequent amendments.	<p><b>Noted and agreed to comply.</b></p> <p>No activity in violation of the provisions of CRZ Notification will be carried out.</p>
7	The coastal Regulation Zone clearance will be revoked if any of the condition stipulated is not complied with	<b>Noted and agreed to comply.</b>



**KAMARAJAR PORT LIMITED - GENERAL CARGO BERTH (GCB)  
ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST  
MARCH-2025**

**PART – A**

<b>S. No</b>	<b>Description</b>	<b>Remarks</b>
1.	Name and address	Kamarajar Port Limited, Vallur Post, Near NCTPS, Chennai-120.
2.	Type of Cargo handled	Auto mobiles (green cargo) & Project cargo
3.	Industry category Primary (STC Code) Secondary ( SIC Code)	Major port under the administrative control of Ministry of shipping, GOI.
4.	Cargo handling capacity as per CTO	2Lakh cars/year and project/finished cargo of 0.5 MTPA. All these cargo are green cargo.
5.	Date of start of commercial operation	28.01.2011

**PART – B**

**(1) Water and Raw Material Consumption**

**Water consumption m3/d:** 2KL per Day for this terminal.

**Process/ sprinkling:** Nil. Only brand new and assembled automobiles (green cargo) are handled (export/import) in this terminal.

**Cooling:** Not applicable.

**Domestic:** 2KLD

**Any other:** Nil

<b>Name of Cargo handled</b>	<b>Process water consumption per unit of product output.(per Annum)</b>	
	<b>During the previous financial year 2023-24</b>	<b>During the Current financial year 2024-25</b>
Automobiles	Only brand new assembled automobiles (green cargo) are handled in this terminal. No process takes place inside the Port premises, hence there is water is consumed for the industrial purpose.  The domestic water consumption is about 2KLD	Only brand new assembled automobiles (green cargo) are handled in this terminal. No process takes place inside the Port premises, hence there is water is consumed for the industrial purpose.  The domestic water consumption is about 3KLD

**(2) Raw Material Consumption (if applicable)**

Name of raw materials	Name of Products	Consumption of raw material per Unit of output	
		During the financial year 2023-24	During the financial Year 2024-25
Auto mobiles & Project cargo	Auto mobiles & Project cargo	1,51,225	1,76,134

\*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

**PART - C****Pollution discharged to environment/unit of output  
(Parameter as specified in the consent issued)**

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
<b>Water</b>	Not Applicable. Only brand new assembled automobiles (green cargo) are handled (export/import) in this terminal. No wastes are discharged into the marine/surface water bodies. Port is monitoring the surface and marine water quality through M/s. Nitya Laboratories (MoEF & CC recognised and NABL accredited laboratory). The results of analysis are found to be well within the prescribed standards by the CPCB. The reports are submitted to Tamilnadu Pollution Control Board.		
<b>Air</b>	Not Applicable. Only brand new assembled automobiles (green cargo) are handled (export/import) in this terminal. No stacks are there in port.  KPL is monitoring various environmental parameters through M/s. Nitya Laboratory (MoEF & CC/ NABL certified laboatory). The ambient air quality is monitored at eight different locations inside the port area. The results of analysis are found to be well within the prescribed standards by the CPCB. The monthly monitoring reports are submitted to Tamilnadu Pollution Control Board.		

**PART – D**  
**Hazardous Wastes**

(As specified under Hazardous and other wastes Transboundary Rules, 2016)

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous Financial Year 2023-24	During the Financial year 2024-25
<b>Source of Hazardous waste generation</b>	Only brand new assembled automobiles (Green Cargo) are handled (export/import) in this terminal. No hazardous wastes are generated.	
<b>Disposal procedure</b>	Not Applicable.	
<b>Quantity disposed</b>	Not Applicable.	
<b>Any other details</b>	Port has formulated 'Waste Oil, Sewage & Other Wastes Disposal Policy, 2019'. The Policy is uploaded in the KPL website for the easy access of the port users. The ship generated oily wastes are being disposed off through CPCB/SPCB approved recyclers. The list of empanelled recyclers is made available in 'swachh sagar' portal of Director General of Shipping and KPL website.	

**PART – E**  
**Solid Wastes**

Solid Wastes	Total Quantity (M <sup>3</sup> )	
	During the Financial Year 2023-24	During the Financial Year 2024-25
<b>Quantity collection</b>	The total collected quantity from the terminal and ships' calling at the terminal is about 155.25 Cu.M.	The collected total quantity from the terminal and ships calling at the terminal is about port and ships is about 160.12 Cu.M
<b>a) Source of solid waste generation</b>	Solid waste generated in the port is of domestic wastes likes, paper, packing material, water bottles, etc. Ship generated wastes include paper, plastic cans, metal drums, e-wastes, food waste, ropes, wooden packing material, etc.	
<b>Disposal procedure</b>	As per MARPOL regulations, every port has to provide reception facility for the disposal of ship generated wastes. Accordingly port has engaged a contractor for the collection of wastes from the ships. The collected wastes are segregated into different species and sent to various authorized recyclers for further beneficial use.	
<b>Quantity disposed</b>	The disposed quantity from port and ships is 155.25 Cu.M.	The disposed quantity from port and ships 160.12 Cu.M
<b>Any other details</b>	NIL	

## **PART – F**

**Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

Port has Waste Oil, sewage & Other Wastes Reception Facilities Policy, 2019. The generated oily wastes from the ships are disposed off through CPCB/SPCB approved recyclers.

No hazardous wastes are generated. Solid waste generated in the terminal is of domestic wastes like paper, packing material, water bottles, etc. and ship generated wastes including paper, plastic cans, metal drums, e-wastes, food waste, ropes, wooden packing material, etc.,

As per MARPOL regulations, reception facility port has facilitated for the collection and disposal of ship generated wastes. The collected waste are segregated into different categories and sent to various recyclers for further beneficial use.

## **PART – G**

**Impact of pollution abatement measures taken towards conservation of natural resources and the cost of production**

Only brand new assembled automobiles (Green Cargo) are handled (export/import) in this terminal. Therefore, there is no pollution generated from the operations in this terminal.

Moreover, Port has developed a green belt of 636.14 acres inside and outside the custom bound areas which acts as barrier for dust emissions and pollutants.

## **PART – H**

**Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution**

Port's Environmental Management Plan (EMP) is aimed at mitigating the possible adverse impacts of projects and for ensuring to maintenance of the existing environmental quality. Port has facilitated the ships with reception facilities as per MARPOL regulations for ships for disposal of wastes under Annexure- I (oil) and Annexure- V (Garbage). Port generated domestic wastes are disposed off at approved dumping yards. The domestic sewage wastes are disposed through septic tank & soak pits.

Workers are provided with ear protection devices, masks and helmets. Emergency/Crisis Response Plan that covers situations such as cyclones, marine accidents, bomb threats, fire, explosion and accidents is in place. Port is having oil spill contingency plan prepared in line with National Oil Spill Disaster Contingency plan (NOS-DCP).

## **PART – I**

**Any other particulars for improving the quality of the environment.**

Nil

233  
06.03.25



**TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

DMHSE) / En (HSE)  
R/R  
04/03/2025  
CHITSE



From

D. Balasubramanian, M.Sc., B.Ed.,  
Deputy Chief Scientific Officer,  
District Environmental Laboratory, Manali  
Tamil Nadu Pollution Control Board,  
950/1, Poonamallee High Road,  
Arumbakkam,  
Chennai-106

To

M/s. Kamarajar Port Ltd.,  
(Cargo)  
Vallur Post,  
Chennai - 600 120;

CM (HSE)  
En (HSE)

Lr.No TNPC Bd/DEL-MNL/Air Survey/F. No.44/2024-25 Dt:04.02.2025

Sir,

**Sub:** Furnishing of Report of Analysis of Ambient Air Quality /  
Stack Monitoring / Ambient Noise Level Survey Reg.

- Ref:**
1. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.44/2024-25, dt:23.05.2024
  2. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.44/2024-25, dt:10.10.2024
  3. Your Lr.No.KPL/MS/HSE/Env/AAQ-Survey/2024-25 dt:02.07.2024
  4. Your Lr.No.KPL/MS/HSE/TNPCB/AAQ-Survey/2024-25 dt:03.12.2024
  5. Cash Receipt No.266 Rs.52,350/-
  6. Cash Receipt No.413 Rs.2900/-

----

I am herewith sending the Report of Analysis of Ambient Air Quality / Stack Monitoring / Ambient Noise Level Survey conducted in the vicinity of your industry M/s. Kamarajar Port Ltd., (Cargo) Vallur Post, Chennai - 120 on 28.01.2025 with an invoice for a sum of Rs. 55,250/- (Rupees Fifty Five Thousand Two Hundred and Fifty only) towards the above survey / analytical charges, and the same has been adjusted vide reference (3) cited.

Kindly acknowledge the receipt of the above without fail.

Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali

Encl.: As above.

Copy submitted to:

1. The Joint Chief Environmental Engineer, TNPC Bd, Chennai for favour of kind information please.
2. The District Environmental Engineer, TNPC Bd, Gummidipoondi for favour of kind information please.
3. Copy to file.



# TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

## AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 66 /AAQS/2024-25

Date: 04.02.2025

1. Name of the Industry : M/s. Kamarajar Port Ltd., (Cargo)  
 2. Address of the Industry : Vallur Post, Chennai - 120.  
 3. Date of Survey : 28.01.2025  
 4. Duration of Survey : 8 Hours / 24 hours  
 5. Category : Red / Orange / Green - Large / Medium / Small  
 6. Land use classification : Industrial / Commercial / Residential / Sensitive

### Meteorological Conditions

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	24	28		59	67
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	SW- NE		Mean Wind Speed (km/hr)	8.0	

### Ambient Air Quality Survey Results

Sl. No.	Location	Direction	Distance (m)	Height From GL (m)	Pollutants Concentration (microgram / m <sup>3</sup> )			
					PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>2</sub>
1	On top of Platform near Car Parking	N	500	2	--	85	16	26
2	On top of Platform near Car Yard	SE	900	2	24	78	14	25
3	On top of Platform near Chettinad SS.	S	900	2	--	69	12	22
4	On top of Platform near West Gate	SW	600	2	19	65	11	20
5	On top of Platform near Fire Station	NW	500	2	--	74	13	21

Note: \* With respect to major emission sources. The analytical results are restricted to the sampling period of 8 hrs/24hrs

  
 Deputy Chief Scientific Officer  
 District Environmental Laboratory  
 Tamil Nadu Pollution Control Board  
 Manali

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO <sub>2</sub>	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO <sub>2</sub>	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012



# **TAMILNADU POLLUTION CONTROL BOARD**

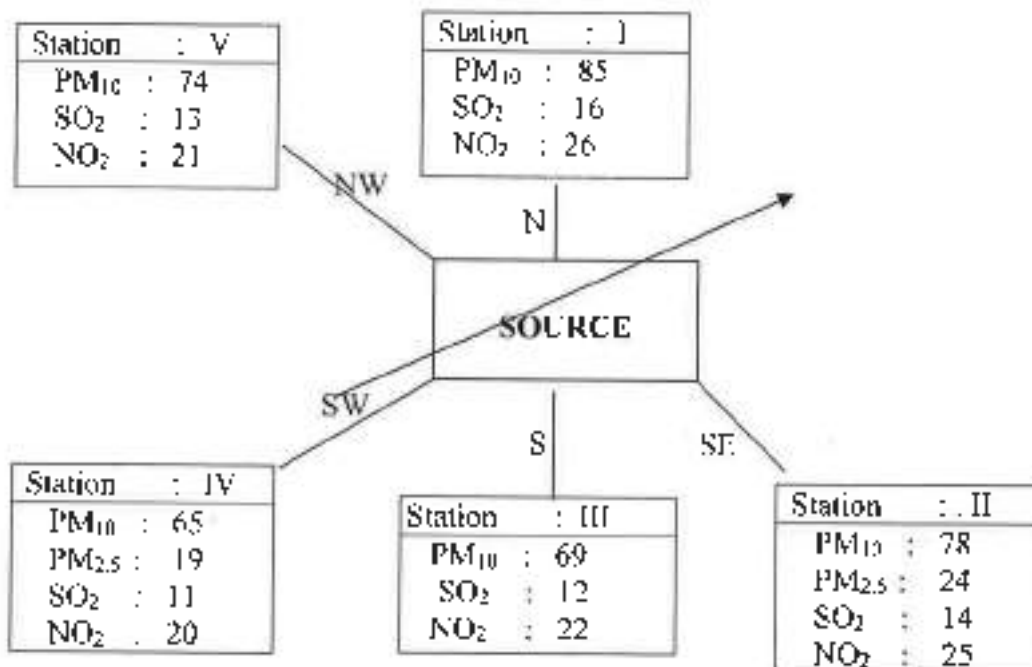
District Environmental Laboratory, Manali

## **AMBIENT AIR QUALITY SURVEY** Schematic Diagram Showing Location of Sampling

Report No. 66 /AAQ/SM/2024-25

Name and Address of the Industry : **M/s. Kamarajar Port Ltd., (Cargo)**  
Vallur Post, Chennai - 120.

Date of Survey : **28.01.2025**



Note: All the values are expressed in  $\mu\text{g}/\text{m}^3$  and restricted to sampling period of 8 hrs/24hrs

Meteorological Conditions:	
Predominant Wind Direction	SW- NE
Wind Speed (Km/hr)	8.0
Weather Condition	Partially Cloudy
Rainfall	Nil

  
**Deputy Chief Scientific Officer**  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



# **TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

## **AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis**

Report No. 66/ NLS/2024-25

Date: 04.02.2025

1.	Name of the Industry	M/s. Kamarajar Port Ltd., (Cargo)	
2.	Address of the Industry	Vallur Post, Chennai - 120.	
3.	Date of Survey	28.01.2025	
Category	RL	Land use Classification	Industrial
Type of Survey	Ambient/Source	Time of Survey	Day
Meteorological conditions		Calm/Windy/Rainy	Windy

### **Logging Parameters**

Instrument Used	CESVA Model SC310	Serial No	T243103
Logging Interval	10 Minutes each point	Measuring Range	50-110 dB(A)
Weighting	"A"	Peak Weighting	"C"
		Time Weighting	FAST
Sound Incidence	RANDOM		Time in hrs
			14.00 - 15.30

### **Report of Noise Level Monitoring**

Sl. No	Location	Duration (min)	Distance (m)	Direction	Sound Level -dB(A)		
					Leq	Min	Max
1	Near Car Parking	10	500	N	54.6	42.1	77.5
2	Near Car Yard	10	900	SE	52.4	47.0	75.5
3	Near Cheninad SS	10	900	S	58.9	54.0	69.5
4	Near West Gate	10	600	SW	50.4	45.9	65.5
5	Near Fire Station	10	500	NW	54.2	49.3	74.7

Note: Leq value is the average energy for the measured period.

  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



# **TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

## **INFERENCE REPORT ON A.A.Q.S./ S.M.**

1. Name of Industry : **M/s. Kamarajar Port Ltd., (Cargo)**  
Valhur Post, Chennai – 120.
2. Pollution Category : Red Large
3. Date of A.A.Q. Survey : **28.01.2025**
4. Predominant Wind Direction : SW-NE
5. Weather condition : Partially Cloudy

### **STATUS OF POLLUTANTS LEVEL**

#### **1. AMBIENT AIR QUALITY:-**

1. Total No. of A.A.Q. stations monitored : 5
2. No. of A.A.Q. stations in which Pollutants Level exceeded the Boards standards : Nil

#### **Maximum and Minimum values of Pollutants Level observed:**

Sl. No	POLLUTANT	Values in microgram/m <sup>3</sup>		BOARD's STANDARD (As per consent order)
		Maximum	Minimum	
1.	PM <sub>10</sub>	85	65	100
2.	PM <sub>2.5</sub>	24	19	60
	<b><u>GASEOUS POLLUTANTS:-</u></b>			
	(i) SO <sub>2</sub>	16	11	80
	(ii) NO <sub>2</sub>	26	20	80

#### **II. STACK MONITORING:-**

1. Total No. of Stacks Monitored : --
2. No. of Stacks in which Pollutants level Exceeded the Boards standards : Nil

*[Signature]*  
08/2/25

**Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali**



# **TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

## **BILL**

**Report No. 66/AAQ/SM/2024-25**

Bill No	66/2024-25
Date	04.02.2025

To

**M/s. Kamarajar Port Ltd., (Cargo)**

Vallur Post, Chennai - 120.

- Ref: 1. B.PMs.No.6 Dt.31.03.2009.  
2. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.44/2024-25, dt:23.05.2024  
3. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.44/2024-25, dt:10.10.2024  
4. Your Lr.No.KPL/MS/HSE/Env/AAQ-Survey/2024-25 dt:02.07.2024  
5. Your Lr.No.KPL/MS/HSE/TNPCB/AAQ-Survey/2024-25 dt:03.12.2024  
6. Cash Receipt No.266 Rs.52,350/-  
7. Cash Receipt No.413 Rs.2900/-

\*\*\*\*\*

Sl. No.	Description	Rate (Rs.)	No. of Stations/ Stacks	Amount (Rs.)
1.	<b>SAMPLING CHARGES:</b> Ambient Air Quality monitoring PM <sub>10</sub> Source Emission Monitoring (PM, SO <sub>2</sub> , NO <sub>x</sub> etc.,) Ambient Air Quality monitoring PM <sub>2.5</sub>	3500 0 3500	5 0 2	17,500 0 7,000
2.	<b>ANALYTICAL CHARGES:</b> Ambient Air Samples PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> (each Rs. 1450/-) Ambient Air Samples PM <sub>2.5</sub>	3690 1900	5 2	18,450 3,800
3.	<b>AMBIENT NOISE MONITORING CHARGES:</b> For first 5 stations	1400	5	7,000
<b>Transportation Charges</b>				<b>1500</b>
<b>Total</b>				<b>55,250</b>
Vide O/o. DFE/CHN Our CR.No.266 & 413 dated :02.07.2024 & 03.12.2024				<b>55,250</b>
<b>Balance</b>				<b>Nil</b>

*[Signature]*  
**Deputy Chief Scientific Officer**  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: October 2024**

**Prepared By**



### **NITYA LABORATORIES**

**Address:** Plot No.118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabgarh,  
Faridabad, Delhi NCR, India

**Tel.:** +91-129-2241021

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

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

**Website:** www.nityalab.com

## 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 12<sup>th</sup> 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 2024 is presented in this report.

**2.0 Scope and Methodology:**

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

**2.1 Ambient Air Quality**

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



### AMBIENT AIR QUALITY MONITORING:

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

**Table: Detail of Ambient Air Quality Monitoring Locations**

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

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i, e, at 8 Locations. A Total of 72 Samples each of  $PM_{10}$  &  $PM_{2.5}$ , Samples of  $SO_2$ ,  $NO_2$ , Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.



## Test Reports of Ambient Air Quality Monitoring

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

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

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

Test Report Date: 06/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040110	19.20	42.90	12.60	18.40	ND
2	07/10/2024	202410070110	16.50	46.40	11.80	20.50	ND
3	10/10/2024	202410100110	14.60	45.40	10.50	21.60	ND
4	14/10/2024	202410140110	16.90	47.10	13.30	18.20	ND
5	17/10/2024	202410170110	17.50	43.60	14.50	23.40	ND
6	21/10/2024	202410210110	18.30	47.10	10.90	24.40	ND
7	25/10/2024	202410250110	14.40	48.40	11.10	21.20	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:

NAAQM: National Ambient Air Quality Standards, Schedule-VII [Rule 3 (2B)] [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)

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#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040110	ND
2	07/10/2024	202410070110	ND
3	10/10/2024	202410100110	ND
4	14/10/2024	202410140110	ND
5	17/10/2024	202410170110	ND
6	21/10/2024	202410210110	ND
7	25/10/2024	202410250110	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)

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

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

Test Report Date: 08/10/2024

#### 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				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040111	17.20	28.50	11.50	20.50	ND
2	07/10/2024	202410070111	18.60	30.40	12.60	18.40	ND
3	10/10/2024	202410100111	21.20	32.60	13.40	17.20	ND
4	14/10/2024	202410140111	20.90	33.90	11.80	19.30	ND
5	17/10/2024	202410170111	17.20	34.10	14.40	20.10	ND
6	21/10/2024	202410210111	18.50	38.10	13.10	18.90	ND
7	25/10/2024	202410250111	19.40	30.30	12.80	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, Schedule-VI, [Rule 3 (38)] [Part-II-sec-35] 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)

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

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

Test Report Date: 08/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040111	ND
2	07/10/2024	202410070111	ND
3	10/10/2024	202410100111	ND
4	14/10/2024	202410140111	ND
5	17/10/2024	202410170111	ND
6	21/10/2024	202410210111	ND
7	25/10/2024	202410250111	ND
Test Method			PID Based Methane Analyser

#### Remark:

NAQS- National Ambient Air Quality Standards, Schedule-VI, (Rule 3 (3B)), (Part-4-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)

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

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

Test Report Date: 08/10/2024

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#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040112	24.20	42.20	14.40	19.50	ND
2	07/10/2024	202410070112	27.60	40.10	16.60	21.60	ND
3	10/10/2024	202410100112	24.30	39.30	17.10	22.20	ND
4	14/10/2024	202410140112	25.60	42.40	15.90	19.40	ND
5	17/10/2024	202410170112	24.10	43.50	13.10	17.60	ND
6	21/10/2024	202410210112	28.20	45.90	16.40	20.50	ND
7	25/10/2024	202410250112	22.80	46.60	17.20	21.70	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:

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

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

Test Report Date: 08/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040112	ND
2	07/10/2024	202410070112	ND
3	10/10/2024	202410100112	ND
4	14/10/2024	202410140112	ND
5	17/10/2024	202410170112	ND
6	21/10/2024	202410210112	ND
7	25/10/2024	202410250112	ND
Test Method			PID Based Methane Analyser

#### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### 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				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/10/2024	202410040113	22.20	44.50	16.60	19.90	ND
2	07/10/2024	202410070113	23.60	47.60	17.20	21.50	ND
3	10/10/2024	202410100113	20.10	46.60	13.40	19.60	ND
4	14/10/2024	202410140113	22.50	48.60	15.10	19.20	ND
5	17/10/2024	202410170113	23.60	49.50	16.60	20.30	ND
6	21/10/2024	202410210113	20.80	43.80	17.30	21.60	ND
7	25/10/2024	202410250113	23.40	46.90	15.40	20.10	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 II-sec-3(i)] 16.11.2009. ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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

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

Test Report Date: 08/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040113	ND
2	07/10/2024	202410070113	ND
3	10/10/2024	202410100113	ND
4	14/10/2024	202410140113	ND
5	17/10/2024	202410170113	ND
6	21/10/2024	202410210113	ND
7	25/10/2024	202410250113	ND
Test Method			PID Based Methane Analyser

#### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/10/2024	202410040114	18.60	29.60	12.60	17.50	ND
2	07/10/2024	202410070114	19.50	30.40	13.40	18.60	ND
3	10/10/2024	202410100114	23.50	31.60	14.40	19.40	ND
4	14/10/2024	202410140114	23.40	33.10	12.60	20.60	ND
5	17/10/2024	202410170114	21.60	29.40	13.90	18.50	ND
6	21/10/2024	202410210114	22.90	30.60	12.10	19.30	ND
7	25/10/2024	202410250114	24.40	33.60	11.80	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:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040114	ND
2	07/10/2024	202410070114	ND
3	10/10/2024	202410100114	ND
4	14/10/2024	202410140114	ND
5	17/10/2024	202410170114	ND
6	21/10/2024	202410210114	ND
7	25/10/2024	202410250114	ND
Test Method			PID Based Methane Analyser

### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	04/10/2024	202410040115	16.80	27.40	10.50	16.80	ND
2	07/10/2024	202410070115	17.50	27.30	11.90	16.10	ND
3	10/10/2024	202410100115	20.60	28.60	12.40	18.40	ND
4	14/10/2024	202410140115	21.10	29.40	10.60	19.30	ND
5	17/10/2024	202410170115	19.30	27.60	11.80	16.60	ND
6	21/10/2024	202410210115	20.40	27.20	10.60	16.90	ND
7	25/10/2024	202410250115	21.30	30.10	10.10	18.30	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:

NAAQMS: 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



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

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

Test Report Date: 08/10/2024

13

#### 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	04/10/2024	202410040115	ND
2	07/10/2024	202410070115	ND
3	10/10/2024	202410100115	ND
4	14/10/2024	202410140115	ND
5	17/10/2024	202410170115	ND
6	21/10/2024	202410210115	ND
7	25/10/2024	202410250115	ND
Test Method			PID Based Methane Analyser

#### Remark:

NAAQ5: National Ambient Air Quality Standards; Schedule-VI, [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



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### 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				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040116	23.10	32.50	14.60	20.60	ND
2	07/10/2024	202410070116	22.50	31.70	18.10	21.40	ND
3	10/10/2024	202410100116	24.60	34.60	18.60	22.60	ND
4	14/10/2024	202410140116	20.60	30.50	17.20	21.80	ND
5	17/10/2024	202410170116	22.40	32.80	16.60	20.60	ND
6	21/10/2024	202410210116	21.80	31.90	19.30	23.60	ND
7	25/10/2024	202410250116	19.70	29.30	17.20	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:

NAAQS: 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.

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

Test Report Date: 08/10/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040116	ND
2	07/10/2024	202410070116	ND
3	10/10/2024	202410100116	ND
4	14/10/2024	202410140116	ND
5	17/10/2024	202410170116	ND
6	21/10/2024	202410210116	ND
7	25/10/2024	202410250116	ND
Test Method			PID Based Methane Analyser

### Remark:

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

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

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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

16

#### Sample Particulars

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

#### Analysis Report

Sr. No.	Date of Sampling	Test Report 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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/10/2024	202410040117	20.60	38.60	18.20	22.60	ND
2	07/10/2024	202410070117	19.30	32.70	21.30	23.70	ND
3	10/10/2024	202410100117	22.50	31.50	19.30	22.10	ND
4	14/10/2024	202410140117	24.60	35.60	16.80	24.60	ND
5	17/10/2024	202410170117	21.70	34.80	15.60	23.70	ND
6	21/10/2024	202410210117	20.60	37.30	17.30	21.80	ND
7	25/10/2024	202410250117	22.70	39.10	18.40	22.20	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.-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit; the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 08/10/2024

### Sample Particulars

Nature of the Sample

Ambient Air Quality Monitoring

Purpose of Monitoring

To Check the Pollution Load

Sampling Location

Fire Station

Method of Sampling

IS 5182 (Part 14)

Monitoring Conducted By

Mr. Shridhar

Sampling Duration (Hrs.)

24 Hrs

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	04/10/2024	202410040117	ND
2	07/10/2024	202410070117	ND
3	10/10/2024	202410100117	ND
4	14/10/2024	202410140117	ND
5	17/10/2024	202410170117	ND
6	21/10/2024	202410210117	ND
7	25/10/2024	202410250117	ND
Test Method			PID Based Methane Analyser

### Remark:

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



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## Test Reports of Wastewater (STP)



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

Test Report No.: 202410230110

Test Report Date: 01/11/2024

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 26/10/2024  
Test Started On : 26/10/2024  
Test Completed On : 31/10/2024  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 23/10/2024  
Monitoring Conducted By : Mr. Shridhar  
Sample Description : W-1: STP O/L of Admin Building  
W-2: STP O/L of Car Parking

### Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	7.52	7.38	5.5 to 9.0	IS 3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	38	44	50	IS 3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	80	70	150	IS 3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	16	14	30	IS 3025 (P-44)
5	Faecal Coliform*	MPN/100 ml	253	754	<1000	IS:1622

(AUTHORISED SIGNATORY)

(RHYTHM BASSON\*)



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## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: November 2024**

**Prepared By**



### **NITYA LABORATORIES**

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**Website:** www.nityalab.com

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**Introduction**

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> 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 November 2024 is presented in this report.

**2.0 Scope and Methodology:**

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

**2.1 Ambient Air Quality**

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.

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### AMBIENT AIR QUALITY MONITORING:

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

**Table: Detail of Ambient Air Quality Monitoring Locations**

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

Ambient Air Quality Monitoring was carried out with a frequency of two samples per week i. e, at 8 Locations. A Total of 72 Samples each of  $PM_{10}$  &  $PM_{2.5}$ . Samples of  $SO_2$ ,  $NO_2$ , Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.



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## Test Reports of Ambient Air Quality Monitoring

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

Test Report Date: 07/12/2024

### 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 $\text{SO}_2$ ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as $\text{NO}_2$ ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as $\text{CO}$ ) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000068F	23.50	54.60	17.40	22.60	ND
2	04/11/2024	TC148142400000085F	27.35	56.40	15.60	23.10	ND
3	07/11/2024	TC148142400000141F	22.64	52.30	15.50	26.40	ND
4	11/11/2024	TC148142400000222F	22.50	56.70	17.50	22.60	ND
5	25/11/2024	TC148142400000447F	23.50	52.50	18.60	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)

#### Remark:

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



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

**Test Report Date:** 07/12/2024

**Sample Particulars**

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

**Analysis Report**

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010110	ND
2	04/11/2024	202411040110	ND
3	07/11/2024	202411070110	ND
4	11/11/2024	202411110110	ND
5	25/11/2024	202411250110	ND
<b>Test Method</b>			<b>PID Based Methane Analyser</b>

**Remark:**

NAAQS: National Ambient Air Quality Standards; Schedule-VII (Part-3 (3B)) (Part-II sec-3 (2)) 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 Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board.

  
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(RAVINDER M. TAL)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000089F	21.36	31.60	12.30	27.30	ND
2	04/11/2024	TC148142400000086F	22.50	32.70	14.50	20.30	ND
3	07/11/2024	TC148142400000142F	25.60	35.50	15.60	21.20	ND
4	11/11/2024	TC148142400000223F	24.90	36.79	14.80	14.60	ND
5	25/11/2024	TC148142400000448F	22.40	38.50	16.50	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)

### Remarks:

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



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Vallur Post, Chennai, India

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010111	ND
2	04/11/2024	202411040111	ND
3	07/11/2024	202411070111	ND
4	11/11/2024	202411110111	ND
5	25/11/2024	202411250111	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, [Part 3 (3B)], [Part II-sec. 35] 16.11.2006, MO-Hd Directed.  
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 MITAL)

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

Test Report Date: 07/12/2024

### Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**  
Purpose of Monitoring : **To Check the Pollution Load**  
Sampling Location : **Admin Building**  
Method of Sampling : **IS 5182 (Part 14)**  
Monitoring Conducted By : **Mr. Shrdhar**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000070F	27.50	45.50	14.70	22.60	ND
2	04/11/2024	TC148142400000087F	30.90	43.30	16.40	24.50	ND
3	07/11/2024	TC148142400000143F	27.60	42.40	12.50	23.60	ND
4	11/11/2024	TC148142400000224F	29.80	49.10	16.30	22.50	ND
5	25/11/2024	TC148142400000449F	29.20	46.60	17.40	19.80	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

#### Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VI, [Rule 3 (35), Part II Sec. 3(2) 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010112	ND
2	04/11/2024	202411040112	ND
3	07/11/2024	202411070112	ND
4	11/11/2024	202411110112	ND
5	25/11/2024	202411250112	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 Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000071F	23.50	46.30	14.40	21.40	ND
2	04/11/2024	TC148142400000088F	26.30	50.60	16.30	22.60	ND
3	07/11/2024	TC148142400000144F	23.40	48.90	15.40	20.20	ND
4	11/11/2024	TC148142400000226F	23.10	51.60	17.60	19.60	ND
5	25/11/2024	TC148142400000450F	24.20	52.80	18.40	22.10	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)) 16.11.2009, ND=Not Detected, DL=Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010113	ND
2	04/11/2024	202411040113	ND
3	07/11/2024	202411110113	ND
4	11/11/2024	202411250113	ND
5	25/11/2024	202406240113	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VI, (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 Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000072F	29.20	32.40	22.40	27.20	ND
2	04/11/2024	TC148142400000086F	33.20	33.80	19.40	22.20	ND
3	07/11/2024	TC148142400000145F	26.60	33.50	22.30	23.60	ND
4	11/11/2024	TC148142400000226F	23.60	38.90	20.20	21.60	ND
5	25/11/2024	TC148142400000451F	26.60	41.60	24.40	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-VI, [Rule 3 (3B), [Part-II-sec-3(i)] 15.11.2009. ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Test Report Date: 07/12/2024

### Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**  
Purpose of Monitoring : **To Check the Pollution Load**  
Sampling Location : **Finger Jetty**  
Method of Sampling : **IS 5162 (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	01/11/2024	202411010114	ND
2	04/11/2024	202411040114	ND
3	07/11/2024	202411070114	ND
4	11/11/2024	202411110114	ND
5	25/11/2024	202411250114	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VI, (Phase 3 (B)), (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 Analyzed within Seven days from the date of sampling, CPCB-Central Pollution Control Board

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	01/11/2024	TC148142400000073F	23.40	33.50	16.20	21.30	ND
2	04/11/2024	TC148142400000090F	24.20	27.30	17.40	22.40	ND
3	07/11/2024	TC148142400000146F	27.80	29.40	18.10	23.40	ND
4	11/11/2024	TC148142400000227F	27.20	25.40	16.30	26.40	ND
5	25/11/2024	TC148142400000452F	26.30	27.20	17.30	21.50	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-I-sec-3(B)] 16.11.2009, ND-Not Detected.  
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010115	ND
2	04/11/2024	202411040115	ND
3	07/11/2024	202411070115	ND
4	11/11/2024	202411110115	ND
5	25/11/2024	202411250115	ND
Test Method			PID Based Methane Analyser

### Remark:

NAQS- National Ambient Air Quality Standards; Schedule-VI [Rule 3 (2B)] [Part-3 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)

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Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC148142400000074F	27.40	32.50	17.30	22.50	ND
2	04/11/2024	TC148142400000091F	25.20	32.70	20.40	23.40	ND
3	07/11/2024	TC148142400000147F	28.50	33.10	21.20	25.20	ND
4	11/11/2024	TC148142400000226F	23.30	32.50	19.50	23.30	ND
5	25/11/2024	TC148142400000453F	26.20	31.40	18.30	21.40	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 (3B)], [Part II-sec-30] 15.11.2009, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



TC-14814



(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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**Test Report Date:** 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010116	ND
2	04/11/2024	202411040116	ND
3	07/11/2024	202411070116	ND
4	11/11/2024	202411110116	ND
5	25/11/2024	202411250116	ND
<b>Test Method</b>			<b>PID Based Methane Analyser</b>

### Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Part-3 (B)) (Part-5 sec-3(i)) 16.11.2009, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

  
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(RAVINDER MITTAL)

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

Test Report Date: 07/12/2024

### Sample Particulars

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

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	01/11/2024	TC14814240000075F	24.40	42.50	22.10	23.40	ND
2	04/11/2024	TC14814240000092F	23.20	37.20	21.20	30.70	ND
3	07/11/2024	TC148142400000148F	26.40	34.30	23.40	28.50	ND
4	11/11/2024	TC148142400000226F	29.60	40.60	20.70	31.30	ND
5	25/11/2024	TC148142400000454F	25.10	41.60	19.40	27.30	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-VI, [Rule 3 (38)], [Part-II-sec-301] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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

**Test Report Date:** 07/12/2024

**Sample Particulars**

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

**Analysis Report**

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	01/11/2024	202411010117	ND
2	04/11/2024	202411040117	ND
3	07/11/2024	202411070117	ND
4	11/11/2024	202411110117	ND
5	25/11/2024	202411250117	ND
<b>Test Method</b>			<b>PID Based Methane Analyser</b>

**Remark:**

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3-(3)(c)] [Part II-sec-50(i)] 16.11.2009, ND=Not Detected.  
DL=Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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## Test Reports of Wastewater (STP)

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

ULR No.: TC14814240000076F-077F  
Test Report Date: 12/11/2024

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 06/11/2024  
Test Started On : 06/11/2024  
Test Completed On : 11/11/2024  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 01/11/2024  
Monitoring Conducted By : Mr. Shridhar  
Sample Description : W-1: STP O/L of Admin Building  
W-2: STP O/L of Car Parking

### Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	pH	---	7.53	7.33	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	58	84	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	80	70	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	16	14	30	IS:3025 (P-44)



TC-14814

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

Test Report No.: 202411010110  
Test Report Date: 12/11/2024

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 06/11/2024  
Test Started On : 06/11/2024  
Test Completed On : 11/11/2024  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 01/11/2024  
Monitoring Conducted By : Mr. Shridhar  
Sample Description : W-1: STP O/L of Admin Building  
W-2: STP O/L of Car Parking

### Analysis Report

Sr. No.	Parameter	Unit	Result		Permissible Limits	Protocol
			W-1	W-2		
1	Faecal Coliform*	MPN/100 ml	542	500	<1000	IS:1622

(AUTHORISED SIGNATORY)

(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

**Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: December 2024**

**Prepared By**



**NITYA LABORATORIES**

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## Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> 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 December 2024 is presented in this report.

## 2.0 Scope and Methodology:

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

### 2.1 Ambient Air Quality

As a part of study, Ambient Air Quality Parameters were measured during the monitoring days date of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



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**AMBIENT AIR QUALITY MONITORING:**

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

**Table: Detail of Ambient Air Quality Monitoring Locations**

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

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



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## Test Reports of Ambient Air Quality Monitoring

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

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000656F	24.60	58.60	15.40	25.80	ND
2	07/12/2024	TC148142400000755F	27.20	55.40	14.20	24.20	ND
3	10/12/2024	TC148142400000812F	19.40	54.20	15.60	30.20	ND
4	16/12/2024	TC148142400000922F	21.50	59.20	13.20	22.50	ND
5	23/12/2024	TC148142400001118F	29.20	53.20	16.20	31.40	ND
6	26/12/2024	TC148142400001198F	20.40	58.10	14.70	32.50	ND
7	30/12/2024	TC148142400001255F	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)) (16.11.2005, ND-Not Detected, DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030110	ND
2	07/12/2024	202412070110	ND
3	10/12/2024	202412100110	ND
4	16/12/2024	202412160110	ND
5	23/12/2024	202412230110	ND
6	26/12/2024	202412260110	ND
7	30/12/2024	202412300110	ND
Test Method			PID Based Methane Analyser

**Remark:**

NAQS- National Ambient Air Quality Standards, Schedule-III, [Rule 3 (38)], [Part-II-sec.-2(i)] 16.11.2009, ND-Not Detected,  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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

Test Report Date: 06/01/2025

### 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. Surya

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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000657F	25.70	30.20	14.50	19.20	ND
2	07/12/2024	TC148142400000756F	23.60	35.20	15.80	27.20	ND
3	10/12/2024	TC148142400000813F	26.40	46.20	16.60	30.50	ND
4	16/12/2024	TC148142400000923F	26.90	39.20	13.60	25.40	ND
5	23/12/2024	TC148142400001119F	20.50	41.20	15.20	29.60	ND
6	26/12/2024	TC148142400001199F	19.20	48.30	16.20	26.20	ND
7	30/12/2024	TC148142400001256F	22.50	26.80	14.50	29.10	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

### Remark:

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



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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030111	ND
2	07/12/2024	202412070111	ND
3	10/12/2024	202412100111	ND
4	16/12/2024	202412160111	ND
5	23/12/2024	202412230111	ND
6	26/12/2024	202412260111	ND
7	30/12/2024	202412300111	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQs: National Ambient Air Quality Standards: Schedule-VII, (Rule 3 (3B)), (Part-II-sec-3(i)) 10.11.2008, ND-Not Detected.  
DL-Detection Limit, the lowest concentration, of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 08/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	ULR No	Concentration				
			Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (as SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Dioxide (as NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon Monoxide (as CO) mg/m <sup>3</sup>
1	03/12/2024	TC148142400000658F	32.40	51.20	16.20	26.50	ND
2	07/12/2024	TC148142400000757F	33.60	56.40	17.40	30.40	ND
3	10/12/2024	TC148142400000814F	26.40	44.60	13.20	29.50	ND
4	16/12/2024	TC148142400000924F	32.00	48.30	18.40	21.50	ND
5	23/12/2024	TC148142400001120F	31.80	52.50	15.20	19.60	ND
6	26/12/2024	TC148142400001200F	30.40	55.10	16.20	31.40	ND
7	30/12/2024	TC148142400001257F	25.20	59.20	14.50	32.40	ND
NAAQM Standards			60	100	80	80	2
Test Method			40CFR Appendix L Part 53 CPCB Guideline	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



TC-14814



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030112	ND
2	07/12/2024	202412070112	ND
3	10/12/2024	202412100112	ND
4	16/12/2024	202412160112	ND
5	23/12/2024	202412230112	ND
6	26/12/2024	202412260112	ND
7	30/12/2024	202412300112	ND
Test Method			PID Based Methane Analyser

#### Remark:

NAAQSS: National Ambient Air Quality Standards, Schedule-MI, [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

**NITYA LABORATORIES**  
**AUTHORISED**  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report Date: 06/01/2025

#### 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. Surya  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000659F	28.40	47.50	15.40	25.40	ND
2	07/12/2024	TC148142400000758F	25.90	54.20	14.50	20.60	ND
3	10/12/2024	TC148142400000815F	24.70	52.40	16.20	24.50	ND
4	16/12/2024	TC148142400000925F	24.50	50.20	15.40	20.40	ND
5	23/12/2024	TC148142400001121F	20.30	56.20	18.20	19.20	ND
6	26/12/2024	TC148142400001201F	16.50	58.20	14.80	28.40	ND
7	30/12/2024	TC148142400001258F	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-8)	IS:5182 (P-10)

#### Remark:

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (38)], [Part-4-sec-3(i)] 16.11.2008, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions, Sample Analysed within Seven days from the date of sampling, CPCB-Central Pollution Control Board



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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030113	ND
2	07/12/2024	202412070113	ND
3	10/12/2024	202412100113	ND
4	16/12/2024	202412160113	ND
5	23/12/2024	202412230113	ND
6	26/12/2024	202412260113	ND
7	30/12/2024	202412300113	ND
Test Method			PID Based Methane Analyser

### Remark:

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



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000660F	29.40	28.60	22.40	28.60	ND
2	07/12/2024	TC148142400000759F	32.50	38.10	24.40	18.20	ND
3	10/12/2024	TC148142400000816F	19.60	36.10	28.20	21.50	ND
4	16/12/2024	TC148142400000928F	18.40	47.10	21.20	18.40	ND
5	23/12/2024	TC148142400001122F	23.20	46.20	31.90	28.40	ND
6	26/12/2024	TC148142400001202F	32.50	49.10	26.20	26.70	ND
7	30/12/2024	TC148142400001259F	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-VII, [Rule 3 (38)] [Part-II-sec-3(i)] 15.11.2006, 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



TC-14814



(RAVINDER MITTAL)

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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030114	ND
2	07/12/2024	202412070114	ND
3	10/12/2024	202412100114	ND
4	16/12/2024	202412160114	ND
5	23/12/2024	202412230114	ND
6	26/12/2024	202412260114	ND
7	30/12/2024	202412300114	ND
Test Method			PID Base / Methane Analyser

### Remark:

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



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000661F	22.50	38.10	19.50	21.40	ND
2	07/12/2024	TC148142400000760F	24.40	30.40	17.20	20.90	ND
3	10/12/2024	TC148142400000817F	31.20	31.50	16.90	24.60	ND
4	16/12/2024	TC148142400000927F	25.40	24.40	17.90	32.20	ND
5	23/12/2024	TC148142400001123F	26.60	32.50	16.30	28.60	ND
6	26/12/2024	TC148142400001203F	28.80	28.40	15.90	27.30	ND
7	30/12/2024	TC148142400001260F	26.20	25.00	15.60	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-VII, [Rule 3(38)], [Part-II sec-3(i)] 16.11.2009 : "Not Detected".  
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specific experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030115	ND
2	07/12/2024	202412070115	ND
3	10/12/2024	202412100115	ND
4	16/12/2024	202412160115	ND
5	23/12/2024	202412230115	ND
6	26/12/2024	202412260115	ND
7	30/12/2024	202412300115	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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000662F	29.60	31.20	19.20	25.60	ND
2	07/12/2024	TC148142400000751F	28.40	20.40	20.60	22.20	ND
3	10/12/2024	TC148142400000818F	26.20	29.40	22.50	27.50	ND
4	16/12/2024	TC148142400000928F	23.40	28.50	18.90	31.40	ND
5	23/12/2024	TC148142400001124F	22.40	34.00	18.40	19.20	ND
6	26/12/2024	TC148142400001204F	25.10	29.80	24.20	20.10	ND
7	30/12/2024	TC148142400001261F	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 (38)], [Part-I-sec-3(i)] 16.11.2009, ND-Not Detected, DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions. Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



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

Test Report Date: 06/01/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030116	ND
2	07/12/2024	202412070116	ND
3	10/12/2024	202412100116	ND
4	16/12/2024	202412160116	ND
5	23/12/2024	202412230116	ND
6	26/12/2024	202412260116	ND
7	30/12/2024	202412300116	ND
Test Method			PID Based Methane Analyser

### Remark:

NAAQ5: National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (3B)], [Part II-sec-3(i)] 16.11.2009. ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report Date: 06/01/2025

### 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. Surya**  
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 <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/12/2024	TC148142400000663F	26.80	28.90	22.40	26.80	ND
2	07/12/2024	TC148142400000762F	25.40	32.40	21.50	33.60	ND
3	10/12/2024	TC148142400000819F	28.80	34.20	22.60	35.40	ND
4	16/12/2024	TC148142400000929F	31.40	48.20	23.90	31.30	ND
5	23/12/2024	TC148142400001125F	24.20	43.20	18.90	25.80	ND
6	26/12/2024	TC148142400001205F	23.20	38.20	16.80	23.40	ND
7	30/12/2024	TC148142400001262F	26.80	46.20	17.50	24.30	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-VI, [Rule 3 (38)], [Part-4-sec.-2(i)] 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



TC-14814



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Vallur Post, Chennai, India

Test Report Date: 06/01/2025

### 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. Surya

24 Hrs.

### Analysis Report

Sr. No.	Date of Sampling	Test Report No.	Concentration
			Methane (%)
1	03/12/2024	202412030117	ND
2	07/12/2024	202412070117	ND
3	10/12/2024	202412100117	ND
4	16/12/2024	202412160117	ND
5	23/12/2024	202412230117	ND
6	26/12/2024	202412260117	ND
7	30/12/2024	202412300117	ND
Test Method			PID Based Methane Analyser

### Remark:

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



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## Test Reports of Wastewater (STP)

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

ULR No.: TC148142400000763F-764F  
Test Report Date: 18/12/2024

### Sample Particulars

Nature of the Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started On

Test Completed On

Method of Sampling

Date of Sampling

Monitoring Conducted By

Sample Description

**Wastewater (STP)**

1.0 Liter, Pet Bottle (Each)

12/12/2024

12/12/2024

17/12/2024

SOP/B/D-3

07/12/2024

Mr. Surya

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	116	286	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)



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

**Test Report No.:** 202412070130-131  
**Test Report Date:** 18/12/2024

### Sample Particulars

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

**Wastewater (STP)**  
1.0 Liter, Pet Bottle (Each)  
12/12/2024  
12/12/2024  
17/12/2024  
SOP/B/D-3  
07/12/2024  
Mr. Surya  
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	Faecal Coliform*	MPN/100 ml	486	669	<1000	IS:1622

(AUTHORISED SIGNATORY)  
(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: January 2025**

**Prepared By**



### **NITYA LABORATORIES**

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### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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### Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> Major Port. It Works on the model of 'Landlord' concept. KPL's policy is to manage the port in a proactive 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 must 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 January 2025 is presented in this report.

### 2.0 Scope and Methodology:

The scope of work 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 PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



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### AMBIENT AIR QUALITY MONITORING:

Ambient air quality was monitored at different locations inside the port. The study area covers the periphery of Port and different parts of the port. A Total of 8 Ambient Air Quality Monitoring Stations covering both upwind and downwind were monitored during January 2025.

**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<sub>10</sub> & PM<sub>2.5</sub>, Samples of SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO each were monitored by using Respirable dust sampler, Fine Particulate Sampler, Methane & CO Analyzer.



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## Test Reports of Ambient Air Quality Monitoring

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(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

ULR No.: TC146142500000055F.383F.439F.488F  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) ug/m3	Carbon Monoxide (as CO) mg/m3
1	04/01/2025	23.5	57.6	14.3	24.5	ND
2	06/01/2025	27.0	54.3	13.8	23.6	ND
3	09/01/2025	18.8	53.2	14.5	30.7	ND
4	18/01/2025	19.2	58.4	13.9	21.5	ND
5	20/01/2025	28.2	52.2	16.1	31.2	ND
6	23/01/2025	19.6	56.6	14.15	31.3	ND
7	27/01/2025	18.4	57.2	15.9	23.2	ND
8	30/01/2025	20.5	52.5	16.5	25.6	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)

Presented by the

NAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)] Part-I sec.-3(i)(c) 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.



(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
IRAVINDER MITTAL

[illegible]

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

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

Test Report No.: 202501040110-117  
Test Report Date: 10/02/2025

#### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	18/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

#### Remarks:

NAAQSE: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (GB)], [Part-9 (sec-30)] 15.11.2009; ND: Not Detected.  
DL: Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

ULR No.: TC148142500000056F.384F.440F.489F  
Test Report Date: 10/02/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	24.0	29.5	13.2	18.5	ND
2	06/01/2025	22.6	34.4	14.6	26.5	ND
3	09/01/2025	25.6	45.2	15.4	29.2	ND
4	16/01/2025	25.9	38.2	12.8	24.5	ND
5	20/01/2025	19.7	40.4	13.4	28.9	ND
6	23/01/2025	19.2	46.2	15.9	25.3	ND
7	27/01/2025	21.9	25.9	13.7	28.2	ND
8	30/01/2025	22.2	31.8	15.2	23.9	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 (3B)) (Part-II-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 Analyzed within Seven days from the date of sampling. CFCB: Central Pollution Control Board.



TC-14814

(CHECKED BY)  
(SANDEEP SAINI)



(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Test Report No.: 202501040118-125  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	05/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

RAAQ: National Ambient Air Quality Standards, Schedule VII (Part 3 (B)) (Part II sec-38) 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

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ULIR No.: TC148142500000057F,385F, 441F, 490F  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Carbon Monoxide (as CO) mg/m3
1	04/01/2025	30.3	50.2	15.2	25.2	ND
2	05/01/2025	32.4	54.4	16.5	29.2	ND
3	09/01/2025	26.1	43.2	13.1	28.5	ND
4	18/01/2025	31.2	47.2	17.5	20.2	ND
5	20/01/2025	29.5	51.4	14.3	18.4	ND
6	23/01/2025	28.6	53.9	15.9	30.1	ND
7	27/01/2025	25.2	56.2	13.8	31.4	ND
8	30/01/2025	29.05	55.2	16.1	28.7	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

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



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(SANDEEP SAINI)

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Test Report No.: 202601040126-133  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	05/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

NAQS: 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

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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ULR No.:  
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TC14814250000058F,386F, 442F, 491F  
10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	27.0	46.2	15.8	25.6	ND
2	06/01/2025	23.5	53.5	14.3	21.8	ND
3	09/01/2025	23.1	50.0	16.1	24.3	ND
4	16/01/2025	21.7	49.2	15.9	21.2	ND
5	20/01/2025	20.9	54.2	18.5	22.4	ND
6	23/01/2025	21.4	56.2	14.8	28.0	ND
7	27/01/2025	24.3	46.4	16.0	27.8	ND
8	30/01/2025	25.6	46.7	16.6	23.4	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)(c) 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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board.



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Test Report No.: 202501040134-141  
Test Report Date: 10/02/2025

### 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. Surya

24 Hrs.

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

NAAQS: National Ambient Air Quality Standards: Schedule-VII, [Rule 3 (B)], [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 Analysis within Seven days from the date of sampling. CPCB-Central Pollution Control Board.

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ULR No.: TC148142500000059F, 387F, 443F, 492F  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	29.05	32.2	21.3	28.8	ND
2	05/01/2025	32.10	38.4	23.4	25.3	ND
3	09/01/2025	19.2	36.3	27.6	28.2	ND
4	16/01/2025	18.4	44.5	20.2	23.4	ND
5	20/01/2025	23.5	48.4	30.4	32.10	ND
6	23/01/2025	31.2	47.2	25.5	27.9	ND
7	27/01/2025	28.2	43.3	22.9	29.2	ND
8	30/01/2025	29.9	37.2	24.2	28.4	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)

## REFERENCES

MASSQS: National Ambient Air Quality Standards; Schedule VI, [Rule 3 (35), Part I-sec.34(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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board



TC-14814

(CHECKED BY)  
(SANDEEP SAINI)

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Test Report No.: 202501040142-149  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

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

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(SANDEEP SAINI)

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(RAVINDER MITTAL)

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

ULR No.: TC148142500000060F.388F, 444F, 493F  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	23.1	37.2	16.2	21.4	ND
2	06/01/2025	23.5	30.4	17.4	20.7	ND
3	09/01/2025	30.3	31.5	16.5	24.8	ND
4	16/01/2025	24.7	23.5	17.6	32.5	ND
5	20/01/2025	25.2	32.2	16.2	28.5	ND
6	23/01/2025	27.4	28.8	15.6	27.3	ND
7	27/01/2025	25.6	25.9	15.2	30.2	ND
8	30/01/2025	28.1	32.9	19.3	22.5	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 (Phase 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.



TC-14814

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(SANDEEP SAINI)



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

Test Report No.: 202501040150-157  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

#### Remark:

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

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ULR No.: TC148142500000061F.389F.445F.494F  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	04/01/2025	28.2	30.9	18.1	24.5	ND
2	06/01/2025	27.3	29.4	19.4	21.8	ND
3	08/01/2025	26.0	28.2	21.2	26.1	ND
4	16/01/2025	22.2	27.8	17.8	29.7	ND
5	20/01/2025	21.8	33.2	17.2	19.6	ND
6	23/01/2025	24.8	30.2	23.1	20.8	ND
7	27/01/2025	23.0	32.8	22.3	21.7	ND
8	30/01/2025	24.7	30.4	19.3	22.4	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 2 (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-14814

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(RAVINDER MITTAL)

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

Test Report No.: 202501040158-165  
Test Report Date: 10/02/2025

### 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. Surya

Sampling Duration (Hrs.) :

24 Hrs.

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

### Remarks:

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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

ULR No.: TC148142500300062F.390F. 446F, 495F  
Test Report Date: 10/02/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1.	04/01/2025	26.4	29.4	22.3	25.6	ND
2.	08/01/2025	26	32.6	21.5	32.4	ND
3.	09/01/2025	28.6	34.5	22.8	33.2	ND
4.	16/01/2025	31.5	44.5	23.4	30.4	ND
5.	20/01/2025	24.7	42.6	19.7	24.3	ND
6.	23/01/2025	23.9	38.5	17.9	22.7	ND
7.	27/01/2025	26.5	45.2	18.2	23.8	ND
8.	30/01/2025	29.4	42.3	20.4	27.4	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) 16-11-2009, 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-14814

(CHECKED BY)  
(SANDEEP SAINI)



(AUTHORISED SIGNATORY)  
(TRAVINDER MITAL)

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Vallur Post, Chennai, India

Test Report No.: 202501040166-173  
Test Report Date: 10/02/2025

### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

## Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	04/01/2025	ND
2	06/01/2025	ND
3	09/01/2025	ND
4	16/01/2025	ND
5	20/01/2025	ND
6	23/01/2025	ND
7	27/01/2025	ND
8	30/01/2025	ND
Test Method		PID Based Methane Analyser

## Remarks:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (18)], [Part-I, sec-3(i)] 18.11.2009, ND-Not Detected  
 DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
 Sample Analysed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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## Test Reports of Wastewater (STP)

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

ULR No.: TC148142500000342F-343F  
Test Report Date: 31/01/2025

### Sample Particulars

Nature of the Sample	Wastewater (STP)
Sample Quantity & Packaging	1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	24/01/2025
Test Started On	24/01/2025
Test Completed On	30/01/2025
Method of Sampling	SOP/B/D-3
Date of Sampling	21/01/2025
Monitoring Conducted By	Mr. Surya
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	---	7.56	7.24	5.5 to 9.0	IS-3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	104	220	50	IS-3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	50	40	150	IS-3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	10	8	30	IS-3025 (P-44)



TC-14814

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(SANDEEP SAINI)

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(RAVINDER MITTAL)

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

Test Report No.: 202501210110-111  
Test Report Date: 31/01/2025

### Sample Particulars

Nature of the Sample : **Wastewater (STP)**  
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle (Each)  
Sample Received at Lab : 24/01/2025  
Test Started On : 24/01/2025  
Test Completed On : 30/01/2025  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 21/01/2025  
Monitoring Conducted By : Mr. Surya  
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	Faecal Coliform*	MPN/100 ml	426	788	<1000	IS:1622

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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## **Kamarajar Port Limited**

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

### **Reports on Environmental Monitoring of Kamarajar Port Limited**



**Study Period: March 2025**

**Prepared By**



### **NITYA LABORATORIES**

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### Introduction

Kamaraj Port Trust is the First Corporatized Port in India and the 12<sup>th</sup> Major Port. It Works on the model of 'Landlord' concept. KPL's policy is to manage the port in a proactive 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 must 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 January 2025 is presented in this report.

### 2.0 Scope and Methodology:

The scope of work 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 day's date of PM<sub>10</sub>.

PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, Methane and CO were monitored.



### AMBIENT AIR QUALITY MONITORING:

Ambient air quality was monitored at different locations inside the port. The study area covers the periphery of Port and different parts of the port. A Total of 8 Ambient Air Quality Monitoring Stations covering both upwind and downwind were monitored during March 2025.

**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<sub>10</sub> & PM<sub>2.5</sub>, Samples of SO<sub>2</sub>, NO<sub>2</sub> Methane and CO each were monitored by using Respirable dust sampler. Fine Particulate Sampler, Methane & CO Analyzer.



## Test Reports of Ambient Air Quality Monitoring

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(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

Issued To: **M/s Kamarajar Port Trust**

Vallur Post, Chennai, India

ULR No.: TC148142500001300F, 1335F, 1414F, 1492F, 1543F,  
1596F, 1767F, 1862F, 1992F

Test Report Date: 07/04/2025

#### 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. Surya**  
Sampling Duration (Hrs.): **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	21.40	54.60	12.30	21.50	ND
2	06/03/2025	25.20	51.30	11.80	20.60	ND
3	10/03/2025	16.60	50.30	12.50	27.70	ND
4	13/03/2025	17.10	55.40	11.90	18.50	ND
5	17/03/2025	26.10	49.20	14.10	28.20	ND
6	20/03/2025	17.50	53.60	12.20	20.20	ND
7	24/03/2025	16.20	54.20	13.90	22.60	ND
8	27/03/2025	18.40	49.20	14.50	19.60	ND
9	31/03/2025	19.20	50.60	13.20	23.60	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.-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

(CHECKED BY)  
(SANDEEP SAINI)



TC-14814

(AUTHORISED SIGNATORY)  
(RAVINDEER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202503030110-118  
Test Report Date: 07/04/2025

### 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. Surya
Sampling Duration (Hrs.)	± 24 Hrs

### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
Test Method		PID Based Methane Analyser

### Remark:

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

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(SANDEEP SAINI)

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(RAVINDER MITTAL)

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Valur Post, Chennai, India

ULR No.: TC148142500001301F, 1336F, 1415F, 1493F, 1544F,  
1597F, 1768F, 1863F, 1993F

Test Report Date: 07/04/2025

#### 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. Surya

24 Hrs.

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	21.80	26.50	11.20	15.50	ND
2	06/03/2025	20.50	31.40	12.60	23.50	ND
3	10/03/2025	23.50	42.20	13.40	26.20	ND
4	13/03/2025	23.90	35.20	10.80	21.50	ND
5	17/03/2025	17.50	37.40	11.40	25.90	ND
6	20/03/2025	17.10	43.20	13.90	22.30	ND
7	24/03/2025	20.10	22.90	11.70	26.50	ND
8	27/03/2025	19.70	28.80	13.20	20.90	ND
9	31/03/2025	18.80	29.40	12.90	21.80	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-VI, [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.

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(SANDEEP SAINI)



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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

Test Report No.: 202503030119-127

Test Report Date: 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

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

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(SANDEEP SAINI)

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Vallur Post, Chennai, India

ULR No.:

TC148142500001302F, 1337F, 1416F, 1494F, 1545F,  
1598F, 1789F, 1864F, 1994F

Test Report Date:

07/04/2025

#### 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. Surya

24 Hrs

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	28.20	47.20	13.20	22.20	ND
2	06/03/2025	30.30	51.40	14.50	26.20	ND
3	10/03/2025	34.30	40.20	11.20	25.50	ND
4	13/03/2025	29.10	44.20	15.50	17.20	ND
5	17/03/2025	27.40	49.20	12.30	15.40	ND
6	20/03/2025	26.50	50.90	13.90	27.10	ND
7	24/03/2025	23.10	53.20	11.80	28.40	ND
8	27/03/2025	27.80	52.20	14.10	25.70	ND
9	31/03/2025	28.60	45.80	12.80	23.80	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 (26)], [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. CFCB-Central Pollution Control Board

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(SANDEEP SAINI)



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(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

Test Report No.: 202503030128-136  
Test Report Date: 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	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

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ULR No.:

TC148142500001303F, 1338F, 1417F, 1495F, 1545F,  
1599F, 1770F, 1865F, 1995F

Test Report Da

07/04/2025

#### 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. Surya**

⋮ **24 Hrs**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	25.20	43.20	13.80	22.60	ND
2	06/03/2025	21.40	50.50	12.30	18.80	ND
3	10/03/2025	22.20	47.20	14.20	21.30	ND
4	13/03/2025	19.70	46.20	13.20	18.20	ND
5	17/03/2025	18.80	51.20	16.50	19.40	ND
6	20/03/2025	19.20	53.40	12.80	25.20	ND
7	24/03/2025	22.30	43.20	14.00	24.80	ND
8	27/03/2025	23.50	43.90	14.60	20.40	ND
9	31/03/2025	24.30	48.50	15.40	23.40	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (38)], [Part-4-sec-3(i)] 16.11.2006. ND-Not Detected.  
DL-Detection Limit, 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.

(CHECKED BY)  
(SANDEEP SAINI)



TC-14814

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

**Test Report No.:** 202503030137-145  
**Test Report Date:** 07/04/2025

**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. Surya

24 Hrs.

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Rule 3 (3)(i)) (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 Analyzed within Seven days from the date of sampling. CPCB-Central Pollution Control Board

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(SANDEEP SAINI)

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

ULR No.: TC148142500001304F, 1339F, 1418F, 1496F, 1547F, 1600F  
1771F, 1866F, 1996F

Test Report Date: 07/04/2025

#### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	27.40	29.20	19.30	25.80	ND
2	06/03/2025	30.30	35.40	21.40	22.30	ND
3	10/03/2025	17.10	33.30	25.60	25.20	ND
4	13/03/2025	16.20	41.50	18.20	20.40	ND
5	17/03/2025	21.40	43.40	28.40	29.20	ND
6	20/03/2025	29.10	44.20	23.50	24.90	ND
7	24/03/2025	26.00	40.30	20.90	26.20	ND
8	27/03/2025	27.80	34.20	22.30	26.40	ND
9	31/03/2025	22.20	32.60	20.20	23.60	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-VI, (Rule 3 (3B)), (Part-II-sec-3(i)) 15.11.2008, ND-Not Detected.  
DL-Detection Limit, the lowest concentration of a substance that can be accurately measured under specified experimental conditions.  
Sample Analysed within Seven days from the date of sampling, CPCB Central Pollution Control Board

(CHECKED BY)  
(SANDEEP SAINI)



(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

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

**Test Report No.:** 202503030146-154  
**Test Report Date:** 07/04/2025

#### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

#### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	05/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

#### Remark:

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

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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Vallur Post, Chennai, India

ULR No.: TC148142500001305F,1340F, 1419F, 1497F, 1548F, 1601F  
1772F, 1867F, 1997F

Test Report Date: 07/04/2025

### 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. Surya**  
Sampling Duration (Hrs.) : **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	21.10	34.20	16.20	18.40	ND
2	06/03/2025	21.40	27.40	15.40	17.70	ND
3	10/03/2025	28.20	28.50	14.50	21.80	ND
4	13/03/2025	22.60	20.50	15.80	29.60	ND
5	17/03/2025	23.10	29.20	14.20	25.50	ND
6	20/03/2025	25.20	25.80	13.60	24.30	ND
7	24/03/2025	23.50	22.90	13.20	27.20	ND
8	27/03/2025	23.90	29.90	17.30	19.50	ND
9	31/03/2025	24.40	28.80	16.60	20.60	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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

(CHECKED BY)  
(SANDEEP SAINI)



TC-14814

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

**Test Report No.:** 202503030155-163  
**Test Report Date:** 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

**Remarks:**

NAAQS: National Ambient Air Quality Standards; Schedule-VI, [Rule 3 (3B)], [Part II-sec-3(i)] 15.11.2006, 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

(CHECKED BY)  
(SANDEEP SAINI)

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(RAVINDER MITTAL)

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ULR No.:

TC148142500001306F, 1341F, 1420F, 1498F, 1549F, 1602F  
1773F, 1868F, 1998F

Test Report Date:

07/04/2025

### 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. Surya**

Sampling Duration (Hrs.)

: **24 Hrs**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1	03/03/2025	26.10	27.90	15.10	21.50	ND
2	06/03/2025	25.30	26.40	17.40	18.80	ND
3	10/03/2025	24.20	25.20	19.20	23.20	ND
4	13/03/2025	20.20	24.80	16.80	20.70	ND
5	17/03/2025	19.70	30.20	15.20	16.60	ND
6	20/03/2025	22.80	27.20	20.10	17.80	ND
7	24/03/2025	21.60	29.80	19.30	18.70	ND
8	27/03/2025	22.70	27.40	16.30	19.40	ND
9	31/03/2025	23.50	28.80	16.50	20.80	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

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

(CHECKED BY)  
(SANDEEP SAINI)



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

**Test Report No.:** 202503030164-172  
**Test Report Date:** 07/04/2025

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

**Analysis Report**

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	05/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
<b>Test Method</b>		<b>PID Based Methane Analyser</b>

**Remark:**

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

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(SANDEEP SAINI)

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(RAVINDER MITTAL)

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Vallur Post, Chennai, India

ULR No.:

TC148142500001307F, 1342F, 1421F, 1499F, 1550F, 1603F,  
1774F, 1869F, 1999F

Test Report Date:

07/04/2025

### 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. Surya**

Sampling Duration (Hrs.)

: **24 Hrs.**

### Analysis Report

Sr. No.	Date of Sampling	Concentration				
		Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (as SO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Nitrogen Dioxide (as NO <sub>2</sub> ) $\mu\text{g}/\text{m}^3$	Carbon Monoxide (as CO) $\text{mg}/\text{m}^3$
1.	03/03/2025	24.40	26.40	20.20	22.60	ND
2.	06/03/2025	24.10	29.60	19.50	29.40	ND
3.	10/03/2025	26.60	31.50	20.80	30.20	ND
4.	13/03/2025	29.50	41.50	21.40	27.40	ND
5.	17/03/2025	22.70	39.60	17.70	21.30	ND
6.	20/03/2025	21.90	35.60	15.90	19.30	ND
7.	24/03/2025	24.50	42.20	16.20	20.80	ND
8.	27/03/2025	27.40	39.30	16.40	24.70	ND
9.	31/03/2025	25.20	32.60	20.60	23.80	ND
NAAQM Standards		60	100	80	80	2
Test Method		40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)

Remark:

NAAQS: National Ambient Air Quality Standards, Schedule-VII, (Table 3 (2008), (Part-I) 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

(CHECKED BY)

(SANDEEP SAINI)



TC-14814

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

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

Test Report No.: 202503030173-181  
Test Report Date: 07/04/2025

#### 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. Surya
Sampling Duration (Hrs.)	: 24 Hrs.

#### Analysis Report

Sr. No.	Date of Sampling	Concentration
		Methane (%)
1	03/03/2025	ND
2	06/03/2025	ND
3	10/03/2025	ND
4	13/03/2025	ND
5	17/03/2025	ND
6	20/03/2025	ND
7	24/03/2025	ND
8	27/03/2025	ND
9	31/03/2025	ND
Test Method		PID Based Methane Analyser

#### Remark:

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

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(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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## Test Reports of Wastewater (STP)

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(SANDEEP SAINI)

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(RAVINDER MITTAL)

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

ULR No.: TC148142500001508F-1509F  
Test Report Date: 27/03/2025

### Sample Particulars

Nature of the Sample	: <b>Wastewater (STP)</b>
Sample Quantity & Packaging	: 1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	: 20/03/2025
Test Started On	: 20/03/2025
Test Completed On	: 26/03/2025
Method of Sampling	: SOP/B/D-3
Date of Sampling	: 17/03/2025
Monitoring Conducted By	: Mr. Surya
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	7.35	5.5 to 9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l	82	180	50	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/l	60	50	150	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (5 days at 20°C) (BOD)	mg/l	12	9	30	IS:3025 (P-44)

.....End of Report.....



TC-14814

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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

Test Report No.: 202503170110-111  
Test Report Date: 27/03/2025

### Sample Particulars

Nature of the Sample	Wastewater (STP)
Sample Quantity & Packaging	1.0 Liter, Pet Bottle (Each)
Sample Received at Lab	20/03/2025
Test Started On	20/03/2025
Test Completed On	26/03/2025
Method of Sampling	SOP/B/D-3
Date of Sampling	17/03/2025
Monitoring Conducted By	Mr. Surya
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	Faecal Coliform*	MPN/100 ml	542	754	<1000	IS:1622

.....End of Report.....

(CHECKED BY)  
(SANDEEP SAINI)

(AUTHORISED SIGNATORY)  
(RHYTHM BASSON\*)

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

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**KAMARAJAR PORT LIMITED**



**Compliance Report**

**On**

**Ministry's guidelines for**

**“EXPANSION AND MODERNIZATION OF EXISTING HANDLING  
OF MULTICARGO CONTAINER TERMINAL AT KAMARAJAR  
PORT, TAMIL NADU”**

**Expansion and modernization of existing handling of Multicargo container terminal at Kamarajar Port, Tamil Nadu by M/s. Kamarajar Port Limited- Environmental and CRZ Clearance.**

**Ref: MoEF's Notification No. 10-28/2005-IA-III dated 24.12.2014**

MoEFCC had accorded the Environmental & CRZ Clearance on 24.12.2014 for the development of multicargo terminal by bifurcating the Container Terminal which was earlier proposed in a quay length of 1000m. The EC is for the development of Multicargo berth of capacity 2MTPA in 270m quay length and a Container Terminal of capacity in 730 quay length. KPL has awarded the development of Multi Cargo Terminal on DBFOT basis for a capacity of 2MTPA with an estimated cost of Rs.151 crores to M/s Chettinad International Bulk Terminal Pvt. Ltd. Concession agreement was signed on 28.03.2014. Award of Concession was granted to the Concessionaire from 27.02.2015. The Concessionaire has completed the berth construction, utility, back yard etc. and started operation.

**Cargoes to be handled**

Development of multi cargo container terminal is to handle Project clean cargoes like Granite, timber logs, Grains, bagged cargoes including sugar, cobble stone, steel cargoes, project cargo and small quantity of containers of about 2 Million tonnes per annum.

Development of Container Terminal at KPL on DBFOT basis was awarded to M/s. Adani Ennore Container Terminal Private Limited (AECTPL). The quantity handled will be 11.68 MTPA.

S.No	Specific Conditions	Compliance Status
1	"Consent for Establishment" for the present project, shall be obtained from State Pollution Control Board under Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974.	<p>Kamarajar Port has obtained "Consent to Establish" from Tamilnadu Pollution Control Board (TNPCB) for handling container cargo of 16.8 MMTPA vide consent order No. 170126235691 (Air Act) and 170116235691 (Water Act) dated 21.04.2017 valid till 31.03.2024.</p> <p>TNPCB has accorded renewal of Consent To Operate for the terminal vide their orders nos. 2108136876855 &amp; 2108236876855 under Water and Air Acts., vide till 31.03.2026.</p> <p>With regard to M/s Ennore Bulk Terminal (EBTPL), TNPCB accorded Consent To Establish vide order No. 15012566008 &amp; 15011566008, dated</p>

		25.05.2015 and Consent to operate vide Order No.1808212438509 (Air) and 1808112438509 (Water) dtd. 19.06.2023, valid upto 31.03.2028.
2	Quantity of cargo should be handled in accordance with the details provided in the Form-1	<b>Complied with.</b>
3	All the recommendations and conditions stipulated by Tamil Nadu Coastal Zone Management Authority (TNCZMA) No. 30060/EC.3/2005-1 dated 06.12.2005, shall be complied with.	<b>Complied with.</b>
4	All the conditions as prescribed in the earlier Clearance letter no. 10-28/2005-IA-III dated 19.05.2006 and 10.09.2007, shall be complied.	<b>Complied with.</b>
5	All the recommendation of the EIA/EMP & Risk Assessment and Disaster Management Report shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation submitted in the EIA report shall be submitted to MoEF&CC along with half yearly compliance report to MoEF&CC-RO	EIA/EMP report in a matrix format is enclosed as <b>Annexure -I.</b>
6	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.	No direction was given to conduct public hearing for the project.
7	<p><b>Corporate Environment Responsibility:</b></p> <p>a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.</p>	With regard to Container Terminal, the terminal operator M/s. AECTPL is having approved QHSE policy.

	<p>b) The Environment Policy shall prescribe for standard operating process/producers to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.</p> <p>c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.</p> <p>d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</p>	<p>With regard to Multicargo terminal, the terminal operator M/s EBTPL is having Group Environmental Policy.</p> <p>With regard to Container Terminal, the terminal operator M/s. AECTPL is having approved SOPs.</p> <p>With regard to Multicargo terminal, the terminal operator M/s EBTPL, the firm is is having Group Environmental Policy.</p> <p>Kamarajar Port and its terminal operators are having Standard Operating Procedures (SOPs) to address corrective, preventive, deviations and violations.</p>
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### **General Conditions**

<b>S.No</b>	<b>Environmental Clearance Conditions</b>	<b>Compliance Status</b>
(i)	Appropriate measures must be taken while understanding digging activities to avoid any likely degradation of water quality.	<p><b>Complied with.</b></p> <p>Construction completed and the project is under operation.</p>
(ii)	Full support shall be extended to the officers of this Ministry/Regional Office at Chennai by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	<p><b>Agreed to comply.</b></p> <p>Full supported is being extended to the officers of IRO, MoEF &amp; CC, Chennai, CPCB &amp; TNPCB during their inspection and site visits. During the compliance period, monthly visits were made by TNPCB officials and all necessary support were extended.</p>

(iii)	A six-monthly monitoring report shall need to be submitted by the project proponent to the Regional Office of this Ministry at Chennai regarding the implementation of the stipulated conditions.	<b>Complied with.</b>  The six-monthly compliance status report on the conditions stipulated vide Environmental clearance letters is being sent to Regional Office of MoEF & CC and Tamilnadu Pollution Control Board.
(iv)	Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	<b>Agreed to comply.</b>
(v)	The Ministry reserves the right to revoke this clearance if any of the condition stipulated are not complied with the satisfaction of the Ministry.	<b>Agreed to comply.</b>
(vi)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest & Climate Change.	<b>Agreed to comply.</b>
(vii)	The project proponent shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	<b>Agreed to comply.</b>
(viii)	A copy of the clearance letter shall be marked to concern Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	No suggestion / representation were received from the Panchayat/NGO while processing the proposal. However a copy of the clearance letter was forwarded to local Panchayat.
(ix)	The project proponent shall set up separate environmental management cell for effective implementation of the	<b>Complied with.</b>  With regard to container terminal, the

	<p>stipulated environmental safeguards under the supervision of a Senior Executive.</p>	<p>terminal operator M/s AECTPL is having a separate EMC with suitable qualified staff has been put in place by AECTPL for taking care of various day to day environmental monitoring compliance and allied activities. Environmental Department headed by Senior Manager-Environment, who is well supported by Environmental Management Team at H.O.</p> <p>With regard to multicargo terminal, the terminal operator M/s. EBTPL has established a separate environmental team at HO is taking care of all environmental activities.</p>																		
(x)	<p>The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any purposes.</p>	<p><b>Complied with.</b></p> <p>With regard to M/s AECTPL, the terminal operator is earmarked a separate environmental budget every year. All the expenses are recorded in the advanced accounting system of the organization. Expenditure for Environmental Management during the compliance period is Rs.17.46 Lakhs. The breakup details are as follows:</p> <table border="1"> <thead> <tr> <th>S.No</th><th>Description</th><th>Amount in Lakhs Rs.</th></tr> </thead> <tbody> <tr> <td>1</td><td>Environmental Monitoring</td><td>8.44</td></tr> <tr> <td>2</td><td>Greenbelt</td><td>5.16</td></tr> <tr> <td>3</td><td>STP – O &amp; M</td><td>1.90</td></tr> <tr> <td>4</td><td>Integrated Waste Management system</td><td>1.96</td></tr> <tr> <td colspan="2"><b>Total</b></td><td>17.46</td></tr> </tbody> </table> <p>With regard to multicargo terminal, the terminal operator M/s. EBTPL has incurred an amount of carried out by M/s EBTPL during the FY 2024-25 is Rs.36,99,493/-.</p>	S.No	Description	Amount in Lakhs Rs.	1	Environmental Monitoring	8.44	2	Greenbelt	5.16	3	STP – O & M	1.90	4	Integrated Waste Management system	1.96	<b>Total</b>		17.46
S.No	Description	Amount in Lakhs Rs.																		
1	Environmental Monitoring	8.44																		
2	Greenbelt	5.16																		
3	STP – O & M	1.90																		
4	Integrated Waste Management system	1.96																		
<b>Total</b>		17.46																		

5	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	<b>Noted.</b>
6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authority.	<p><b>Noted.</b></p> <p>Approvals shall be obtained as applicable.</p> <p>With regard to Multicarro terminal, the terminal operator M/s EBTPL has obtained Fire Service License from Tamil Nadu Fire &amp; Rescue Service under Section 13 of the Tamil Nadu Fire Services Act 1985 and in accordance with Tamil Nadu Fire service Rules 1990 Appendix III) Lic.No.3589/2019 dtd.30.10.2019.</p>
7	The project proponent shall advertise in atleast two local Newspaper widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ clearance and copies of clearance letters are available with the Tamil Nadu State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at	The advertisement was given in the local Tamil newspaper Dinamani & New Indian Express paper on 04.02.2015 intimating the accordence of Environmental & CRZ clearance for the project. The copy of the same was forwarded to MoEF&CC.

	Chennai.	
8	This clearance is subject to final order of the Hon'ble Supreme court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	<b>Noted.</b>
9	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<b>Noted.</b>
10	Status of compliance to the various stipulated environmental conditions and environment safeguards will be uploaded by the project proponent in its website.	<p>Kamarajar Port is uploading the status of environmental compliance in its website.</p> <p>The container terminal operators M/s.AECTPL has uploaded the status of compliance in its website.</p>

11	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad /Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<p><b>Complied with.</b></p> <p>The copy of the clearance letter was forwarded to local Panchayat.</p>
12	The proponent shall upload the status of compliance of the stipulated Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	<p><b>Complied with.</b></p>
13	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respect Zonal of CPCB and SPCB.	<p>Port is submitting the bi-annual compliance report to Regional Office of MoEF &amp; CC.</p>
14	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall be sent to the respective Regional Office of MoEF&CC by e-mail.	<p><b>Noted and being complied with.</b></p> <p>The environmental statements of M/s.AECTPL and M/s.EBTPL are enclosed herewith.</p>

**Annexure -I****Environmental Mitigation Measures in Matrix format**

<b>S.No</b>	<b>Component</b>	<b>Impact</b>	<b>Mitigation Measures</b>
<b>Construction Phase</b>			
1.	Land	<ul style="list-style-type: none"><li>• Change in topography of inner dock basin, which will be dredged and converted into marine berthing area.</li><li>• Land pollution due to discharge of sewage and solid waste onto land.</li></ul>	<ul style="list-style-type: none"><li>• Use of removed soil (top soil only) for green belt development.</li><li>• No change in land use land cover as the proposed project site is located within the existing break waters.</li><li>• Disposal of solid waste through authorized recyclers/contractors.</li><li>• Local labours are engaged.</li></ul>
2.	Water	<ul style="list-style-type: none"><li>• Water pollution due to disposal of sewage and construction waste into water body.</li></ul>	<ul style="list-style-type: none"><li>• No construction waste is disposed off into the water body.</li></ul>
3.	Air	<ul style="list-style-type: none"><li>• Generation of PM2.5, PM10, CO, SO2, NO2</li></ul>	<ul style="list-style-type: none"><li>• Raw materials for construction will be brought inside the port in trucks with proper covers.</li><li>• Regular servicing of vehicles and DG sets.</li><li>• Compulsory wearing of Personal Protective Equipment (PPE) like dust mask etc by workers.</li></ul>
4.	Noise and Vibration	<ul style="list-style-type: none"><li>• Increase in the noise level due to movement of vehicles and construction activities.</li><li>• Vibration due to movement of vehicles and construction activities.</li></ul>	<ul style="list-style-type: none"><li>• Regular servicing and maintenance of construction Machineries, equipments and vehicles is carried out to control noise.</li><li>• Compulsory wearing of Personal Protective Equipment (PPE) like ear plugs or ear muff by workers.</li><li>• The impact due to vibration from vehicular movement is insignificant.</li></ul>
5.	Marine	<ul style="list-style-type: none"><li>• Increase in suspended solid</li></ul>	<ul style="list-style-type: none"><li>• Usage of silt curtains to</li></ul>

	Environment	<p>concentration due to dredging in the marine water body.</p> <ul style="list-style-type: none"> <li>• Change in shoreline.</li> </ul>	<p>contain spread of suspended sediment in marine water body.</p> <ul style="list-style-type: none"> <li>• Since, the construction of the berth is inside the breakwaters hence no changes in shoreline.</li> </ul>
6.	Biological <ul style="list-style-type: none"> <li>• Flora</li> <li>• Fauna</li> </ul>	<ul style="list-style-type: none"> <li>• Site clearance.</li> <li>• Disturbance due to increase in noise.</li> </ul>	<ul style="list-style-type: none"> <li>• The activities do not create any disturbance to flora and fauna.</li> <li>• No operations of heavy machinery.</li> </ul>
7.	Socio-Economic	<ul style="list-style-type: none"> <li>• Employment generation.</li> </ul>	<ul style="list-style-type: none"> <li>• Local people were engaged by the contractors during construction.</li> </ul>
<b>Operation Phase</b>			
8.	Land	<ul style="list-style-type: none"> <li>• Pollution due to discharge of sewage.</li> <li>• Generation of ship and port generated solid wastes</li> </ul>	<ul style="list-style-type: none"> <li>• Sanitation facilities were provided.</li> <li>• Sewage will be collected in septic tank, which will be emptied regularly by contractor.</li> <li>• Port has facilitated the ships with reception facilities for the disposal of solid wastes as required under MARPOL regulations.</li> </ul>
9.	Water	<ul style="list-style-type: none"> <li>• Consumption of water.</li> <li>• Contamination of water body by discharge of untreated sewage.</li> <li>• Contamination of water body due to discharge of contaminated storm water runoff.</li> </ul>	<ul style="list-style-type: none"> <li>• Water consumption is only for domestic purpose. No process or manufacturing is taking place.</li> <li>• Sewage will be collected in septic tank, which will be emptied regularly by contractor.</li> <li>• Storm water drainage system.</li> </ul>
10.	Air	<ul style="list-style-type: none"> <li>• Emission of air pollutants like CO, SO<sub>2</sub>, NO<sub>x</sub> from vehicles, heavy machineries and DG sets.</li> </ul>	<ul style="list-style-type: none"> <li>• Cargo is handled in closed containers. In the Multi cargo berth only green cargo are handled.</li> </ul>

			<ul style="list-style-type: none"> <li>• Regular servicing and maintenance of DG set and vehicles are carried out.</li> <li>• Air quality is regularly monitored.</li> </ul>
11.	Noise and Vibration	<ul style="list-style-type: none"> <li>• Operation of heavy machineries will result in generation of noise and vibration.</li> </ul>	<ul style="list-style-type: none"> <li>• Ear muffs are provided for workers.</li> </ul>
12.	Marine Environment	<ul style="list-style-type: none"> <li>• Contamination of marine water and bottom sediment due to discharge/disposal of untreated sewage/garbage from the ships/port area into the marine environment.</li> </ul>	<ul style="list-style-type: none"> <li>• No garbage is disposed off into the sea. The same is collected by the port and disposed off.</li> </ul>
13.	Biological <ul style="list-style-type: none"> <li>• Flora</li> <li>• Fauna</li> </ul>	<ul style="list-style-type: none"> <li>• Disturbance due to increase in noise.</li> </ul>	<ul style="list-style-type: none"> <li>• The activities do not create any disturbance to flora and fauna.</li> <li>• No operations of heavy machinery.</li> </ul>
14.	Socio-Economic	<ul style="list-style-type: none"> <li>• Employment opportunity.</li> </ul>	<ul style="list-style-type: none"> <li>• Generation of Employment opportunity.</li> </ul>
15.	Occupational Health and Safety	<ul style="list-style-type: none"> <li>• Storage of materials and handling.</li> </ul>	<ul style="list-style-type: none"> <li>• Materials are stored in either closed shed or in closed containers.</li> <li>• Usage of personal protective equipment like dust mask and safety goggle.</li> <li>• Safety training.</li> </ul>



**TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

From

To

D.Balasubramanian, M.Sc., B.Ed.,  
Deputy Chief Scientific Officer,  
District Environmental Laboratory, Manali  
Tamil Nadu Pollution Control Board,  
9501, Poonazhale High Road,  
Arumbakkam,  
Chennai - 600 106

**M/s. Ennore Bulk Terminal Pvt Ltd.,**  
Formerly M/s. Chettinad International Bulk  
Terminal Pvt Ltd.,  
SF No. 46 Puzhuthiyakkam Village,  
Ponneri Taluk, Thiruvallur Dist.,  
Chennai - 600 120

Lr No. TNPC Bd/DLE/MNL/Air Survey/E, No.10/A/24-25, Dt. 12.07.2025

Sir,

Sub: Firming up of Report of Analysis of Ambient Air Quality +  
Stack Monitoring + Ambient Noise Level Survey - Reg

- Re: 1. This office Lr.No. TNPC Bd/DLE/MNL/AQS/SM/NL/SF.No.10-A/2024-25 dt. 23.05.2024  
2. This office Lr.No. TNPC Bd/DLE/MNL/AQS/SM/NL/SF.No.10-A/2024-25 dt. 11.12.2024  
3 Your Lr.No.Nil  
4 Cash Receipt No. 127 dt.26.06.2024 Rs.65,450/-  
5 Cash Receipt No. 254 dt.27.12.2024 Rs.11,950/-

----

I am herewith sending the Report of Analysis of Ambient Air Quality + Stack Monitoring + Ambient Noise Level Survey conducted in the vicinity of your industry **M/s.Ennore Bulk Terminal Pvt Ltd.,** Ponneri Taluk, Thiruvallur Dist., Chennai - 120 on **11.12.2024** with an invoice for a sum of **Rs.77,400/-** (Rupees Seventy Seven Thousand Four Hundred only) towards the above survey / analytical charges, and the same has been adjusted vide reference (3) cited

Kindly acknowledge the receipt of the above without fail.

  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali

Encl.: As above.

Copy submitted to

1. The District Environmental Engineer, TNPC Bd, Guddalur for favour of kind information please
2. Copy to file

**TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

**AMBIENT AIR QUALITY SURVEY – Report of Analysis**Report No. 59/AQS/2024/25 Date: 02.01.2025

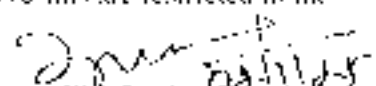
1. Name of the Industry : **M/s.Emmore Bulk Terminal Pvt.Ltd.,**  
 2. Address of the Industry : **Ponner, Taluk, Thiruvallur DC, Chennai - 600 120.**  
 3. Date of Survey : **11.12.2024**  
 4. Duration of Survey : **8 Hours / 24 Hours**  
 5. Category : **Red / Orange / Green / Large / Medium / Small**  
 6. Land use classification : **Industrial / Commercial / Residential / Sensitive**

Meteorological Conditions					
Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
Weather Condition	27	29	Rain Fall (mm)	79	88
Predominant Wind Direction	Partially Cloudy		Mean Wind Speed (km/hr)	Nil	
	Nil - SW			18.2	

**Ambient Air Quality Survey Results**

Sl. No	Location	Direction	Distance (m)	Height from G.L. (m)	Pollutants Concentration (microgram / m <sup>3</sup> )			
					PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>
1	On top of platform near Himast No. IV	NE	240	3.0	37	70	11	16
2	On top of platform near Himast No. III	SE	240	3.0	--	74	15	18
3	On top of platform near Admin	SW	200	3.0	40	84	18	27
4	On top of platform near Main Gate	W	200	3.0	--	80	16	24
5	On top of platform near Himast No. VII	NW	180	3.0	--	78	15	23

Note: \* With respect to major emission sources. The analytical results are restricted to the sampling period of **8 hrs/24hrs**

  
**Deputy Chief Scientific Officer**  
**District Environmental Laboratory**  
**Tamil Nadu Pollution Control Board**  
**Manali**

Test Performed	Test Method
PM <sub>10</sub>	IS 5182 : (Part 23) : 2006
SO <sub>2</sub>	Modified West - Gaeke : IS 5182 : (Part 2) : 2001 RA: 2012
NO <sub>2</sub>	Jacobs - Hochheiser : IS 5182 : (Part 6) : 2006 RA: 2012



# **TAMILNADU POLLUTION CONTROL BOARD**

**District Environmental Laboratory - Manali**

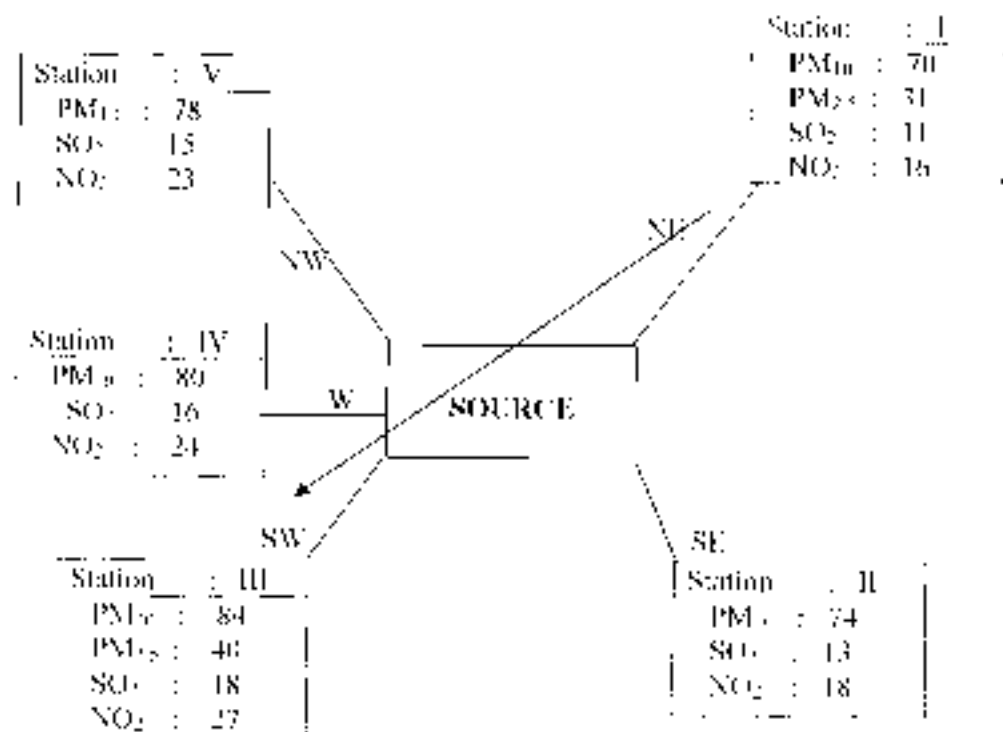
## **AMBIENT AIR QUALITY SURVEY**

**Schematic Diagram Showing Location of Sampling**

Report No. **SP/AAQ/SM-2024-25**

Name and Address of the Industry : **M/s. Ennore Bulk Terminal Pvt Ltd.,  
Ponneri Tank, Thiruvanthur Dt., Chennai - 600 129**

Date of Survey : **11.12.2024**



Note: \* With respect to major emission sources. The analytical results are restricted to the sampling period of **8 hrs/24hrs**

### **Meteorological Conditions:**

Predominant Wind Direction	NW
Wind Speed (km/hr)	18.2
Weather Condition	Partially Cloudy
Rainfall	Nil

*[Signature]*  
**Deputy Chief Scientific Officer**  
**District Environmental Laboratory**  
**Tamil Nadu Pollution Control Board**  
**Manali**



## **TAMIL NADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

### **STACK MONITORING SURVEY – Report of Analysis**

**Report No.** 50/SM/2024/25

**Date:** 07.01.2025

1. Name of the Industry : **M/s. Karmore Bulk Terminal Pvt Ltd.,**  
 2. Address of the Industry : **Ponneri Taluk, Thiruvallur Dist., Chennai - 600120.**  
 3. Date of Survey : **11.12.2024**  
 4. Type of Industry : **Coal Chemical/Sugar/Paper & Pulp/  
 Power plant / Textile Processing / Multi cargo container terminal**

#### **Stack Monitoring Survey Results**

Sl. No.	Stack attached to	Fuel used	Stack Temp. °K	Velocity in m/sec	Discharge rate in Nm <sup>3</sup> /hr	Pollutants (mg./Nm <sup>3</sup> )		
						PM	SO <sub>2</sub>	NO <sub>x</sub>
1	DC - 500 KVA	Diesel	486	25.4	1784	32	20	271

	Test Performed	Test Method
PM10	IS 11255 (Part 1)	1985
SO <sub>2</sub>	IS 11255 (Part 2)	1985
NO <sub>x</sub>	IS 11255 (Part 3)	2005

  
**Deputy Chief Scientific Officer**  
 District Environmental Laboratory  
 Tamil Nadu Pollution Control Board  
 Manali



# **TAMIL NADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Mandali

## **Stack Details**

**Report No. 59/AAP/SM/2024-25**

1. Name and Address of the Industry : **MS. Ennore Bulk Terminal Pvt Ltd.,**  
Ponneri Dock, Thiruvallur Dist., Chennai - 600 120.

2. Date of Survey : **11.12.2024**

Sl. No.	Particulars	
1.	Stack attached to	DCr
2.	Details of process stack	DCr - 500 KVA
3.	Height from G Level in (m)	8.7
4.	Diameter in (m)	0.2
5.	Port hole height from Ground Level in (m)	7
6.	Fuel Used (with % Sulphur content)	Liquid
7.	Fuel Consumption rate per hr (mention units)	---
8.	Type of Stack and capacity	Round
9.	Production on 11.12.2024	Import Outward- 8,491 MT Export Inward -6,549 MT
10.	APC Measures provided	Stack Provided
11.	APC functional status	Functioning
12.	Ambient temp in °K	302
13.	Temp of flue gas in °K	486
14.	Velocity of flue gas in m/sec	25.4
15.	Volume of flue gas sampled in m <sup>3</sup>	1,017
16.	Gaseous Discharge rate per day in Nm <sup>3</sup> /hr	1784

*[Signature]*  
**Deputy Chief Scientific Officer**  
**District Environmental Laboratory**  
**Tamil Nadu Pollution Control Board**  
**Mandali**



**TAMIL NADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

**STACK MONITORING SURVEY - Additional details**

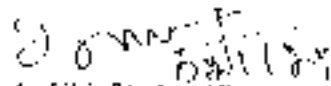
Report No. 59-SM/2024-25

Date: 02.01.2025

1. Name of the Industry : **M/S. Ennore Bulk Terminal Pvt Ltd.,**
2. Address of the Industry : **Ponneri Taluk, Thiruvallur Dist., Chennai - 600 129**
3. Date of Survey : **11.12.2024**
4. Type of Industry : **Coal/Chemical/Sugar/Paper & Pulp/  
Power plant / Textile Processing/ **Multi cargo container terminal****

**Stack Monitoring Additional details**

Sl. No.	Details of stack mentioned in the Air Consent order	Details of stack available and in working condition	Details of stack for which stack Emission sampling have been done	Justification for the left out of stack Emission Sampling
1.	DC - 500 KVA	Working	Sampling Done	

  
**Deputy Chief Scientific Officer**  
**District Environmental Laboratory**  
**Tamil Nadu Pollution Control Board**  
**Manali**



## TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

### AMBIENT SOURCE NOISE LEVEL SURVEY Report of Analysis

Report No. 59/NLS/2024-25

Date 02.01.2025

1. Name of the Industry

T.M.K. Ennore Bulk Terminal Pvt Ltd.,

2. Address of the Industry

Ponneri Back, Thiruvallur Dist., Chennai - 600 130

3. Date of Survey

11.12.2024

Category URL

Land use Classification

Industrial

Type of Survey

Ambient/Source

Time of Survey

Day

Meteorological conditions

Calm/Windy/Rainy

Windy

#### Logging Parameters

Instrument Used

CESVA Model SC310

Serial No

T243103

Logging Interval

10 Minutes each point

Measuring Range

50-110 dB(A)

Weighting

"A"

Peak

"C"

Time Weighting

FAST

Sound Intensity

RANDOM

Time in hrs

14.00 - 15.30

#### Report of Noise Level Monitoring

Sl. No	Location	Duration (min)	Distance (m)	Direction	Sound Level - dB(A)		
					Leq	Min	Max
1	Near High Mast No. IV	10	240	NE	61.1	55.8	72.1
2	Near High Mast No. III	10	340	SE	70.3	66.8	79.7
3	Near Main Gate	10	200	W	69.8	62.9	80.6
4	Near Admin	10	200	SW	58.9	52.7	69.1
5	Near High Mast VII	10	180	NW	64.3	58.2	73.8

**Note:** Leq value is the average energy for the measured period

*[Signature]*  
**Deputy Chief Scientific Officer**  
**District Environmental Laboratory**  
**Tamil Nadu Pollution Control Board**  
**Manali**



**TAMIL NADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

**INFERENCE REPORT ON A.A.Q.S./ S.M.**

1. Name of Industry : **M/s. Ennore Bulk Terminal Pvt Ltd.,**  
Ponner Taluk, Thiruvallur Dist. Chennai - 600 130
2. Polluter Category : **Red Large**
3. Date of A.A.Q. Survey : **11.12.2024**
4. Predominant Wind Direction : **NE - SW**
5. Weather condition : **Partially Cloudy**

**STATUS OF POLLUTANTS LEVEL**

**I. AMBIENT AIR QUALITY :-**

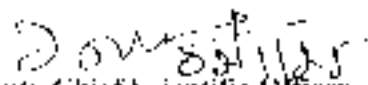
1. Total No. of A.A.Q. stations monitored : **5**
2. No. of A.A.Q. stations in which Pollutants Level exceeded the Boards standards : **Nil**

**Maximum and Minimum values of Pollutants Level observed:**

Sl. No.	POLLUTANT	Values in microgram/m <sup>3</sup>		BOARD'S STANDARD (As per consent order)
		Maximum	Minimum	
1.	PM <sub>10</sub>	54	70	100
	PM <sub>2.5</sub>	40	31	60
2.	<b>GASEOUS POLLUTANTS:-</b>			
	(i) SO <sub>2</sub>	18	11	80
	(ii) NO <sub>2</sub>	27	16	80

**II. STACK MONITORING:-**

1. Total No. of Stacks Monitored : **1**
2. No. of Stacks at which Pollutants level Exceeded the Boards standards : **Nil**

  
**Deputy Chief Scientific Officer**  
**District Environmental Laboratory**  
**Tamil Nadu Pollution Control Board**  
**Manali**



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali  
**BILL**

**Report No. 59/AAQ/SM/2024-25**

Bill No. 59/2024-25  
Date: 02.01.2025

To  
**M/s.Emore Bulk Terminal Pvt Ltd.,**  
Ponneri Taluk, Thiruvallur Dt., Chennai - 600 120.

- Ref: 1. B.PMs.No.6 Dt.31.03.2009  
2. This office L.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.10-A/2024-25 dt.24.05.2024  
3. This office L.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.10-A/2024-25 dt.11.12.2024  
4. Your L.No.Nil  
5. Cash Receipt No. 127 dt.26.06.2024 Rs.65,450/-  
6. Cash Receipt No. 254 dt.27.12.2024 Rs.11,950/-

\*\*\*\*\*

Sl. No.	Description	Rate (Rs.)	No. of Stations/Stacks	Amount (Rs.)
1.	<b>SAMPLING CHARGES:</b>			
	(i) Ambient Air Quality monitoring, PM <sub>10</sub> ,	3500	5	17,500
	(ii) Source Emission Monitoring (PM, SO <sub>2</sub> , NO <sub>x</sub> etc.,)	17800	1	17,800
	(iii) Ambient Air Quality monitoring, PM <sub>2.5</sub>	3500	2	7,000
2.	<b>ANALYTICAL CHARGES:</b>			
	(i) Ambient Air Samples PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (each Rs. 1450/-)	3600	4	18,450
	(ii) Ambient Air Samples PM <sub>2.5</sub>	1900	2	3,800
	(iii) Source Emission Samples PM, SO <sub>2</sub> , NO <sub>x</sub> (each Rs.1450/-)	4350	1	4,350
3.	<b>AMBIENT NOISE MONITORING CHARGES:</b>			
	(i) For first 5 stations	1400	5	7,000
	<b>Transportation charges</b>			<b>1500</b>
	<b>Total</b>			<b>77,400</b>
	Vide O.S. D.D./GMP Our CR.No. 127 & 254 dated 26.06.2024 & 27.12.2024			<b>77,400</b>
	<b>Balance</b>			<b>Nil</b>

*Received original*  
*M/s.Emore Bulk Terminal Pvt Ltd.*  
*03.01.*

*[Signature]*  
**Deputy Chief Scientific Officer**  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016826F

Report No : QEN250326008-01

Page 1 of 1

Report Date : 31 Mar 2025

**Customer Name** : M/s. Ennore Bulk Terminal Pvt Ltd  
**Customer Address** : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Name** : Ambient Air Quality Monitoring **Sampling Date & Time** : 24 to 25 Mar 2025  
02.50 pm to 02.50 pm  
**Sample Description** : Ambient Air Quality Monitoring **Sample Received on** : 26 Mar 2025  
**Reference** : Test Request Form Dated: 24.03.2025 **Test Started on** : 27 Mar 2025  
**Sample Drawn By** : Laboratory **Test Completed on** : 31 Mar 2025  
**Sample Location** : Near Ware House - 3 (North West)  
**Sampling Procedure** : IS 5182  
**Relative Humidity** : 57% **Ambient Temperature** : 34°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	22.1	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	39.1	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	28.5	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	10.6	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	1.23	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.02	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	2.98	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

M. Sarathkumar  
Authorized Signatory-Chemical

Laboratory Address: 29/6, Thimavallur High Road, Puduchotram Post, Thirumachilai Vin, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016827F

Page 1 of 1

Report No : QEN250326008-02

Report Date : 31 Mar 2025

**Customer Name** : M/s. Ennore Bulk Terminal Pvt Ltd  
**Customer Address** : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Name** : Ambient Air Quality Monitoring  
**Sampling Date & Time** : 24 to 25 Mar 2025  
03.00 pm to 03.00 pm  
**Sample Description** : Ambient Air Quality Monitoring  
**Sample Received on** : 26 Mar 2025  
**Reference** : Test Request Form Dated: 24.03.2025  
**Test Started on** : 27 Mar 2025  
**Sample Drawn By** : Laboratory  
**Test Completed on** : 31 Mar 2025  
**Sample Location** : Near H1 Mast - 4 (North East)  
**Sampling Procedure** : IS 5182  
**Relative Humidity** : 57%  
**Ambient Temperature** : 34°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	21.5	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	58.3	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	27.9	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	9.8	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	0.68	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.05	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	3.11	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

M.S.

M. Sarathkumar  
Authorized Signatory-Chemical

Laboratory Address: 396, Thiruvallur High Road, Puzhachattam Post, Thiruvallur District, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable cement samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental sensitive samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

Page 1 of 1

ULR - TC611825000016828F

Report No : QEN250326008-03

Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Bulk Terminal Pvt Ltd  
Customer Address : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 24 to 25 Mar 2025  
03.15 pm to 03.15 pm  
Sample Description : Ambient Air Quality Monitoring Sample Received on : 26 Mar 2025  
Reference : Test Request Form Dated: 24.03.2025 Test Started on : 27 Mar 2025  
Sample Drawn By : Laboratory Test Completed on : 31 Mar 2025  
Sample Location : Near Admin Building - (South West)  
Sampling Procedure : IS 5182  
Relative Humidity : 57% Ambient Temperature : 34°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	19.7	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	57.6	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	26.9	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	9.3	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	1.02	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.01	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	5.84	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

M. Sarathkumar

Authorized Signatory-Chemical

Laboratory Address: 39/5, Thiruvallur High Road, Puduchattam Post, Thiruvazhaisai Via, Ponnambali Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016829F

Report No : QEN250326008-04

Page 1 of 1

Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Bulk Terminal Pvt Ltd  
 Customer Address : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
 Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 24 to 25 Mar 2025  
 03.25 pm to 03.25 pm  
 Sample Description : Ambient Air Quality Monitoring Sample Received on : 26 Mar 2025  
 Reference : Test Request Form Dated: 24.03.2025 Test Started on : 27 Mar 2025  
 Sample Drawn By : Laboratory Test Completed on : 31 Mar 2025  
 Sample Location : Bulk Container Area (South East)  
 Sampling Procedure : IS 5182  
 Relative Humidity : 57% Ambient Temperature : 34°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	21.4	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	59.6	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	28.8	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	10.5	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	0.85	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.03	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	3.63	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

MSC

M. Sarathkumar  
Authorized Signatory-Chemical

Laboratory Address: 39/5, Thiruvallur High Road, Paduchattam Post, Thiruvazhissai Via, Ponnasallai Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable semi-liquid samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental resistant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016830F

Page 1 of 1

Report No : QEN250326008-05

Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Bulk Terminal Pvt Ltd  
Customer Address : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Name : Ambient Noise Level Monitoring  
Sample Description : Ambient Noise Level Monitoring  
Reference : Test Request Form Dated: 24.03.2025  
Sample Drawn By : Laboratory  
Sample Location : Near Security Main Gate  
Sampling Procedure : IS 9989

Sampling Date : 25 Mar 2025  
Sample Received on : 26 Mar 2025  
Test Started on : 27 Mar 2025  
Test Completed on : 31 Mar 2025

### TEST RESULTS

Sl. No	Location	Noise Level dB (A)		CPCB Standards (Industrial Area) For Noise in Leq dB (A)	
		Day Time	Night Time	Day Limit	Night Limit
1	Near Security Main Gate	70.8	67.4	75 dB (A)	70 dB (A)

Conclusion : The above tested Sample Conforms to the CPCB Standards for the above tested Locations.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

M. Sarathkumar  
Authorized Signatory-Chemical

Laboratory Address: 398, Thiruvallur High Road, Paduchathan Post, Thirumazhisai Via, Poornamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825009016831F  
Report No : QEN250326008-06

Page 1 of 1  
Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Bulk Terminal Pvt Ltd  
Customer Address : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Description : Stack Emission Monitoring  
Reference : Test Request Form Dated: 24.03.2025  
Sample Drawn By : Laboratory  
Sample Location : DG Set 500 KVA (Sub Station - 1)  
Sampling Procedure : IS 11255 & SMSLA/EN/SOP/017

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Limit as per CPCB Specification
<b>Chemical</b>					
1	Carbon Dioxide as CO <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	4.3	--
2	Carbon Monoxide as CO	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.34	3.5 Max
3	Nitrogen Oxides as NO <sub>x</sub>	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.31	0.40 Max
4	Oxygen as O <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	15.1	--
5	Particulate Matter	IS 11255 (Part 01) - 1985 (Reaffirmed 2019)	g/kw-hr	0.009	0.02 Max
6	Stack temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	K	409	--
7	Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 02) - 1985 (Reaffirmed 2019)	mg/Nm <sup>3</sup>	26.9	--
8	Velocity	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	m/s	12.07	--
9	Volume of Gas Discharged	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	Nm <sup>3</sup> /hr	2231	--
10	Ambient Temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	°C	33	--
11	Stack Diameter	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	0.3	--
12	Port hole Height from 'G' level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	5	--
13	Stack Height from 'G' Level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	7	--

Conclusion : The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

M. Sarathkumar  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Pudukottam Post, Thirumudhurai Via, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements. While perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.

# **FIRE SERVICE LICENSE**

(Under Section 13 of the Tamil Nadu Fire Service Act 1985 and with  
Tamil Nadu Fire Service Rules 1990 Appendix III)

R.C.No. 941 /B2/2025

TNSWP NO: 6400/2025

DATE: 23.01.2025

LICENSE is here by granted under section 13 of the Tamil Nadu Fire Service Act 1985, for CARGO HANDLING OTHER THAN COAL, IRON ORE & OIL (UNLOADING & LOADING FROM SHIP) (GROUND + 1 FLOOR ONLY) in the name of M/s. ENNOR BULK TERMINAL PVT LTD Within the jurisdiction of Ennor panchayat at Ennor Port Camp us-Kamarajar Port Ltd, Puzhudivakkam Village, Vallur Post, Ponneri Taluk, Thiruvallur District, Chennai-600120. with Total Area of 135000 Sq,m with Subject to the condition mentioned below noted there on and such other conditions as may be prescribed. The above premises inspected by Assistant District Officer Chennai Suburban, Mr. K. PONMARIYAPPAN on 23.01.2025.

## **CONDITIONS**

As per TamilNadu Fire Service Act 1985 Section 13 of Chapter II and appendix V of this Act.

1. This License is Valid For One year From The Date of Issue.
2. Regular License has to be obtained from the competent authority.
3. The Following Fire & Life Safety Systems / Arrangements provided in the building should be kept in good working condition always.
  - I. Portable Fire Extinguisher – 12 No's
  - II. Hose Reel System -16 No's
  - III. Fire Hydrant & Fire Detecting and Alarm System Provided.
  - IV. OHT with capacity of 2000 Litter and SUMP with capacity of 110000 Litter Provided
4. If there is any deviation from the Govt. Rule and Act the LICENSE issued will stand Canceled.
5. Firefighting trained employee must be available in the Premises to Operate the Equipment.

(Office seal with date)



DISTRICT OFFICER  
FIRE & RESCUE SERVICES  
CHENNAI SUBURBAN DISTRICT  
CHENNAI – 600 058

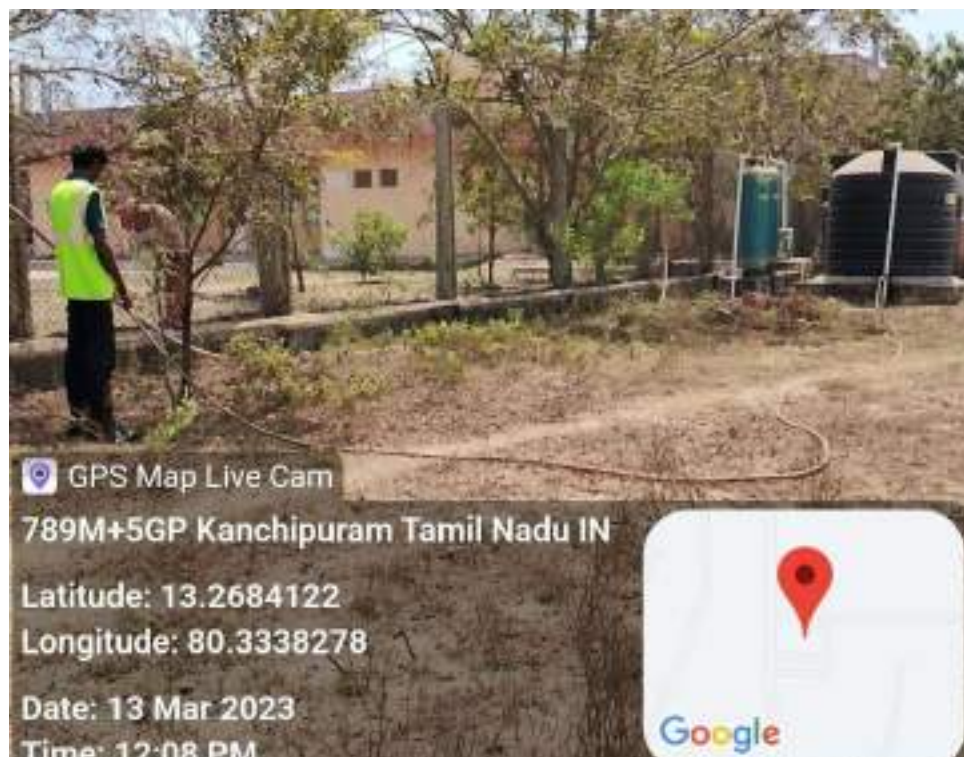
TO,  
M/S. ENNOR BULK TERMINAL PVT LTD  
ENNOR PORT CAMP US-KAMARAJAR PORT LTD,  
PUZHUDIVAKKAM VILLAGE, VALLUR POST,  
PONNERI TALUK, CHENNAI-600120.



Mechanical sweeper is deployed to clean the area/roads if any spillage is occur during in-house transportation of cargoes



Green belt has been developed inside and the periphery of the Terminal



20KLD capacity Sewage treatment Plant is installed and it is in operation. Treated water used for Green belt Development



Fire Fighting system are in place around the Warehouse

**FORM –V**

(See rule 14 of Environment (Protection) Rules, 1986)

Environmental Statement for the Half yearly ending with 30th September 2024

**PART - A**

i	Name and Address of the owner/occupier of the Industry operation or process	:	Mr. K. Sameer Bhatnagar Director, S.F. 143, Puzhidhivakkam Village, Near NCTPS Quarters, Vallur - Post, Chennai -600 120
ii	Industry Category	:	Primary : Red Secondary : 1065-Ports and Harbour, Jetties and Dredging Operations.
iii	Year of Establishment	:	2017
iv	Date of the last environmental statement submitted	:	

**PART- B****Water and Raw Material Consumption:****i Water consumption in m3/d**

Process : NIL  
Cooling : -  
Domestic : 20

Sl. No.	Name of Products	Process water consumption per unit of products (KL/MT)	
		During the previous	During the current financial Year
1	It is the Multi cargo container terminal for handling of clean cargoes like granite, timber logs, grains, bagged cargoes including sugar, cobble stone, steel cargoes, project cargo	0.0018KL	0.0014KL

**ii Raw Material consumption**

Name of Materials*	Name of the Products	Consumption of raw material per unit of output	
N/A	N/A	N/A	N/A

The unit does not undergo any manufacturing process. The water consumed is mainly for Firefighting, greenbelt development, domestic and maintenance, etc.,

**PART- C****Pollution discharged to environment/unit of output  
(Parameter as specified in the consent issued)**

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	ZERO DISCHARGE	ZERO DISCHARGE	ZERO DISCHARGE
b) Air	DG 500 KVA – 1 Nos. (Used for Lighting)	Report attached	

**PART- D**  
**HAZARDOUS WASTE**  
(as specified under Hazardous Wastes (Management & Handling Rules, 1989))

Sl. No.	Hazardous Wastes	Total Quantity (Kg)	
		During the previous financial year	During the current financial year
1	From Process	N/A	N/A
2	From Pollution Control Facilities	N/A	N/A

**PART- E**  
**SOLID WASTES**

Sl. No.	Solid Wastes	Total Quantity (Kg)	
		During the previous financial year	During the current financial year
a	From Process	N/A	N/A
b	From Pollution Control Facilities	N/A	N/A
c	Quantity recycled or re-utilised within the unit.	N/A	N/A

**PART- F**

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

**PART- G**

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production

- \* • All the domestic wastewater being generated is treated at existing sewage treatment plant and the treated water is being re-used for gardening/horticulture purpose.
- \* Sewage Treatment Plant (STP) is in continuous operation and the treated effluent water quality is meeting the TNPCB norms.
- \* The unit is continuously developing and maintaining Greenbelt within the coal stack yard.

**PART-H**

Additional measures/investment proposal for environmental protection including abatement of pollution.

**PART-I**

**MISCELLANEOUS:**

Any other particulars in respect of environmental protection and abatement of pollution.

**REPORT ON  
COMPREHENSIVE ENVIRONMENTAL MONITORING  
FOR**

**ADANI ENNORE CONTAINER TERMINAL CONTAINER PRIVATE LIMITED  
(AECTPL)  
(WITHIN KAMARAJAR PORT LIMITED)  
VALLUR POST, PONNERI TALUK, CHENNAI - 600 056.**

**October 2024 - March 2025**



**PREPARED BY:**

**M/S. SV ENVIRO LABS & CONSULTANTS,  
(MoEF & CC Recognized, NABL & NABET Accredited,  
ISO 9001 & 45001 Certified Laboratory),  
B1, Block-B, IDA, Autonagar,  
Visakhapatnam - 530012.**

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## 1.0 INTRODUCTION

M/s. Adani Ennore Container Terminal Pvt Ltd (AECTPL) located inside Kamarajar Port, Ennore is operating container berth and handling containerized Import/Export cargoes.

AECTPL have engaged M/s. SV ENVIRO LABS AND CONSULTANTS, an Accredited Consultant by NABL to carry out the Comprehensive Environmental monitoring studies in AECTPL continuously as per the Statuary Requirement. This report covers the monitored environmental data for the Period of Oct 2024 to March 2025.

## 1.1 LOCATION OF THE PROJECT

The Project site is located at Port area inside the Kamarajar Port Limited.

The location map is shown in Fig - 1

**Fig – 1 – Location Map**



## 2.0 SCOPE OF WORK

The scope of Comprehensive Environmental monitoring includes the following environmental components;

1. Meteorological data
2. Ambient Air Quality
3. Ambient Noise Level
4. Marine Sampling
5. Treated STP / ETP Water.
6. Potable water
7. DG Set Emission

The parameters covered under the scope for each of the above attributes are given below:

### SCOPE OF WORK

S.No	Attribute	Scope	Frequency
1.	Meteorological Data	Collection of micrometeorological data on hourly basis by installing an auto weather monitoring station at plant site covering the following parameters: <ul style="list-style-type: none"> <li>• Wind speed</li> <li>• Wind direction</li> <li>• Rainfall</li> <li>• Relative Humidity</li> <li>• Temperature</li> <li>• Barometric pressure</li> <li>• Solar Radiation</li> </ul>	Daily
2.	Ambient Air Quality	Sampling of ambient air at 03 stations for analysing the following parameters: <ul style="list-style-type: none"> <li>• PM10</li> <li>• PM2.5</li> <li>• SO<sub>2</sub></li> <li>• NO<sub>2</sub></li> <li>• CO</li> <li>• Lead</li> <li>• Ozone</li> <li>• Ammonia</li> <li>• Benzene</li> <li>• Benzo Pyrene</li> <li>• Arsenic</li> <li>• Nickel</li> </ul>	Weekly Twice
3.	Ambient Noise	Collection of Noise levels on hourly basis at 3 locations <ul style="list-style-type: none"> <li>• L<sub>eq</sub> – Day (Max and Min)</li> <li>• L<sub>eq</sub> – Night (Max and Min)</li> </ul>	Monthly Once

4.			
4a.	Surface and Bottom Water	<p>Collection of Surface and Bottom Water analysed for -1location</p> <ul style="list-style-type: none"> <li>• Temperature</li> <li>• pH @ 25°C</li> <li>• Total Suspended Solids</li> <li>• BOD at 27 °C for 3 days</li> <li>• Dissolved oxygen</li> <li>• Salinity at 25 °C</li> <li>• Oil &amp; Grease</li> <li>• Nitrate as No<sub>3</sub></li> <li>• Nitrite as No<sub>2</sub></li> <li>• Ammoniacal Nitrogen as N</li> <li>• Total phosphates as PO<sub>4</sub></li> <li>• Total Nitrogen,</li> <li>• COD</li> <li>• Turbidity</li> <li>• Total Iron as Fe</li> <li>• Colour</li> <li>• Odour</li> <li>• Mercury as Hg</li> <li>• Cadmium as Cd</li> <li>• Total Chromium as Cr</li> <li>• Copper as Cu</li> <li>• Lead as Pb</li> <li>• Nickel as Ni</li> <li>• Iron</li> <li>• Zinc</li> <li>• Particulate Organic Carbon</li> <li>• Petroleum Hydrocarbons</li> </ul>	Monthly Once
4b.	Marine Sediment	<p>Collection of Marine sediment analyzedfor-1 location</p> <ul style="list-style-type: none"> <li>• pH</li> <li>• Organic Matter</li> <li>• Moisture Content</li> <li>• Conductivity</li> <li>• Iron</li> <li>• Sodium</li> <li>• Copper</li> <li>• Nickel</li> <li>• Zinc</li> <li>• Manganese</li> <li>• Lead</li> <li>• Boron</li> <li>• Phosphate</li> <li>• Chloride</li> <li>• Sulphate</li> <li>• Sulphide</li> <li>• Pesticide</li> <li>• Potassium</li> <li>• Total Chromium</li> <li>• Petroleum Hydrocarbon</li> <li>• Aluminium</li> <li>• Total Nitrogen</li> <li>• Organic Nitrogen</li> <li>• Phosphorus</li> </ul>	Monthly Once

		<ul style="list-style-type: none"> <li>• Texture</li> </ul>	
4c.	Phytoplankton Monitoring	<ul style="list-style-type: none"> <li>• Total Count</li> <li>• No. of species</li> <li>• Major Species</li> </ul>	Monthly Once
4d.	Zooplankton Monitoring	<ul style="list-style-type: none"> <li>• Total Count</li> <li>• No. of species</li> <li>• Major</li> </ul>	Monthly Once
4e.	Microbiological Monitoring	<ul style="list-style-type: none"> <li>• Pseudomonas aeruginosa</li> <li>• Streptococcus Faecalis</li> <li>• Total Coliform</li> <li>• Faecal Coliform</li> <li>• E.Coli</li> <li>• Total viable count</li> <li>• Salmonella</li> <li>• Shigella</li> <li>• Vibrio Cholera</li> <li>• Vibrio Parahaemolyticus</li> </ul>	Monthly Once
4f.	Biological Monitoring	<ul style="list-style-type: none"> <li>• primary productivity</li> <li>• Chlorophyll-a</li> <li>• Phaeopigment</li> <li>• Total Biomass</li> </ul>	Monthly Once
4g.	Phytobenthos Monitoring data	<ul style="list-style-type: none"> <li>• Fungus</li> <li>• Total Count</li> <li>• No. of species</li> <li>• Diversity Index</li> <li>• Major species</li> </ul>	Monthly Once
4h.	Total Fauna Monitoring	<ul style="list-style-type: none"> <li>• Name of phylum</li> <li>• Class</li> <li>• Number of Individuals encountered</li> <li>• Total no. of species encountered</li> <li>• Total fauna</li> </ul>	Monthly Once
5.	STP Treated Water	Collection of STP Inlet and Treated water analysed for – 11 location <ul style="list-style-type: none"> <li>• pH</li> <li>• TSS</li> <li>• BOD</li> <li>• Faecal Coliforms</li> <li>• COD</li> <li>• TDS</li> <li>• Oil &amp; Grease</li> <li>• Cl</li> <li>• SO<sub>4</sub></li> </ul>	Monthly Once
6.	Potable Water analysis	Collection of Drinking water sample at 01 location. Analysing As per IS 10500: 2012 – 36 Parameters	Monthly Once
7.	DG Set Emissions	Sampling of Emission at 02 stations for analysing the following parameters: <ul style="list-style-type: none"> <li>• PM</li> <li>• Carbon Monoxide</li> <li>• NO<sub>x</sub> – NO<sub>2</sub></li> <li>• SO<sub>2</sub></li> </ul>	Monthly Once

### 3. METHODOLOGY

Methodologies adopted for sampling and analysis for each of the above parameters are detailed below

1	Meteorological parameters	
	Online Met station	
2	Ambient Air Quality	
	Parameters	Method
	Respirable Suspended Particulate Matter (PM10)	IS5182Part23:2006(Reaff.2017)
	Particulate Matter PM2.5	IS5182Part24:2019
	Sulphur dioxide as SO <sub>2</sub>	IS5182 Part02:2001(Reaff.2017)
	Oxides of Nitrogen as NO <sub>2</sub>	IS5182 Part06:2006(Reaff.2017)
	Lead as Pb	IS5182 Part22:2004(Reaff.2019)
	Arsenic as As	CPCB Guidelines
	Nickel as Ni	IS5182Part26:2020
	Carbon monoxide as CO	IS5182Part10:1999(Reaff.2019)
	Ozone as O <sub>3</sub>	IS5182Part09:1974(Reaff.2017)
	Ammonia as NH <sub>3</sub>	IS5182Part25:2018
	Benzene (α) pyrene	IS5182 Part12: 2004 (Reaff.2017)
	Benzene as C <sub>6</sub> H <sub>6</sub>	IS5182Part11:2006(Reaff.2019)
3	Ambient Noise Monitoring	
	L <sub>eq</sub> Day& Night	Instrument Manual, SV/LAB/SOP/Noise/001
4	Marine Sampling	
	Surface and Bottom Water	APHA Methods 24th Edition, 2023 Standard Methods for examination of Water and Wastewater and IS 3025 & USEPA Test Methods
	Sea Sediment	
	Phytoplankton Monitoring	
	Zooplankton Monitoring	
	Microbiological Monitoring	
	Primary Productivity Monitoring	
	Phytobenthos Monitoring data	
Total Fauna Monitoring		
5	STP Water Analysis	
	pH, TSS, BOD, Faecal Coliforms	APHA Methods 24th Edition, 2023 Standard Methods for examination of Water and Wastewater and IS 3025
6	Emission Monitoring	
	PM, Carbon Monoxide, NO <sub>x</sub> – NO <sub>2</sub> , SO <sub>2</sub>	IS 11255 Methods of measurement of emissions from Stationary source
7	New Water Analysis	
	As per IS 10500 : 2012–36 Parameters	APHA Methods 24th Edition, 2023 Standard Methods for examination of Water and Waste water and IS 3025

**4. ENVIRONMENTAL STUDIES – OCT 2024– MARCH 2024.**

<b>S.No</b>	<b>ATTRIBUTE</b>	<b>STUDIES CARRIED OUT</b>
1.	Meteorological parameters	Collection of micrometeorological data at project site on daily basis with hourly frequency
2.	Ambient Air Quality	Collection of ambient air at 4 locations.
3.	STP water	Collection of STP outlet water at two locations
4.	Ambient Noise	Collection of Ambient noise levels for day and night at 4 locations
5.	Drinking Water	Collection of Drinking water at Canteen Building
6.	Marine Water and Marine Sediments	Collection of Marine water and Marine Sediments at Three locations
7.	DG Set Emissions	Collection of DG Set Emissions.

## 1. METEOROLOGICAL DATA

Meteorological data was collected on hourly basis by installing an auto weather monitoring station at Plant site. The report depicted here under presents the data for Oct 2024 – March 2025.

The following parameters were recorded

- Wind speed
- Wind direction
- Temperature
- Pressure
- Relative humidity
- Rainfall

## ANNEXURE - 1 MICROMETEOROLOGY DATA

Oct 2024

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.10.2024 TO 31.10.2024							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>28.8</b>	<b>76.1</b>	<b>11.3</b>	<b>21.8</b>	<b>203.3</b>	<b>1008.6</b>	<b>216.9</b>
<b>Min</b>	<b>25.4</b>	<b>72.1</b>	<b>0</b>	<b>11.5</b>	<b>134.4</b>	<b>1007.1</b>	<b>15.8</b>
<b>Max</b>	<b>30</b>	<b>89.3</b>	<b>52.727</b>	<b>33.5</b>	<b>301.8</b>	<b>1010.1</b>	<b>290.6</b>
01-10-2024	29.5	73.2	10.90	22.3	159.6	1008.2	290.6
02-10-2024	29.7	74.7	5.50	31.7	194.7	1009.1	270.4
03-10-2024	29.6	74.5	0.00	31.3	204.9	1008.8	254.3
04-10-2024	30	74.2	1.20	33.5	203.6	1008.4	285.6
05-10-2024	28.6	76	52.73	30.6	212.4	1008.8	182.2
06-10-2024	28.1	78.6	51.85	21.6	170.7	1008.7	127.5
07-10-2024	28.9	75.9	0.00	18	173.5	1009.6	162.3
08-10-2024	28.7	76.2	0.00	16.6	192.5	1010.1	55.3
09-10-2024	29	75.7	0.00	24.1	187.3	1008.6	219.7
10-10-2024	29.4	74.1	6.80	18	226.4	1007.1	261.6
11-10-2024	28.8	74.6	13.03	20.2	202.6	1007.1	237.6
12-10-2024	28.7	75.5	0.00	24.1	217.8	1007.6	241
13-10-2024	28	78.1	44.35	19.4	247.4	1008.1	226.1
14-10-2024	25.4	89.3	37.33	16.2	301.8	1008.5	15.8
15-10-2024	27	81.4	7.75	11.5	250.4	1008.2	112.3
16-10-2024	28.2	77.2	21.41	19.1	200.6	1007.5	241.3
17-10-2024	29.1	72.1	0.00	23.8	215	1007.3	275.6
18-10-2024	29.3	72.4	0.00	25.6	208.3	1007.8	259.7
19-10-2024	28.7	76	6.40	25.9	209.7	1009.2	166.2
20-10-2024	29.2	75.1	3.20	16.2	168	1009.6	216.6
21-10-2024	29.2	76	4.80	16.2	179.9	1009.7	232
22-10-2024	29	76.2	28.01	16.6	134.4	1009.9	248.3
23-10-2024	29.2	76.5	3.50	18.4	182.4	1009.6	265.8
24-10-2024	28.2	79.3	8.34	25.2	213.4	1009.6	146.8
25-10-2024	28.2	78	6.06	25.6	220.6	1009.6	246.6
26-10-2024	28.3	76.3	0.00	19.1	204.7	1009.5	263.4
27-10-2024	29.1	73.8	0.00	22.3	211.8	1008.1	275.6
28-10-2024	29.3	73.6	0.00	21.2	201.8	1007.5	267.9
29-10-2024	29.5	72.7	0.00	18.7	199	1008.4	242.4
30-10-2024	29.7	72.8	3.90	18	159.7	1009	241.1
31-10-2024	29.2	75.2	6.46	16.2	167.3	1009.7	258

Nov 2024

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.11.2024 TO 30.11.2024							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>30.0</b>	<b>79.2</b>	<b>10.8</b>	<b>23.6</b>	<b>73.0</b>	<b>1009.6</b>	<b>177.0</b>
<b>Min</b>	<b>25.5</b>	<b>68.4</b>	<b>0</b>	<b>14.4</b>	<b>2</b>	<b>1006.6</b>	<b>10.5</b>
<b>Max</b>	<b>33</b>	<b>92.4</b>	<b>45.4</b>	<b>36.4</b>	<b>350.1</b>	<b>1011.2</b>	<b>275.1</b>
01-11-2024	32.0	75	8.44	14.8	133.1	1010.4	246.6
02-11-2024	30.8	76	19.60	19.4	76.6	1011.2	265.3
03-11-2024	30.4	78	19.79	20.5	63.3	1011	255
04-11-2024	31.1	75	13.92	23.8	55.1	1010.2	256.5
05-11-2024	32.5	72	0.00	20.9	51.6	1010.5	275.1
06-11-2024	32.5	71	0.00	17.6	31.9	1010.4	255
07-11-2024	31.0	76	0.00	24.1	2.0	1010.1	197.2
08-11-2024	28.4	85	21.26	18.4	14.8	1010.2	34.2
09-11-2024	31.3	77	1.10	26.6	23.5	1010.2	256.8
10-11-2024	31.8	70	0.00	28.8	19.7	1010.2	273.5
11-11-2024	32.2	72	0.00	25.2	25.3	1009.2	269
12-11-2024	33.0	72	0.00	14.4	8.9	1008.4	212.7
13-11-2024	31.1	79	2.30	21.6	18.9	1008	189.1
14-11-2024	31.7	80	4.51	19.8	27.2	1009.1	239.1
15-11-2024	30.1	87	26.28	24.8	14.6	1009.9	56
16-11-2024	31.3	82	1.62	23.0	36.2	1009.3	253.7
17-11-2024	30.7	80	22.17	27.4	28.7	1009.2	244.3
18-11-2024	29.9	80	7.10	29.9	30.6	1009.7	226.7
19-11-2024	27.5	88	27.10	29.5	17.5	1010.6	46
20-11-2024	25.7	92	45.40	24.1	12.6	1010.5	25.6
21-11-2024	28.8	84	11.00	27.4	19.3	1010.4	184.7
22-11-2024	30.0	78	20.86	25.9	19.9	1010.1	242.4
23-11-2024	29.6	80	0.00	27.0	16.4	1010.8	178
24-11-2024	29.4	80	0.00	26.3	13.9	1010.9	166.8
25-11-2024	27.2	83	0.00	24.8	10.8	1009.6	49.3
26-11-2024	26.3	89	39.52	25.6	350.1	1008.4	10.5
27-11-2024	25.5	89	22.34	36.4	348.9	1007.1	23
28-11-2024	28.2	80	0.00	18.7	339.3	1007	41.5
29-11-2024	30.0	68	0.00	17.6	306.9	1006.6	158.3
30-11-2024	31.0	74	0.00	21.2	235.3	1005.3	168.8

Dec 2024

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.12.2024 TO 31.12.2024							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>27.4</b>	<b>80.9</b>	<b>3.7</b>	<b>20.4</b>	<b>83.7</b>	<b>1010.1</b>	<b>186.1</b>
<b>Min</b>	<b>25.6</b>	<b>70.3</b>	<b>0</b>	<b>10.4</b>	<b>2.9</b>	<b>1004.6</b>	<b>52.1</b>
<b>Max</b>	<b>28.8</b>	<b>91.2</b>	<b>46.365</b>	<b>36.7</b>	<b>340.3</b>	<b>1013.7</b>	<b>252.5</b>
01-12-2024	27.8	81	0	26.3	231.6	1004.6	132.4
02-12-2024	28.8	81	0	23.4	216.6	1005.4	213.4
03-12-2024	28.6	81	2.5	19.4	193.5	1008.3	207.6
04-12-2024	28.1	79	2.384	14.8	90.7	1009.9	222.2
05-12-2024	27.5	83	12.676	14.4	53.7	1010.7	215.1
06-12-2024	27.8	84	0	19.1	34.9	1010.7	212.5
07-12-2024	27.8	83	0	16.2	33.3	1010.4	182.9
08-12-2024	27.8	81	0	18	38.2	1010.5	205.9
09-12-2024	27.7	82	0	15.8	28.5	1010.1	202.1
10-12-2024	28.0	78	0	20.5	20.6	1009.7	211.1
11-12-2024	26.8	81	1.735	31.7	2.9	1009.3	70.6
12-12-2024	25.6	91	46.365	36	5.1	1007.9	52.1
13-12-2024	26.7	89	7.868	36.7	86.3	1009	112.6
14-12-2024	25.6	90	27.068	24.5	17.6	1011.4	71.3
15-12-2024	26.6	76	0	29.2	16.2	1012.2	212.8
16-12-2024	26.0	78	1.8	26.3	7.9	1011.5	131.6
17-12-2024	26.6	73	0	21.2	7.7	1010.1	152.8
18-12-2024	27.6	77	0	12.2	340.3	1009.2	230.2
19-12-2024	27.9	84	0	11.9	155.3	1009	197.4
20-12-2024	28.5	84	0	14	200.1	1008.7	212.8
21-12-2024	28.3	85	0	10.4	57.9	1009.1	203.2
22-12-2024	27.8	82	3.576	15.8	36.4	1010.4	208.1
23-12-2024	27.3	80	0	10.8	23.5	1010.5	206.4
24-12-2024	27.3	79	0	12.2	187.8	1010.4	215.8
25-12-2024	27.6	80	0	11.2	133.3	1011.1	192.4
26-12-2024	27.5	81	1	13	97.2	1012.6	183.8
27-12-2024	27.5	79	0	31.7	46.7	1013.5	243
28-12-2024	26.9	73	0	28.1	36.5	1013.7	243.2
29-12-2024	27.1	70	0	28.1	26.5	1013	252.5
30-12-2024	27.1	75	1.9	33.1	30.2	1012.4	221.2
31-12-2024	26.3	77	2.3	36.4	27.8	1012.6	203.8

Jan - 2025

ADANI ENNORE CONTAINER TERMINAL PRIVATE LIMITED (AECTPL)							
AVERAGE REPORT							
FROM 01.01.2025 TO 31.01.2025							
<b>Avg</b>	<b>26.2</b>	<b>78.8</b>	<b>4.3</b>	<b>25.8</b>	<b>28.6</b>	<b>1011.7</b>	<b>179.7</b>
<b>Min</b>	<b>24.9</b>	<b>72.5</b>	<b>0</b>	<b>18.7</b>	<b>5.6</b>	<b>1010.4</b>	<b>86.5</b>
<b>Max</b>	<b>26.8</b>	<b>90.7</b>	<b>71.528</b>	<b>34.9</b>	<b>46.1</b>	<b>1013.3</b>	<b>243.6</b>
01-01-2025	26.8	77.0	7.15	34.9	23.4	1012.1	187.9
02-01-2025	26.7	74.4	0.00	27.0	29.1	1012.4	207.0
03-01-2025	26.4	74.8	0.00	32.4	23.8	1012.7	199.5
04-01-2025	26.2	72.8	0.00	24.5	23.5	1012.2	214.9
05-01-2025	26.3	72.5	0.00	22.0	35.0	1012.3	242.5
06-01-2025	26.1	72.5	0.00	20.9	25.1	1012.0	243.6
07-01-2025	26.3	82.2	0.00	22.7	31.2	1011.5	178.1
08-01-2025	26.1	80.9	1.91	24.8	37.2	1011.5	183.1
09-01-2025	26.2	75.3	0.00	23.4	30.1	1012.3	191.0
10-01-2025	26.6	78.0	0.00	27.7	23.6	1013.3	180.9
11-01-2025	26.5	80.6	0.00	28.4	26.8	1013.3	167.3
12-01-2025	26.2	77.6	6.56	24.5	15.9	1012.7	170.2
13-01-2025	26.7	83.2	0.00	24.5	31.7	1011.3	188.3
14-01-2025	26.3	83.6	14.03	25.2	31.5	1012.7	86.5
15-01-2025	26.2	84.7	5.10	30.6	27.4	1013.0	167.7
16-01-2025	26.7	78.2	0.00	29.2	30.0	1012.7	152.6
17-01-2025	26.2	78.0	0.00	29.9	30.4	1012.1	201.9
18-01-2025	24.9	82.0	7.56	27.0	5.6	1011.0	117.3
19-01-2025	25.0	90.7	71.53	22.7	14.6	1011.3	97.9
20-01-2025	26.2	83.2	0.00	24.1	23.4	1010.7	155.7
21-01-2025	26.2	77.4	0.00	22.7	27.3	1010.4	231.1
22-01-2025	25.9	83.1	10.33	20.9	23.7	1010.5	105.7
23-01-2025	26.5	83.5	1.70	27.0	45.7	1010.6	172.3
24-01-2025	26.3	77.3	0.00	23.0	34.1	1010.5	160.3
25-01-2025	26.5	78.6	0.00	23.8	30.5	1010.6	174.2
26-01-2025	26.1	76.7	0.00	27.4	33.0	1010.9	226.8
27-01-2025	25.8	76.8	0.00	25.9	25.2	1010.6	231.1
28-01-2025	26.1	75.4	0.00	18.7	46.1	1011.1	205.7
29-01-2025	26.2	72.9	0.00	31.0	43.4	1011.5	170.8
30-01-2025	26.4	76.4	0.00	28.4	28.8	1010.9	190.0
31-01-2025	27.2	81.0	0.00	28.4	45.6	1010.2	261.8

Feb - 2025

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.02.2025 TO 28.02.2025							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>31.6</b>	<b>76.0</b>	<b>1.2</b>	<b>23.0</b>	<b>51.8</b>	<b>1012.3</b>	<b>258.8</b>
<b>Min</b>	<b>29.9</b>	<b>71.8</b>	<b>0</b>	<b>16.6</b>	<b>34.1</b>	<b>1010.9</b>	<b>219.2</b>
<b>Max</b>	<b>33.4</b>	<b>83.9</b>	<b>16.314</b>	<b>37.8</b>	<b>67.7</b>	<b>1013.8</b>	<b>289.7</b>
01-02-2025	31.4	83.9	0.0	17.6	51.8	1011	228.4
02-02-2025	31.4	82.2	0.0	22.3	54.8	1011.1	227.1
03-02-2025	29.9	79.9	0.0	19.8	50.2	1011.9	247
04-02-2025	30.2	77.7	0.0	18.0	46.9	1012.2	255.5
05-02-2025	31.7	76.9	0.0	22.7	48.2	1011.3	249.1
06-02-2025	30.7	78.9	0.0	22.0	44.9	1010.9	224.1
07-02-2025	31.9	76.2	0.0	22.0	46.5	1012.3	260.6
08-02-2025	31.4	75.3	0.0	22.7	41.1	1012.3	241.6
09-02-2025	31.4	76.2	0.0	25.2	42.3	1011.6	259.8
10-02-2025	31.4	74.4	0.0	23.0	46.6	1012.6	219.2
11-02-2025	29.9	77.0	0.0	21.6	50.4	1013.1	255.2
12-02-2025	32.4	78.5	0.0	20.9	53.1	1012.7	222.9
13-02-2025	31.9	76.0	0.0	18.4	58.9	1012.6	269.5
14-02-2025	33.4	73.4	0.0	16.9	65.8	1012.3	284.1
15-02-2025	31.9	74.3	0.0	18.7	58.6	1011.2	289.7
16-02-2025	31.7	73.4	0.0	23.4	62.5	1011.5	281.2
17-02-2025	32.7	71.8	0.0	21.6	60.7	1013.2	278.6
18-02-2025	32.9	71.9	0.0	19.8	56.5	1013.3	273.4
19-02-2025	32.1	74.7	0.0	16.6	67.7	1011.5	278.6
20-02-2025	32.0	75.1	0.0	18.0	59.4	1011.9	263.9
21-02-2025	32.1	74.2	0.0	20.5	64.6	1013.1	267.5
22-02-2025	31.7	75.0	0.0	20.5	63.6	1013.6	255
23-02-2025	32.2	75.8	0.0	23.0	58.2	1013.6	276.3
24-02-2025	32.3	76.0	0.0	25.9	54.6	1013.4	281
25-02-2025	31.6	74.7	16.3	33.8	36.5	1013.8	260.3
26-02-2025	31.3	74.3	9.4	37.8	34.2	1013.2	279
27-02-2025	31.7	74.7	0.0	35.6	34.1	1012.1	266.8
28-02-2025	30.9	74.4	9.0	35.6	38.1	1011.1	250.8

## MARCH 2025

MARINE INFRASTRUCTURE DEVELOPER LTD							
AVERAGE REPORT							
FROM 01.03.2025 TO 31.03.2025							
Date	Atm. Temp (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (km/hr)	Wind Direction (degrees)	Atm. Pressure (mBar)	Solar Radiation (w/m <sup>2</sup> )
<b>Avg</b>	<b>28.7</b>	<b>79.0</b>	<b>3.9</b>	<b>18.5</b>	<b>88.6</b>	<b>1010.6</b>	<b>253.3</b>
<b>Min</b>	<b>26.6</b>	<b>71.0</b>	<b>0</b>	<b>12.6</b>	<b>39.9</b>	<b>1007.6</b>	<b>67.5</b>
<b>Max</b>	<b>30.1</b>	<b>89.7</b>	<b>36.649</b>	<b>34.6</b>	<b>171.1</b>	<b>1013.3</b>	<b>296.7</b>
01-03-2025	27.3	85.6	36.65	24.1	48.3	1010.9	184.5
02-03-2025	27.8	85.1	35.16	19.8	57.7	1010	232.5
03-03-2025	27.8	85.1	0.00	14.8	66.5	1010.4	220.6
04-03-2025	28.1	83.0	0.00	15.8	60.7	1010.3	259.6
05-03-2025	28.2	80.9	0.00	15.1	82.9	1010.5	295.9
06-03-2025	28.2	79.9	0.00	15.5	134.7	1011.1	296.7
07-03-2025	28.4	78.8	0.00	15.8	139.7	1010	270.7
08-03-2025	28.3	79.0	0.10	19.1	105.2	1009.1	276.2
09-03-2025	27.9	71.0	0.00	21.2	59.8	1009.6	285.5
10-03-2025	28.4	73.1	0.00	33.5	43.0	1010.9	266.7
11-03-2025	26.6	89.7	16.77	34.6	49.4	1010.9	67.5
12-03-2025	27.1	85.0	18.08	17.6	39.9	1010.7	188.1
13-03-2025	28.0	81.8	0.00	17.3	49.6	1010.3	252.7
14-03-2025	28.7	79.3	0.60	14.8	87.9	1010.4	261.5
15-03-2025	28.7	78.1	0.30	15.8	90.8	1010.9	256.5
16-03-2025	29.0	78.7	0.40	13.7	94.3	1011.2	234.4
17-03-2025	29.1	80.7	0.00	12.6	110.5	1010.8	263.4
18-03-2025	29.3	79.2	0.00	15.8	122.2	1010.7	275
19-03-2025	29.4	79.0	0.00	15.5	124.9	1012.3	251.1
20-03-2025	29.6	74.9	0.00	17.6	79.0	1013.3	295
21-03-2025	30.1	75.7	0.00	18.4	76.9	1013.3	274.3
22-03-2025	29.7	78.1	0.00	15.5	80.5	1012.6	228.8
23-03-2025	29.9	74.6	0.00	18.4	94.6	1012.3	285.5
24-03-2025	30.0	75.8	0.00	21.6	71.3	1011.5	271.1
25-03-2025	29.6	73.9	0.00	19.4	73.7	1009.4	282.2
26-03-2025	29.0	75.5	0.00	16.2	116.9	1008.6	277
27-03-2025	29.8	74.2	0.00	18.4	171.1	1008.1	253.8
28-03-2025	29.9	76.0	0.00	19.1	149.4	1007.6	286.7

### i. AMBIENT AIR QUALITY

Ambient air quality monitoring is required to determine the existing quality of air, evaluation of the effectiveness of control system and to identify areas in need of restoration and their prioritization. In order to generate background data, air quality monitoring is conducted to assess existing level of contamination and to assess possible effects of air contamination occurring in future.

#### Frequency of Monitoring

The frequency of monitoring that has been followed for sampling of ambient air quality is that one sample per weekly twice at three locations.

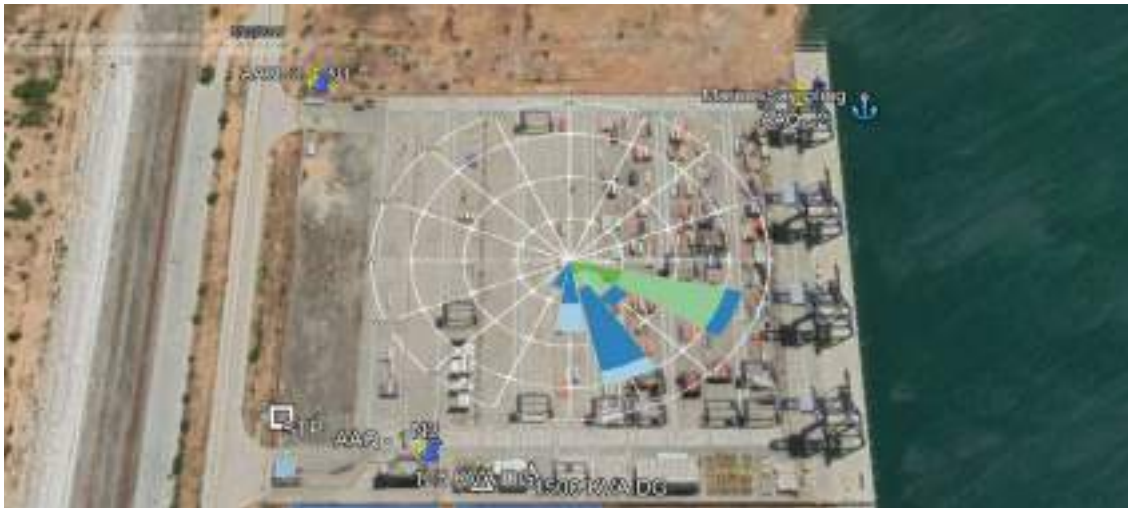
**DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS**

Station code	Location	Geographical location	Environmental setting
AAQ1	Port operating building	13.270444° N 80.334657° E	Industrial
AAQ2	RMU Building	13.273412° N 80.337600° E	Industrial
AAQ3	In Terminal Gate	13.273715° N 80.333810° E	Village

**Fig - 2. AMBIENT AIR SAMPLING STATIONS LOCATION MAP**



Fig.3.AMBIENT AIR SAMPLINGS STATIONS WITH RESPECT TO WIND



### TECHNIQUES USED FOR AMBIENT AIR QUALITY MONITORING

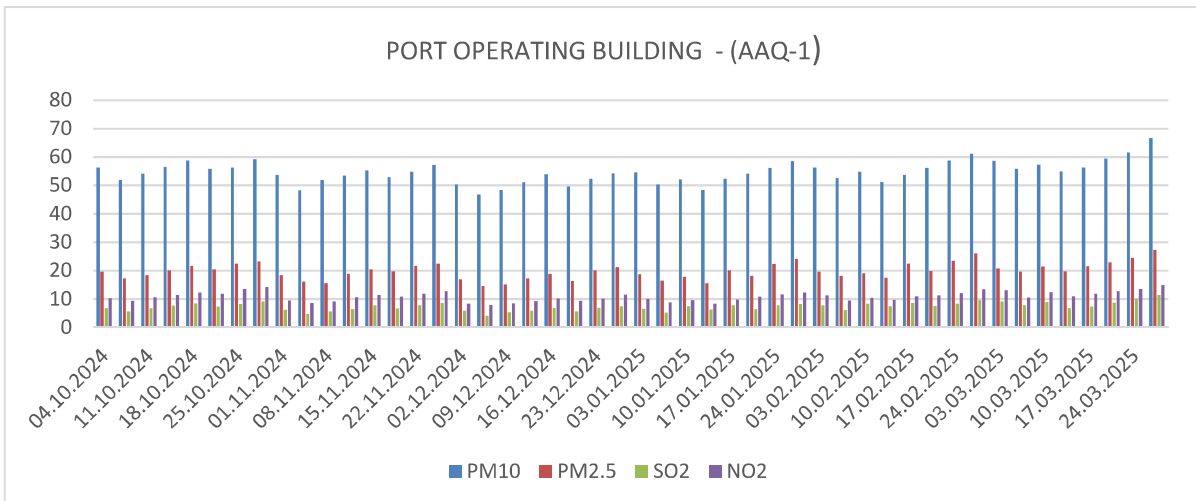
S.N o	Parameter	Technique	Unit	Minimum Detectable Limit
1	PM <sub>10</sub>	Respirable Dust Sampler (Gravimetric method)	µg/m <sup>3</sup>	1.0
2	PM <sub>2.5</sub>	Fine particle Sampler (Gravimetric method)	µg/m <sup>3</sup>	5.0
3	Sulphur Dioxide	Modified West and Gaeke method	µg/m <sup>3</sup>	4.0
4	Nitrogen Oxide	Jacob &Hochheiser method	µg/m <sup>3</sup>	6.0
5	Lead	Atomic Absorption Spectrometry	µg/m <sup>3</sup>	0.5
6	Carbon Monoxide	Draggers Tube	mg/m <sup>3</sup>	0.1
7	Ozone	UV Photometric	µg/m <sup>3</sup>	2.0
8	Ammonia	Indophenol blue method	µg/m <sup>3</sup>	2.0
9	Benzene	Gas Chromatography	µg/m <sup>3</sup>	1.0
10	Benzene (α) pyrene	Gas Chromatography	ng/m <sup>3</sup>	0.1
11	Arsenic	Atomic Absorption Spectrometry	ng/m <sup>3</sup>	1.0
12	Nickel	Atomic Absorption Spectrometry	ng/m <sup>3</sup>	5.0

### Results and Discussion

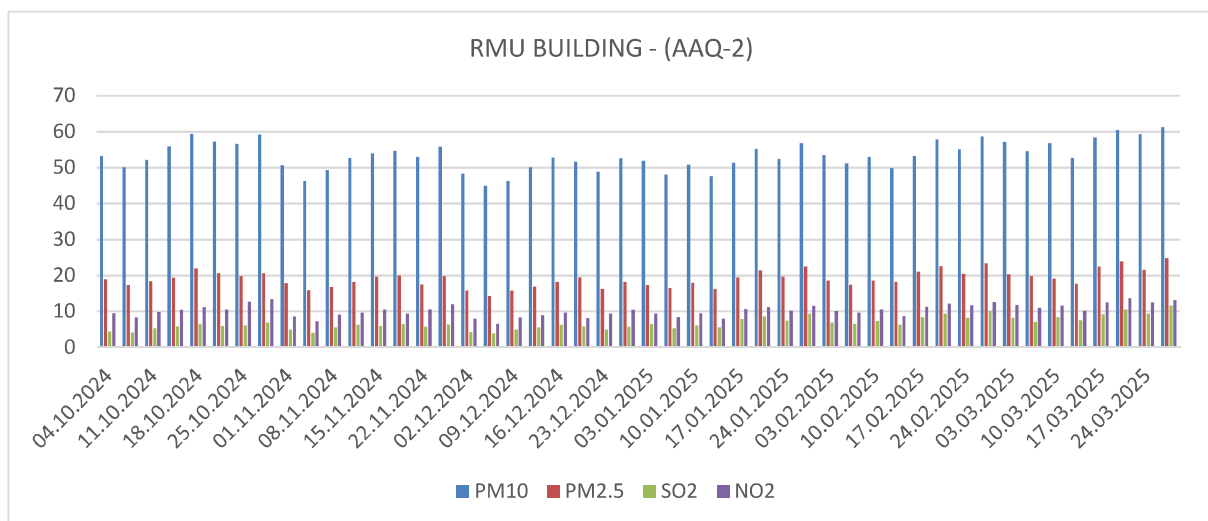
The results of the ambient air quality for the study period are submitted. The minimum, maximum 98<sup>th</sup> percentile and average values have been computed from the observed raw data for all the AAQ monitoring stations. The summary of these results for all the locations is presented in the Table and the detailed analytical results are shown in Annexure - 2. These are compared with the standards prescribed by Central Pollution Control Board (CPCB) for “Industrial, Rural, Residential and other areas”

## ANNEXURE - 2 RESULTS OF AMBIENT AIR QUALITY MONITORING DATA

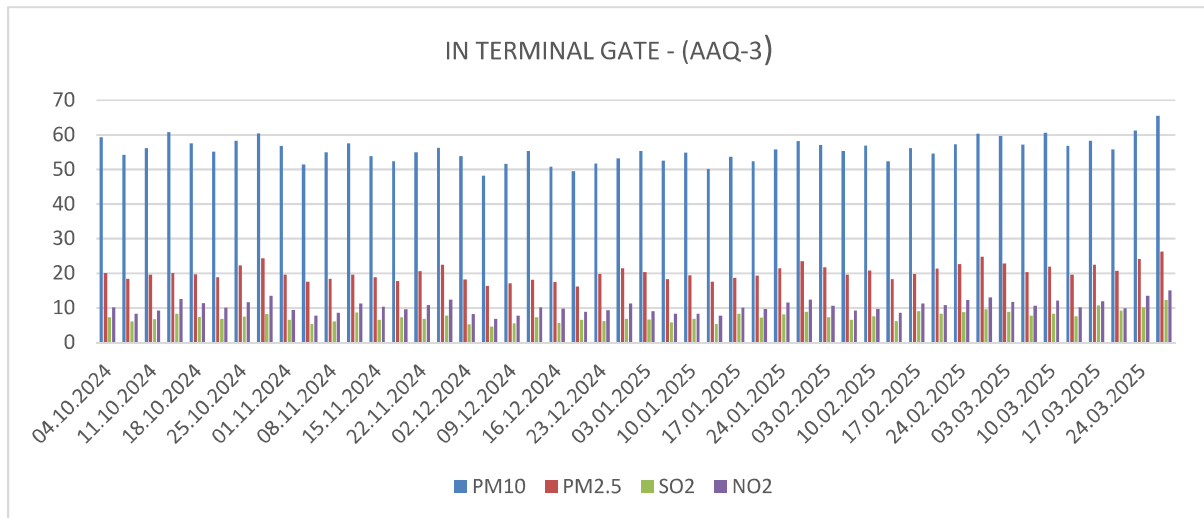
PORT OPERATING BUILDING - (AAQ1)													
Parameters		Particular matter PM10	Particular matter PM2.5	Sulphur dioxide as SO2	Nitrogen dioxide as NO2	Lead as Pb	Carbon monoxide as CO	Ozone as O3	Ammonia as NH3	Arsenic as As	Nickel as Ni	Benzene as C6H6	Benzo (a) pyrene as BaP
Unit		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3
National AAQM Standard		100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date												
1	04.10.2024	56.3	19.6	6.8	10.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
2	07.10.2024	51.8	17.3	5.6	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
3	11.10.2024	54.2	18.4	6.8	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
4	14.10.2024	56.5	20.1	7.7	11.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
5	18.10.2024	58.7	21.6	8.5	12.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
6	21.10.2024	55.9	20.4	7.3	11.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
7	25.10.2024	56.3	22.5	8.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
8	28.10.2024	59.1	23.2	9.1	14.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
9	01.11.2024	53.6	18.4	6.2	9.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
10	04.11.2024	48.2	16.1	4.7	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
11	08.11.2024	51.8	15.6	5.7	9.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
12	11.11.2024	53.4	18.9	6.4	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
13	15.11.2024	55.2	20.4	7.8	11.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
14	18.11.2024	52.9	19.7	6.7	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
15	22.11.2024	54.8	21.6	7.8	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
16	25.11.2024	57.1	22.4	8.6	12.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
17	02.12.2024	50.2	16.9	5.9	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
18	06.12.2024	46.8	14.6	4.1	7.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
19	09.12.2024	48.3	15.1	5.3	8.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
20	13.12.2024	51.1	17.3	5.9	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
21	16.12.2024	53.8	18.9	6.9	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
22	20.12.2024	49.6	16.4	5.7	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
23	23.12.2024	52.4	20.1	6.9	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
24	27.12.2024	54.3	21.2	7.4	11.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
25	03.01.2025	54.6	18.7	6.5	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
26	06.01.2025	50.2	16.5	5.2	8.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
27	10.01.2025	52.1	17.8	7.5	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
28	13.01.2025	48.3	15.6	6.3	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
29	17.01.2025	52.4	20.1	7.8	9.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
30	20.01.2025	54.1	18.2	6.4	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
31	24.01.2025	56.2	22.3	7.8	11.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
32	27.01.2025	58.5	24.1	8.2	12.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
33	03.02.2025	56.3	19.6	7.8	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
34	07.02.2025	52.6	18.2	6.1	9.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
35	10.02.2025	54.8	19.1	8.3	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
36	14.02.2025	51.2	17.5	7.4	9.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
37	17.02.2025	53.6	22.4	8.6	10.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
38	21.02.2025	56.2	19.8	7.6	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
39	24.02.2025	58.7	23.4	8.4	12.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
40	27.02.2025	61.2	26.1	9.6	13.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
41	03.03.2025	58.6	20.8	9.1	13.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
42	07.03.2025	55.8	19.6	7.8	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
43	10.03.2025	57.2	21.4	8.9	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
44	14.03.2025	54.9	19.7	6.8	10.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
45	17.03.2025	56.3	21.5	7.3	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
46	21.03.2025	59.5	22.9	8.7	12.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
47	24.03.2025	61.6	24.5	10.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1



RMU BUILDING - (AAQ2)													
Parameters		Particular matter PM10	Particular matter PM2.5	Sulphur dioxide as SO2	Nitrogen dioxide as NO2	Lead as Pb	Carbon monoxide as CO	Ozone as O3	Ammonia as NH3	Arsenic as As	Nickel as Ni	Benzene as C6H6	Benzo (a) pyrene as BaP
Unit		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3
National AAQM Standard		100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date												
1	04.10.2024	53.2	18.9	4.4	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
2	07.10.2024	50.1	17.3	4.1	8.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
3	11.10.2024	52.1	18.4	5.2	9.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
4	14.10.2024	55.9	19.3	5.8	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
5	18.10.2024	59.4	21.9	6.4	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
6	21.10.2024	57.2	20.6	5.9	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
7	25.10.2024	56.6	19.8	6.1	12.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
8	28.10.2024	59.1	20.6	6.8	13.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
9	01.11.2024	50.6	17.8	4.9	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
10	04.11.2024	46.2	15.9	4	7.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
11	08.11.2024	49.3	16.8	5.6	9.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
12	11.11.2024	52.7	18.1	6.2	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
13	15.11.2024	53.9	19.6	5.9	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
14	18.11.2024	54.6	20	6.4	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
15	22.11.2024	52.9	17.5	5.7	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
16	25.11.2024	55.8	19.8	6.3	11.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
17	02.12.2024	48.3	15.8	4.2	7.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
18	06.12.2024	44.9	14.3	3.8	6.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
19	09.12.2024	46.2	15.8	4.9	8.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
20	13.12.2024	50.1	16.9	5.6	8.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
21	16.12.2024	52.8	18.2	6.2	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
22	20.12.2024	51.6	19.4	5.8	8.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
23	23.12.2024	48.8	16.2	4.9	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
24	27.12.2024	52.6	18.2	5.7	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
25	03.01.2025	51.8	17.3	6.4	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
26	06.01.2025	48.1	16.5	5.2	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
27	10.01.2025	50.8	17.9	6.1	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
28	13.01.2025	47.6	16.2	5.6	7.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
29	17.01.2025	51.3	19.4	7.8	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
30	20.01.2025	55.2	21.4	8.6	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
31	24.01.2025	52.4	19.6	7.4	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
32	27.01.2025	56.8	22.5	9.3	11.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
33	03.02.2025	53.4	18.6	6.9	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
34	07.02.2025	51.2	17.4	6.5	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
35	10.02.2025	52.9	18.6	7.3	10.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
36	14.02.2025	49.8	18.1	6.2	8.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
37	17.02.2025	53.2	21.1	8.4	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
38	21.02.2025	57.8	22.6	9.3	12.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
39	24.02.2025	55.1	20.4	8.2	11.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
40	27.02.2025	58.6	23.3	10.1	12.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
41	03.03.2025	57.1	20.3	8.2	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
42	07.03.2025	54.5	19.8	7.1	10.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
43	10.03.2025	56.8	19.1	8.4	11.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
44	14.03.2025	52.7	17.6	7.5	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
45	17.03.2025	58.4	22.4	9.2	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
46	21.03.2025	60.4	23.8	10.5	13.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
47	24.03.2025	59.3	21.6	9.3	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
48	28.03.2025	61.2	24.8	11.6	13.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1



IN TERMINAL GATE - (AAQ3)													
Parameters		Particular matter PM10	Particular matter PM2.5	Sulphur dioxide as SO2	Nitrogen dioxide as NO2	Lead as Pb	Carbon monoxide as CO	Ozone as O3	Ammonia as NH3	Arsenic as As	Nickel as Ni	Benzene as C6H6	Benzo (a) pyrene as BaP
Unit		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3
National AAQM Standard		100	60	80	80	1	4	180	400	6	20	5	1
S.No.	Sampling Date												
1	04.10.2024	59.3	20.1	7.3	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
2	07.10.2024	54.2	18.4	6.1	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
3	11.10.2024	56.1	19.6	6.7	9.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
4	14.10.2024	60.7	20.1	8.3	12.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
5	18.10.2024	57.5	19.7	7.4	11.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
6	21.10.2024	55.1	18.9	6.9	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
7	25.10.2024	58.3	22.3	7.5	11.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
8	28.10.2024	60.4	24.3	8.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
9	01.11.2024	56.8	19.6	6.5	9.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
10	04.11.2024	51.4	17.6	5.4	7.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
11	08.11.2024	54.9	18.4	6.1	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
12	11.11.2024	57.5	19.6	8.7	11.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
13	15.11.2024	53.8	18.9	6.5	10.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
14	18.11.2024	52.4	17.8	7.3	9.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
15	22.11.2024	54.9	20.6	6.9	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
16	25.11.2024	56.2	22.5	7.8	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
17	02.12.2024	53.9	18.2	5.2	8.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
18	06.12.2024	48.2	16.4	4.6	6.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
19	09.12.2024	51.6	17.1	5.6	7.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
20	13.12.2024	55.3	18.1	7.3	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
21	16.12.2024	50.7	17.5	5.7	9.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
22	20.12.2024	49.5	16.2	6.5	8.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
23	23.12.2024	51.7	19.8	6.2	9.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
24	27.12.2024	53.2	21.4	6.9	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
25	03.01.2025	55.3	20.4	6.6	9.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
26	06.01.2025	52.6	18.3	5.8	8.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
27	10.01.2025	54.8	19.4	6.9	8.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
28	13.01.2025	50.1	17.6	5.4	7.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
29	17.01.2025	53.6	18.7	8.4	10.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
30	20.01.2025	52.4	19.3	7.2	9.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
31	24.01.2025	55.8	21.4	8.1	11.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
32	27.01.2025	58.1	23.5	8.9	12.4	<0.1	<1	<10	<2	<2	<2	<1	<0.1
33	03.02.2025	57.1	21.8	7.3	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
34	07.02.2025	55.3	19.6	6.5	9.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
35	10.02.2025	56.9	20.8	7.6	9.7	<0.1	<1	<10	<2	<2	<2	<1	<0.1
36	14.02.2025	52.4	18.3	6.2	8.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
37	17.02.2025	56.1	19.8	9.1	11.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
38	21.02.2025	54.6	21.3	8.4	10.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
39	24.02.2025	57.3	22.6	8.8	12.3	<0.1	<1	<10	<2	<2	<2	<1	<0.1
40	27.02.2025	60.3	24.8	9.6	13.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
41	03.03.2025	59.6	22.8	8.9	11.8	<0.1	<1	<10	<2	<2	<2	<1	<0.1
42	07.03.2025	57.2	20.4	7.8	10.6	<0.1	<1	<10	<2	<2	<2	<1	<0.1
43	10.03.2025	60.6	21.9	8.3	12.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1
44	14.03.2025	56.7	19.6	7.6	10.2	<0.1	<1	<10	<2	<2	<2	<1	<0.1
45	17.03.2025	58.3	22.5	10.7	11.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
46	21.03.2025	55.8	20.7	9.2	9.9	<0.1	<1	<10	<2	<2	<2	<1	<0.1
47	24.03.2025	61.2	24.1	10.2	13.5	<0.1	<1	<10	<2	<2	<2	<1	<0.1
48	28.03.2025	65.4	26.3	12.3	15.1	<0.1	<1	<10	<2	<2	<2	<1	<0.1



**NATIONAL AMBIENT AIR QUALITY STANDARDS  
CENTRAL POLLUTION CONTROL BOARD**

**NOTIFICATION**

New Delhi, the 15<sup>th</sup> November, 2000

No B-20016/2000-DCI-L.—In exercise of the powers conferred by Sub-section (2) (b) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981), and in super session of the Notification No(s) S.O. 384(E), dated 11<sup>th</sup> April, 1994 and S.O. 915(E), dated 14<sup>th</sup> October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

**NATIONAL AMBIENT AIR QUALITY STANDARDS**

S. No.	Pollutant	Time Weighted average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and Other Area	Ecologically sensitive area (notified by Central Govt.)	
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	50	50	<ul style="list-style-type: none"> <li>Improved West and Gaeke</li> <li>Ultraviolet fluorescence</li> </ul>
		24 hours**	80	80	
2	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	40	40	<ul style="list-style-type: none"> <li>Modified Jacob &amp; Hochheiser (Na-Arsenite)</li> <li>Chemiluminescence</li> </ul>
		24 hours**	80	80	
3	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> /m <sup>3</sup>	Annual*	60	60	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	100	100	
4	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub> µg/m <sup>3</sup>	Annual*	40	40	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	80	80	
5	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	8 hours**	100	100	<ul style="list-style-type: none"> <li>UV photometric</li> <li>Chemiluminescence</li> <li>Chemical method</li> </ul>
		1 hour**	180	180	
		Annual*	0.5	0.5	
6	Lead (Pb) µg/m <sup>3</sup>	Annual*	0.5	0.5	<ul style="list-style-type: none"> <li>AAS / ICP method after sampling on EPM 1000 or equivalent filter paper</li> <li>ED - NCF using Tetra filter</li> </ul>
		24 hours**	1.0	1.0	

7	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours**	2	2	Non Dispersive Infra RED (NDIR) Spectroscopy
		1 hour**	4	4	
8	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual*	100	100	<ul style="list-style-type: none"> <li>Chemiluminescence</li> <li>Nitrophenol blue method</li> </ul>
		24 hours**	400	400	
9	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual*	5	5	<ul style="list-style-type: none"> <li>Gas chromatography based continuous analyser</li> <li>Absorption and desorption followed by GC analysis</li> </ul>
		Annual*	5	5	
10	Benzo (a) Pyrene (BaP) - particulate phase only ng/m <sup>3</sup>	Annual*	1	1	Solvent extraction followed by HPLC / GC analysis
11	Arsenic (As) ng/m <sup>3</sup>	Annual*	6	6	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni) ng/m <sup>3</sup>	Annual*	30	30	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper

\* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

\*\* 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

**Note:** Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

## ii. AMBIENT NOISE LEVEL INTENSITY

Collection of ambient noise levels at four locations. Spot noise levels were measured with a precalibrated Noise Level Meter - SL- 4023 SD for day and night periods.

### DETAILS OF NOISE MONITORING LOCATIONS

STATION CODE	LOCATIONS	Geographical Location
N1	Port operating building	13.270444° N 80.334657° E
N2	RMU Building	13.273412° N 80.337600° E
N3	In Terminal Gate	13.273715° N 80.333810° E

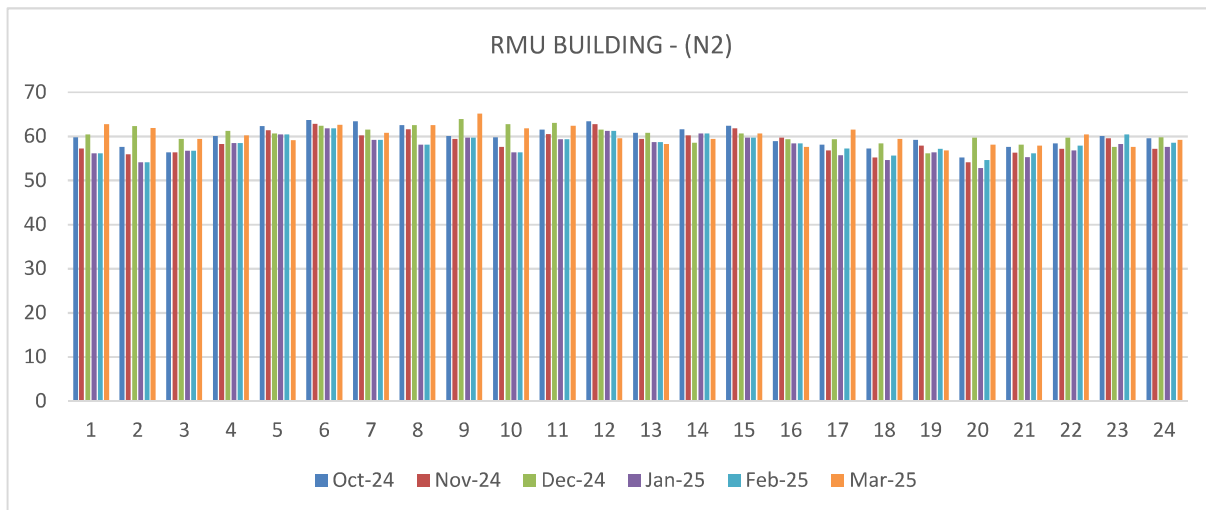
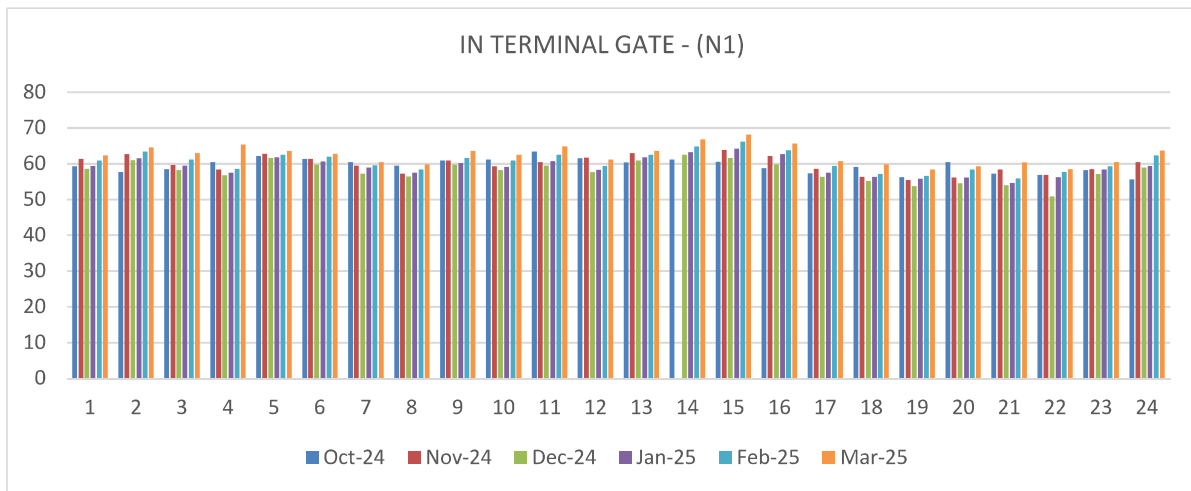
**Fig - 4. Noise Level Sampling Locations**



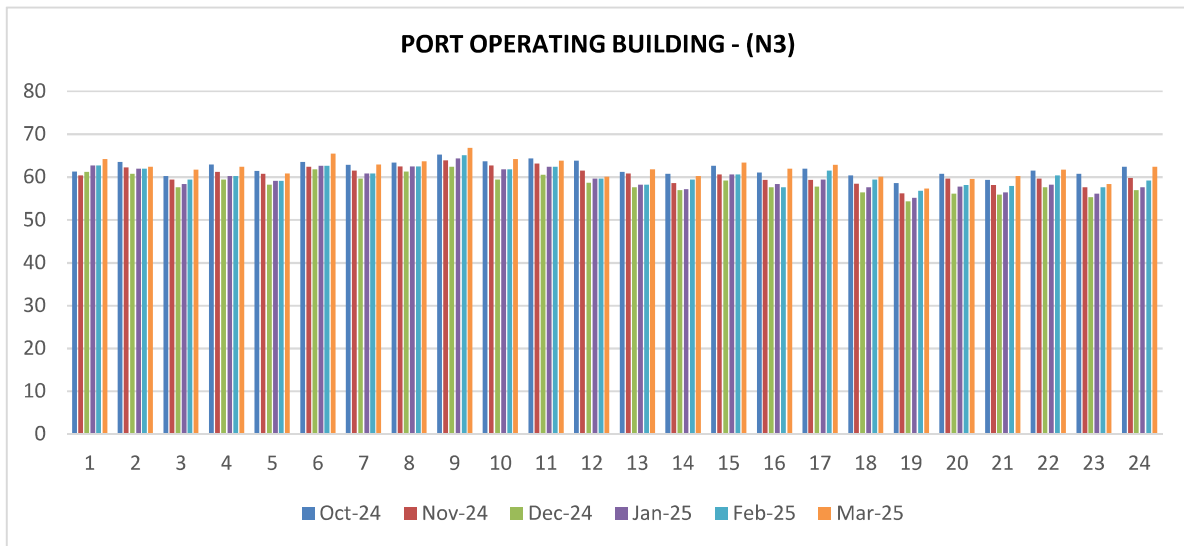
The noise levels monitored during the study period are given hereunder in form of Leq day, Leq night compared with CPCB Standards.

## ANNEXURE - 3 RESULTS OF AMBIENT NOISE LEVEL MONITORING DATA

Location		IN TERMINAL GATE - (N1)						RMU BUILDING - (N2)					
Month & Year		Oct-24	Nov-24	May-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	May-24	Jan-25	Feb-25	Mar-25
Parameter & Unit		Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)
S.N	Time of Sampling												
1	06.00 – 07.00 (Day)	59.2	61.3	58.6	59.3	60.8	62.3	59.8	57.3	54.9	56.2	56.2	58.4
2	07.00 – 08.00	57.6	62.7	60.9	61.5	63.4	64.5	57.6	55.9	53.6	54.1	54.1	55.6
3	08.00 – 09.00	58.5	59.6	58.1	59.4	61.2	62.9	56.4	56.4	55.8	56.7	56.7	57.9
4	09.00 – 10.00	60.4	58.4	56.7	57.5	58.6	65.4	60.1	58.2	57.9	58.5	58.5	59.4
5	10.00 – 11.00	62.1	62.8	61.6	61.8	62.4	63.5	62.3	61.4	59.1	60.4	60.4	61.2
6	11.00 – 12.00	61.3	61.3	59.7	60.6	61.9	62.8	63.7	62.8	60.6	61.8	61.8	64.5
7	12.00 – 13.00	60.4	59.4	57.2	58.9	59.5	60.4	63.4	60.2	58.4	59.2	59.2	60.8
8	13.00 – 14.00	59.4	57.2	56.4	57.5	58.4	59.8	62.5	61.6	57.6	58.1	58.1	59.6
9	14.00 – 15.00	60.8	60.8	59.7	60.2	61.6	63.5	60.1	59.4	58.3	59.7	59.7	61.2
10	15.00 – 16.00	61.2	59.2	58.2	59.1	60.8	62.4	59.8	57.6	55.9	56.4	56.4	58.6
11	16.00 – 17.00	63.4	60.4	59.4	60.7	62.4	64.8	61.5	60.5	58.6	59.3	59.3	60.4
12	17.00 – 18.00	61.5	61.7	57.6	58.3	59.3	61.2	63.4	62.7	61.5	61.2	61.2	62.3
13	18.00 – 19.00	60.3	62.9	60.8	61.8	62.4	63.5	60.8	59.4	57.6	58.7	58.7	59.7
14	19.00 – 20.00	61.2	64.5	62.4	63.2	64.8	66.7	61.6	60.2	59.4	60.6	60.6	61.5
15	20.00 – 21.00	60.5	63.8	61.6	64.2	66.1	68.1	62.4	61.8	58.2	59.7	59.7	63.4
16	21.00 – 22.00	58.7	62.1	59.8	62.7	63.7	65.6	58.9	59.7	57.6	58.4	58.4	60.8
17	22.00 – 23.00 (Night)	57.3	58.6	56.3	57.5	59.3	60.7	58.1	56.8	54.5	55.7	57.3	58.9
18	23.00 – 00.00	59.1	56.3	55.1	56.3	57.1	59.8	57.3	55.2	53.8	54.6	55.6	56.3
19	00.00 – 01.00	56.2	55.4	53.7	55.8	56.5	58.4	59.2	57.9	55.7	56.4	57.1	58.5
20	01.00 – 02.00	60.4	56.1	54.5	56.1	58.4	59.2	55.2	54.1	53.4	52.8	54.6	56.1
21	02.00 – 03.00	57.2	58.4	53.9	54.6	55.9	60.3	57.6	56.3	54.6	55.3	56.2	58.4
22	03.00 – 04.00	56.9	56.9	50.8	56.2	57.6	58.5	58.4	57.1	55.9	56.8	57.9	60.7
23	04.00 – 05.00	58.2	58.5	57.1	58.4	59.2	60.4	60.1	59.6	58.1	58.2	60.4	59.4
24	05.00 – 06.00	55.6	60.4	58.9	59.3	62.3	63.6	59.6	57.2	56.6	57.6	58.6	60.1



Location		PORT OPERATING BUILDING – (N3)					
Month & Year		Oct-24	Nov-24	May-24	Jan-25	Feb-25	Mar-25
Parameter & Unit		Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)	Leq dB(A)
S.No.	Time of Sampling						
1	06.00 – 07.00 (Day)	61.3	60.4	61.2	62.7	62.7	64.2
2	07.00 – 08.00	63.5	62.3	60.7	61.9	61.9	62.4
3	08.00 – 09.00	60.2	59.4	57.6	58.3	59.4	61.7
4	09.00 – 10.00	62.9	61.2	59.4	60.2	60.2	62.4
5	10.00 – 11.00	61.4	60.7	58.2	59.1	59.1	60.8
6	11.00 – 12.00	63.5	62.4	61.8	62.6	62.6	65.4
7	12.00 – 13.00	62.8	61.5	59.7	60.8	60.8	62.9
8	13.00 – 14.00	63.4	62.5	61.3	62.5	62.5	63.7
9	14.00 – 15.00	65.2	63.9	62.4	64.3	65.1	66.8
10	15.00 – 16.00	63.7	62.7	59.4	61.8	61.8	64.2
11	16.00 – 17.00	64.3	63.1	60.5	62.4	62.4	63.8
12	17.00 – 18.00	63.8	61.5	58.7	59.6	59.6	60.1
13	18.00 – 19.00	61.2	60.8	57.6	58.2	58.2	61.8
14	19.00 – 20.00	60.7	58.6	56.9	57.1	59.4	60.2
15	20.00 – 21.00	62.6	60.6	59.2	60.6	60.6	63.4
16	21.00 – 22.00	61.1	59.3	57.6	58.3	57.6	61.9
17	22.00 – 23.00 (Night)	61.9	59.3	57.8	59.4	61.5	62.8
18	23.00 – 00.00	60.4	58.4	56.4	57.6	59.4	60.1
19	00.00 – 01.00	58.6	56.2	54.3	55.2	56.8	57.3
20	01.00 – 02.00	60.7	59.7	56.1	57.8	58.1	59.5
21	02.00 – 03.00	59.3	58.1	55.9	56.4	57.9	60.2
22	03.00 – 04.00	61.5	59.7	57.6	58.2	60.4	61.7
23	04.00 – 05.00	60.7	57.6	55.3	56.1	57.6	58.3
24	05.00 – 06.00	62.4	59.8	56.9	57.6	59.2	62.4



## Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Note:-
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
  2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
  3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
  4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq: It is an energy mean of the noise level over a specified period.

### iii. DG SET EMISSIONS

Sampling of Flue gas emission of 2000 KVA DG Set was done and its emissions were determined along with its noise intensity. The Detailed report has been is enclosed as Annexure - 4

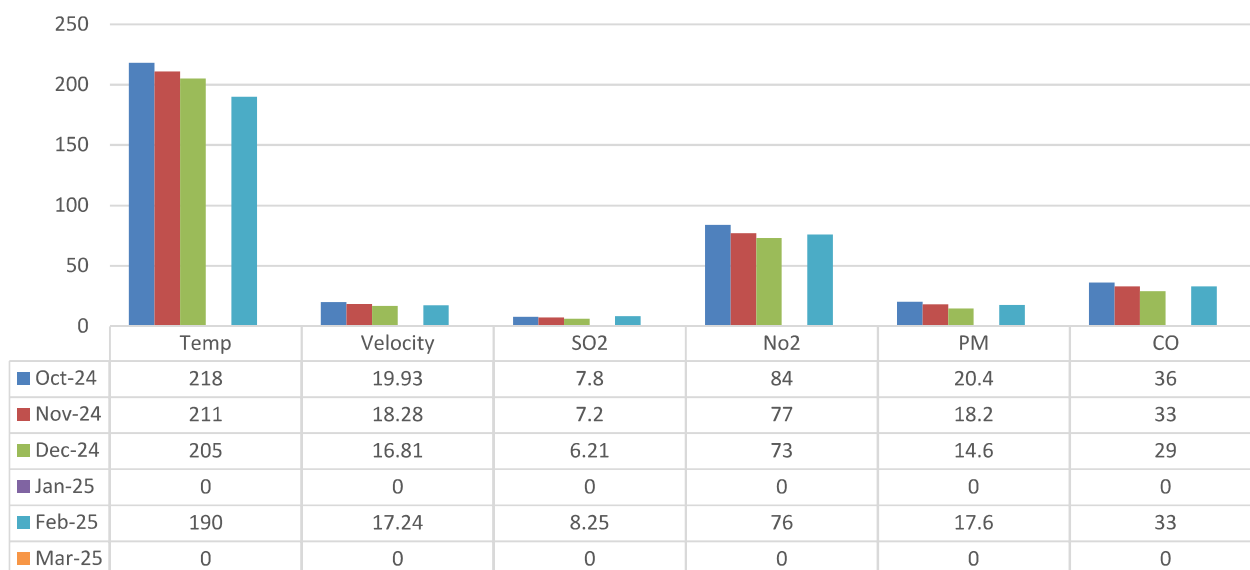
#### DETAILS OF EMISSION MONITORING LOCATIONS

STATION CODE	LOCATIONS	Geographical Location
SM-01	DG – 1 1500 KVA (Near MRSS)	13°16'13.40"N 80°20'8.15"E
SM-02	DG – 2 1500 KVA (Near MRSS)	13°16'13.40"N 80°20'8.15"E
SM-03	DG – 3 1500 KVA (Near MRSS)	13°16'13.40"N 80°20'8.15"E
SM-04	DG-4 125 KVA (Near MRSS)	13°16'13.16"N 80°20'7.19"E

#### ANNEXURE - 4 RESULTS OF SOURCE EMISSION MONITORING DATA

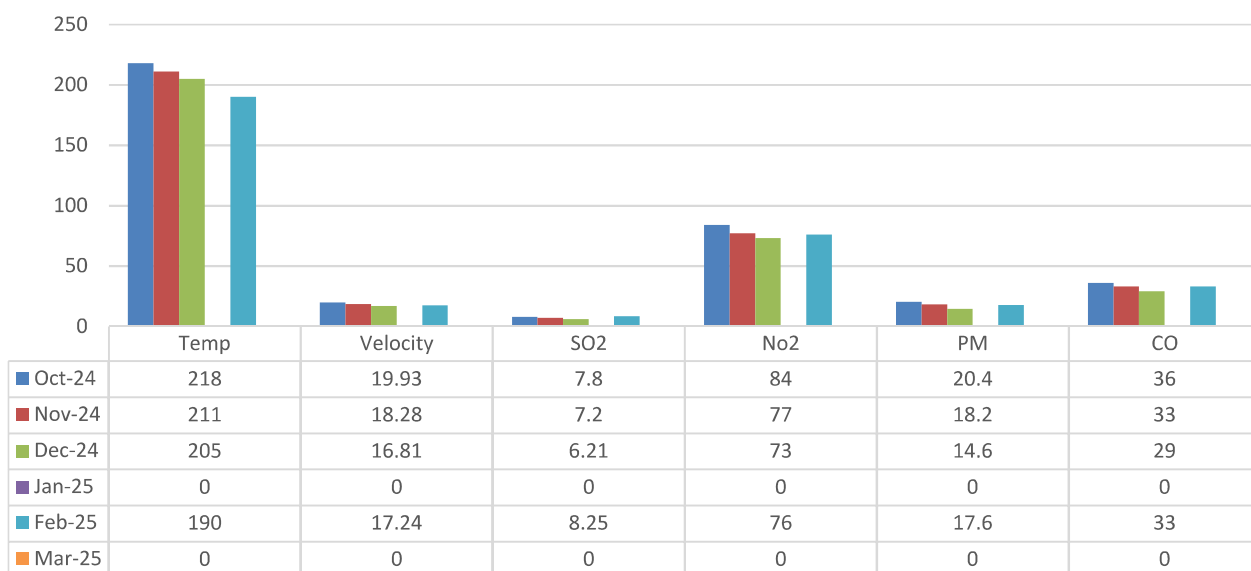
STACK MONITORING						
Location		DG 1500 KVA - 1				
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25
S.No.	Parameters					
1	Stack Temperature, °C	218	211	205	-	190
2	Flue Gas Velocity, m/s	19.93	18.28	16.81		17.24
3	Sulphur Dioxide, mg/Nm <sup>3</sup>	7.8	7.2	6.21		8.25
4	NOX (as NO <sub>2</sub> ) in ppmv	84	77	73		76
5	Particular matter, mg/Nm <sup>3</sup>	20.4	18.2	14.6		17.6
6	Carbon Monoxide, mg/Nm <sup>3</sup>	36	33	29		33
7	Gas Discharge, Nm <sup>3</sup> /hr	17359	15385	10584		8328

DG Set 1500 KVA -1



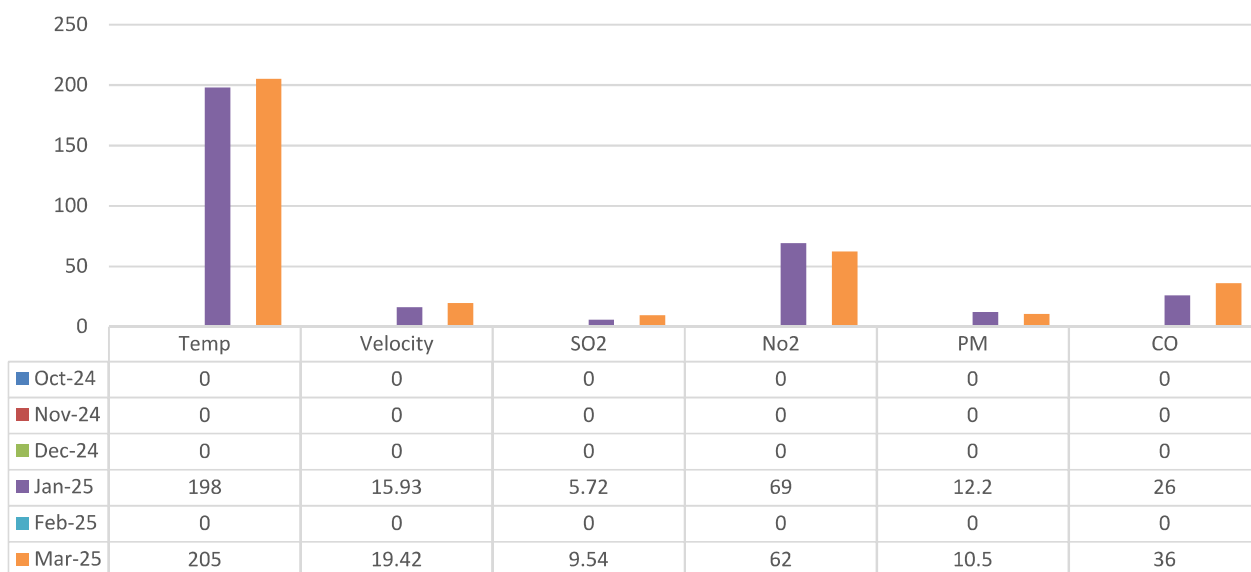
STACK MONITORING							
Location		DG 1500 KVA - 2					
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.No.	Parameters						
1	Stack Temperature, °C	210	203	196	-	182	-
2	Flue Gas Velocity, m/s	18.13	17.35	15.34		16.03	
3	Sulphur Dioxide, mg/Nm3	6.3	5.8	4.27		6.18	
4	NOX (as NO2) in ppmv	79	72	66		71	
5	Particular matter, mg/Nm3	16.9	15.1	12.5		15.4	
6	Carbon Monoxide, mg/Nm3	30	27	24		27	
7	Gas Discharge, Nm3/hr	16045	13694	8463		7159	

DG Set 1500 KVA -2



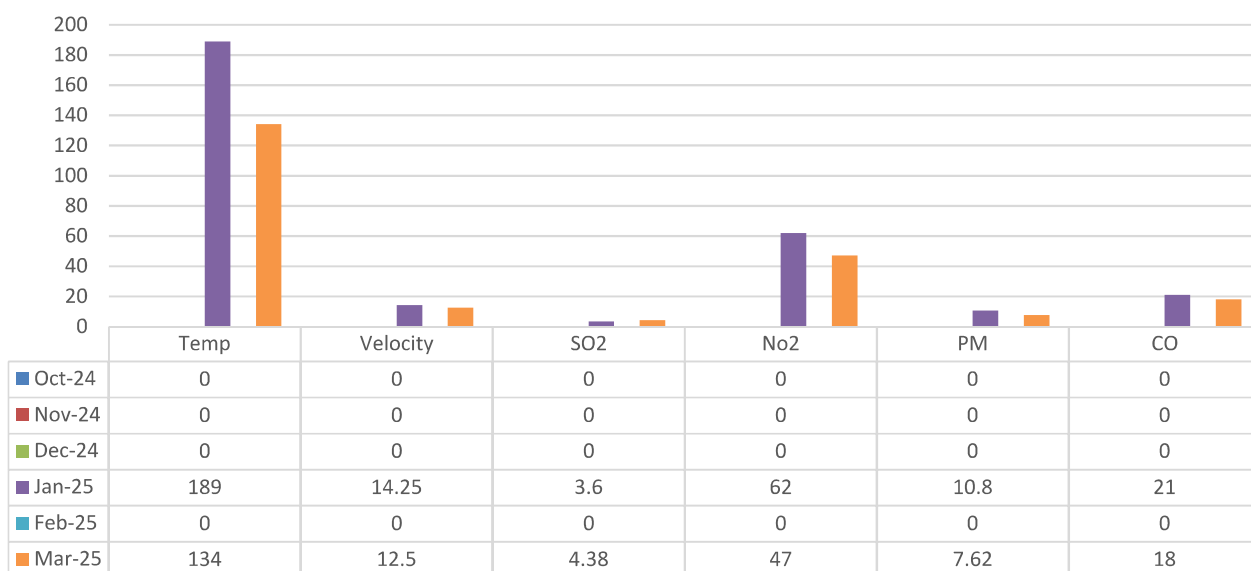
STACK MONITORING						
Location		DG 1500 KVA - 3				
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Mar-25
S.No.	Parameters					
1	Stack Temperature, °C	-	-	-	198	205
2	Flue Gas Velocity, m/s				15.93	19.42
3	Sulphur Dioxide, mg/Nm3				5.72	9.54
4	NOX (as NO2) in ppmv				69	62
5	Particular matter, mg/Nm3				12.2	10.5
6	Carbon Monoxide, mg/Nm3				26	36
7	Gas Discharge, Nm3/hr				7546	8750

DG Set 1500 KVA -3



STACK MONITORING							
Location		DG 125 KVA - 4					
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.No.	Parameters						
1	Stack Temperature, °C	-	-	-	189	-	134
2	Flue Gas Velocity, m/s				14.25		12.5
3	Sulphur Dioxide, mg/Nm3				3.60		4.38
4	NOX (as NO2) in ppmv				62		47
5	Particular matter, mg/Nm3				10.8		7.62
6	Carbon Monoxide, mg/Nm3				21		18
7	Gas Discharge, Nm3/hr						

DG Set 125 KVA -4



Parameter	Area Category	Total engine rating of the plant (includes existing as well as new generator sets)	Generator sets commissioning date		
			Before 1.7.2003	Between 1.7.2003 and 1.7.2005	On or after 1.7.2005
NO <sub>x</sub> (as NO <sub>2</sub> ) (At 15% O <sub>2</sub> , dry basis, in ppmv)	A	Up to 75 MW	1100	970	710
	B	Up to 150 MW			
	A	More than 75 MW	1100	710	360
	B	More than 150 MW			
NMHC (as C) (at 15% O <sub>2</sub> ), mg/Nm <sup>3</sup>	Both A and B		150	100	
PM (at 15% O <sub>2</sub> ), mg/Nm <sup>3</sup>	Diesel Fuels- HSD & LDO	Both A and B	75	75	
	Furnace Oils- LSHS & FO	Both A and B	150	100	
CO (at 15% O <sub>2</sub> ), mg/Nm <sup>3</sup>	Both A and B		150	150	

<sup>1</sup> Inserted by Rule 2(b) of the Environment (Protection) Second Amendment Rules, 2008 notified by G.S.R.280(E), dated 11.8.2008.

<sup>2</sup> Serial No.96 and entries relating thereto inserted by Rule 2 of the Environment (Protection) Third Amendment Rules, 2002 notified vide Notification G.S.R.489(E), dated 9.7.2002.

**iv. STP WATER SAMPLE ANALYSIS**

Water samples were collected at the following points.

- 25 KLD Inlet and Treated Water Outlet

**DETAILS OF STP WATER LOCATIONS**

STATION CODE	LOCATIONS	Geographical Location
STP – 1	25 KLD	13°16'15.33"N 80°20'0.46"E

Analysis results of the water sample collected from the above location are enclosed as Annexure - 5.

**ANNEXURE - 5 RESULTS OF STP WATER QUALITY DATA**

STP WATER													
Location		STP 25KLD INLET						STP 25KLD OUTLET					
Month & Year		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.N	Parameters												
1	pH @ 25°C	7.38	7.19	7.36	7.12	7.38	7.51	6.75	6.62	6.91	6.80	6.92	7.04
2	Total Suspended	116	124	115	110	98.0	115	22.0	25.0	20.0	16.0	12.0	17.0
3	BOD at 27°C for 3	50	58	51	45.0	37.0	50.0	15.0	17.0	13.0	10.0	8.0	14.0
4	Fecal Coliform	810	840	760	710	660	690	60	80	50	40	20	30
5	COD	120	140	110	90.0	70.0	110	40	56	40	30	20.0	50.0
6	Oil & Grease	3.0	3.5	2.5	2.0	1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7	Total Dissolved Solids	1040	1124	1010	940	878	960	870	910	840	780	710	756
8	Chlorides (as Cl)	415	432	406	380	361	375	364	380	365	350	336	348
9	Sulphates (as SO4)	52	58	53	46	42	48	39	43	38	33	30	36

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

## NOTIFICATION

New Delhi, the 13th October, 2017

**G.S.R. 1205(E).**—In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. **Short title and commencement.**—(1) These rules may be called the Environment (Protection) Amendment Rules, 2017.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I after serial number 104 and the entries relating thereto, the following serial number and entries shall be inserted, namely:—

Sl. No.	Industry	Parameters	Standards	
1	2	3	4	
		Effluent discharge standards (applicable to all mode of disposal)		
105	Sewage Treatment Plants (STPs)		Location	Concentration not to exceed
			(a)	(b)
		pH	Anywhere in the country	6.5-9.0
		Bio-Chemical Oxygen Demand (BOD)	Metro Cities*, all State Capitals except in the State of Arunachal Pradesh, Assam, Manipur, Meghalaya Mizoram, Nagaland, Tripura Sikkim, Himachal Pradesh, Uttarakhand, Jammu and Kashmir, and Union territories of	20

			Andaman and Nicobar Islands, Dadar and Nagar Haveli Daman and Diu and Lakshadweep	
			Areas/regions other than mentioned above	30
		Total Suspended Solids (TSS)	Metro Cities*, all State Capitals except in the State of Arunachal Pradesh, Assam, Manipur, Meghalaya Mizoram, Nagaland, Tripura Sikkim, Himachal Pradesh, Uttarakhand, Jammu and Kashmir and Union territory of Andaman and Nicobar Islands, Dadar and Nagar Haveli Daman and Diu and Lakshadweep	<50
			Areas/regions other than mentioned above	<100
		Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)	Anywhere in the country	<1000

\*Metro Cities are Mumbai, Delhi, Kolkata, Chennai, Bengaluru, Hyderabad, Ahmedabad and Pune.

**v. DRINKING WATER SAMPLE ANALYSIS**

Drinking Water samples were collected at the Canteen or Office Building. Analysis results of the water sample collected from the above location are enclosed as Annexure - 6.

**vi. RAW WATER SAMPLE ANALYSIS**

Raw water samples were collected at the Pond. Analysis results of the water sample collected from the above location are enclosed as Annexure - 7.

**ANNEXURE - 6 RESULTS OF WATER SAMPLE (DRINKING WATER) QUALITY DATA**

DRINKING WATER								
S.No.	Month & Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Colour	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.01	0.01	<0.1	<0.1	<0.1	<0.1
5	pH @ 25°C	-	6.83	6.71	6.87	6.75	6.92	7.10
6	Total Hardness as CaCO <sub>3</sub>	mg/l	21.3	16.8	14.2	20.4	26.8	18.8
7	Iron as Fe	mg/l	0.01	0.01	0.01	0.02	0.04	0.01
8	Chloride as Cl	mg/l	17.8	14.5	10.6	15.0	19.6	13.2
9	Total Residual Chlorine	mg/l	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)
10	Total Dissolved Solids	mg/l	48.6	39.0	30.2	43.5	58.1	37.5
11	Calcium as Ca	mg/l	4.32	3.51	2.95	3.81	4.97	4.52
12	Copper as Cu	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
13	Manganese as Mn	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
14	Sulphate as SO <sub>4</sub>	mg/l	0.79	0.75	0.69	1.03	2.0	1.0
15	Nitrate as NO <sub>3</sub>	mg/l	0.52	0.47	0.41	0.67	0.71	0.45
16	Fluoride as F	mg/l	0.06	0.04	0.02	0.04	0.06	0.03
17	Phenolic compounds as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
18	Mercury as Hg	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
19	Cadmium as Cd	mg/l	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)
20	Selenium as Se	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
21	Arsenic as As	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
22	Lead as Pb	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
23	Zinc as Zn	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
24	Anionic Detergents	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
25	Total Chromium as Cr	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
26	Phenolphthalein Alkalinity as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
27	Total Alkalinity as CaCO <sub>3</sub>	mg/l	22.4	17.2	14.6	21.4	28.6	20.5
28	Aluminium as Al	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
29	Boron as B	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
30	Magnesium as Mg	mg/l	2.57	1.95	1.66	2.67	3.49	1.86
31	Mineral Oil	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
32	Polynuclear Aromatic Hydrocarbons as [PAH]	mg/l	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)
33	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent
34	Cyanide as CN	mg/l	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)
35	E. coli	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent
36	Total Coliform	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent

## ANNEXURE - 7 RESULTS OF RAW WATER WATAER SAMPLE QUALITY DATA

DRINKING WATER								
S.No.	Month & Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Colour	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.43	0.36	0.28	0.33	0.37	0.26
5	pH @ 25°C	-	6.78	6.70	6.97	7.10	7.42	7.31
6	Total Hardness as CaCO <sub>3</sub>	mg/l	218	206	195	185	198	209
7	Iron as Fe	mg/l	0.06	0.04	0.02	0.04	0.07	0.09
8	Chloride as Cl	mg/l	249	230	215	202	215	228
9	Total Residual Chlorine	mg/l	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)	BDL (D.L.<0.1)
10	Total Dissolved Solids	mg/l	742	692	639	590	625	652
11	Calcium as Ca	mg/l	44.7	42.3	40.8	39.2	41.2	43.1
12	Copper as Cu	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
13	Manganese as Mn	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
14	Sulphate as SO <sub>4</sub>	mg/l	63.1	57.4	53.7	50.9	54.3	59.5
15	Nitrate as NO <sub>3</sub>	mg/l	11.5	10.2	8.9	7.54	8.15	9.67
16	Fluoride as F	mg/l	0.18	0.15	0.11	0.09	0.12	0.15
17	Phenolic compounds as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
18	Mercury as Hg	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
19	Cadmium as Cd	mg/l	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)	BDL (D.L.0.001)
20	Selenium as Se	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
21	Arsenic as As	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
22	Lead as Pb	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
23	Zinc as Zn	mg/l	0.021	0.018	0.014	0.011	0.014	0.012
24	Anionic Detergents	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
25	Total Chromium as Cr	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
26	Phenolphthalein Alkalinity as	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
27	Total Alkalinity as CaCO <sub>3</sub>	mg/l	338	310	283	260	281	298
28	Aluminium as Al	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
29	Boron as B	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
30	Magnesium as Mg	mg/l	26.0	24.5	22.8	21.4	23.5	24.9
31	Mineral Oil	mg/l	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)	BDL (D.L.0.01)
32	Polynuclear Aromatic Hydrocarbons as [PAH]	mg/l	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)	BDL (D.L. 0.0001)
33	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent
34	Cyanide as CN	mg/l	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)	BDL (D.L. 0.01)
35	E. coli	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent
36	Total Coliform	CFU/100ml	Absent	Absent	Absent	Absent	Absent	Absent

### vii. Marine Sampling

Marine Water samples and sediment samples were collected at locations South side berth and North side berth. Analysis data of Marine and sediments as represented in Annexure - 8 & 9.

#### DETAILS OF MARINE WATER AND SEDIMENT LOCATIONS

STATION CODE	LOCATIONS	Geographical Location
MW - 1 / MS - 1	CB - 1	13 <sup>0</sup> 18' 50" N 80 <sup>0</sup> 20' 51" E
MW - 2 / MS - 2	CB - 2	13 <sup>0</sup> 18' 46" N 80 <sup>0</sup> 20' 49" E
MW - 3 / MS - 3	BERTH - 3	13 <sup>0</sup> 18' 41" N 80 <sup>0</sup> 21' 4" E

Fig - 5. Water and Marine Sampling Locations



## ANNEXURE – 8 RESULTS OF MARINE WATER QUALITY DATA

MARINE WATER														
S.NO	PARAMETER	UNITS	Berth Area											
			Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25	
Physicochemical Parameters			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	Colour	Hazan	25	38	23	35	20	32	16	27	19	30	26	37
2	Odour	-	Unobjecti onable	Unobjectio nable	Unobjecti onable	Unobject ionable	Unobject ionable	Unobject ionable	Unobject ionable	Unobject ionable	Unobject ionable	Unobjec tionable	Unobject ionable	Unobjec tionable
3	pH @ 25°C	-	7.65	7.78	7.74	7.88	7.80	7.95	7.51	7.63	7.72	7.85	7.39	7.67
4	Temperature	°C	27.6	27.1	27.5	27.0	27.3	26.8	27.1	26.6	27.6	26.9	27.2	27.7
5	Turbidity	NTU	32	53	30	51	26	46	30	54	28	50	36.0	54.0
6	Total Suspended Solids	mg/L	21	35	18	32	15	27	12	23	17	28	23	34
7	BOD at 27 oC for 3 days	mg/L	17.0	13.0	15.0	11.0	13.0	9.0	18.0	13.0	20.0	16.0	17.0	12.0
8	COD	mg/L	58.4	48.1	56.0	45.8	52.5	41.8	58.0	45.0	65.1	52.9	61.0	48.0
9	Dissolved oxygen	mg/L	6.5	5.3	6.3	5.5	6.5	5.8	5.6	5.2	5.4	5.0	5.9	5.2
10	Salinity at 25 °C	ppt	41.5	37.1	41.2	36.8	41.0	36.5	36.4	31.9	39.2	34.6	31.6	27.6
11	Oil & Grease	mg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL 1.0)	BDL (DL : 1.0)	BDL (DL 1.0)	BDL (DL : 1.0)	BDL (DL 1.0)	BDL (DL : 1.0)	BDL (DL 1.0)	BDL (DL : 1.0)	BDL (DL 1.0)
Nutrient Parameters														
12	Nitrate as No3	mg/L	9.4	11.2	8.5	11.0	7.89	10.2	7.29	9.54	8.04	10.0	7.43	8.92
13	Nitrite as No2	mg/L	3.92	2.31	3.59	2.23	3.38	2.14	3.05	2.43	3.61	2.76	3.16	2.18
14	Ammonical Nitrogen as N	mg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL(D L : 1.0)
15	Total Nitrogen	mg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL(DL : 1.0)	BDL(D L : 1.0)
16	Inorganic phosphates as PO4	mg/L	5.54	9.21	5.47	9.05	5.21	8.72	4.95	7.98	5.42	8.67	4.92	8.14
17	Silica as SiO2	mg/L	6.02	7.50	5.95	7.37	5.80	7.16	4.62	7.83	5.39	8.73	5.06	7.92
18	Particulate Organic Carbon	µgC/L	15	24	13	22	11	19	14	23	17	26	13	21
19	Petroleum Hydrocarbons	µg/L	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL (DL : 1.0)	BDL(DL : 1.0)	BDL(D L : 1.0)
Heavy Metals														
20	Cadmium as Cd	mg/L	BDL (DL : 0.001)	BDL (DL : 0.01)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
21	Copper as Cu	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
22	Total Iron as Fe	mg/L	0.48	0.65	0.45	0.61	0.42	0.57	0.48	0.63	0.53	0.67	0.48	0.61
23	Zinc as Zn	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
24	Lead as Pb	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
25	Mercury as Hg	mg/L	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)	BDL (DL : 0.001)
26	Nickel as Ni	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
27	Total Chromium as Cr	mg/L	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)	BDL (DL : 0.01)
Bacteriological Parameters														
28	Escherichia Coli (ECLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
29	Faecal Coliform (FCLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
30	Pseudomonas aeruginosa (PALO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
31	Streptococcus Fecalis (SFCLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
32	Shigella (SHLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
33	Salmonella (SLO)	per100ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
34	Total Coliform (TC)	per100m	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

35	Total Viable Count (TVC)	cfu/ml	71	87	62	79	57	76	63	82	60	78	54	74
36	Vibrio cholera (VC)	per100m	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
37	Vibrio parahaemolyticus (VPA)	per100m	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

## CB - 1

Month & Year			Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25	
S.No	Parameters	Unit	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
38	Primary Productivity	mg C/m3 /hr	9.48	8.49	9.50	8.52	9.52	8.53	10.9	8.02	10.2	7.67	9.1	7.34
39	Chlorophyll a	mg /m3	7.25	5.15	7.27	5.18	7.29	5.20	6.83	4.22	5.98	3.85	4.62	3.19
40	Phaeopigment	mg /m3	5.35	4.87	5.39	4.88	5.41	4.90	5.12	4.64	4.71	4.02	4.04	3.83
41	Total Biomass	ml /100 m3	1.94	2.47	1.96	2.49	1.98	2.51	2.03	2.76	1.85	2.38	1.46	2.09

## PHYTOPLANKTON

42	Bacteriastrium hyalinum	nos/ml	40	18	43	21	46	23	54	26	50	24	61	29
43	Bacteriastrium varians	nos/ml	35	25	38	28	41	30	47	34	44	31	50	37
44	Chaetoceros didymus	nos/ml	41	34	35	29	39	33	44	38	40	35	47	31
45	Chaetoceros decipiens	nos/ml	20	16	18	12	15	08	20	12	17	09	23	14
46	Biddulphia mobiliensis	nos/ml	23	20	28	23	31	25	37	21	33	17	39	21
47	Ditylum brightwellii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
48	Gyrosigma sp	nos/ml	29	18	31	20	34	23	29	20	24	16	20	12
49	Cladophyxis sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
50	Coscinodiscus centralis	nos/ml	34	27	39	29	43	31	36	26	32	23	26	20
51	Coscinodiscus granii	nos/ml	33	25	31	23	34	26	30	23	27	19	21	15
52	Cylotella sps	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
53	Hemidiscus hardmanianus	nos/ml	61	45	65	48	60	43	69	48	62	44	54	38
54	Laudaria annulata	nos/ml	36	39	38	43	34	29	42	36	38	31	31	24
55	Pyropacus horologicum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
56	Pleurosigma angulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
57	Leptocylindrus danicus	nos/ml	21	14	17	11	23	14	20	11	16	08	13	05
58	Guinardia flaccida	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
59	Rhizosolenia alata	nos/ml	33	24	36	27	41	32	37	28	32	25	27	21
60	Rhizosolenia imbricata	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
61	Rhizosolenia semispina	nos/ml	59	35	63	38	58	34	52	28	47	23	40	18
62	Thalassionema nitzschioides	nos/ml	30	34	28	32	31	25	27	21	24	19	21	15
63	Triceratium reticulatum	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
64	Ceratium trichoceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
65	Ceratium furca	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
66	Ceratium macroceros	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
67	Ceracium longipes	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## ZOOPLANKTONS

68	Acrocalanus gracilis	nos/ml	57	30	62	33	65	39	58	43	53	35	44	30
69	Acrocalanus sp	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
70	Paracalanus parvus	nos/ml	35	31	37	24	41	28	48	31	45	28	41	24
71	Eutintinus sps	nos/ml	29	18	25	15	21	13	27	18	22	15	27	19
72	Centropages furcatus	nos/ml	45	25	49	28	45	33	49	38	43	31	51	37
73	Corycaeus dana	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
74	Oithona brevicornis	nos/ml	49	32	53	34	59	37	66	46	61	42	69	47
75	Euterpina acutifrons	nos/ml	49	42	51	45	55	48	50	42	46	37	48	32
76	Metacalanus aurivilli	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
77	Copepod nauplii	nos/ml	25	21	29	20	31	23	26	19	22	16	19	13
78	Cirripede nauplii	nos/ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
79	Bivalve veliger	nos/ml	17	13	19	14	23	18	17	13	14	10	10	8
80	Gastropod veliger	nos/ml	23	12	26	16	31	20	37	26	31	21	23	17

## ANNEXURE - 9 RESULTS OF MARINE SEDIMENT QUALITY DATA

SEA SEDIMENT								
Location		CB – 1						
Month & Year		Uni	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
S.No.	Parameters							
1	Total organic matter	%	0.74	0.69	0.64	0.60	0.55	0.43
2	% Sand	%	54	51	54	52	58	54
3	%silt	%	36	34	36	33	31	27
4	%Clay	%	10	15	10	15	11	19
5	Iron (as Fe)	mg/kg	26.9	25.8	23.6	20.1	22.6	26.4
6	Aluminium (as Al)	mg/kg	8054	7859	7610	7325	7510	7193
7	Chromium (as cr)	mg/kg	51	48	42	38	41	34
8	Copper (as cu)	mg/kg	39	36	31	28	33	30
9	Manganese (as Mn)	mg/kg	63	60	57	61	65	61
10	Nickel (as Ni)	mg/kg	41	39	34	39	36	32
11	Lead (as Pb)	mg/kg	10	08	06	08	10	7
12	Zinc (as Zn)	mg/kg	236	231	210	198	105	96
13	Mercury(as Hg)	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
14	Total phosphorus as P	mg/kg	68.5	66.1	61.8	56.5	59.8	52.1
15	Octane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
16	Nonane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
17	Decane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
18	Undecane	mg/kg	0.47	0.45	0.38	0.35	0.40	0.42
19	Dodecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
20	Tridecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
21	Tetradecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
22	Phntadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
23	Hexadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
24	Heptadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
25	Octadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
26	Nonadecane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
27	Elcosane	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
I. Nematoda								
28	Oncholaimussp	mg/kg	48	51	53	50	47	41
29	Tricomasp	mg/kg	32	35	39	36	33	27
II. Foraminifera								
30	Ammoniaebecarii	mg/kg	33	36	33	27	25	22
31	Quinquilinasp	mg/kg	26	23	28	24	21	17
32	Discorbinellasp.,	mg/kg	31	29	32	37	33	27
33	Bolivinaspathulata	mg/kg	28	30	38	42	39	35
34	Elphidiumsp	mg/kg	21	23	24	28	25	20
35	Noniondepressula	mg/kg	24	27	29	31	29	24
III. Molluscs-Bivalvia								
36	Meretrixveligers	mg/kg	34	36	31	36	32	26
37	Anadoraveligers	mg/kg	20	22	26	24	22	17
	Total No. of individuals	mg/kg	297	312	333	335	324	256
	Shanon Weaver Diversity Index	mg/kg	2.65	2.27	2.28	2.03	2.10	2.26

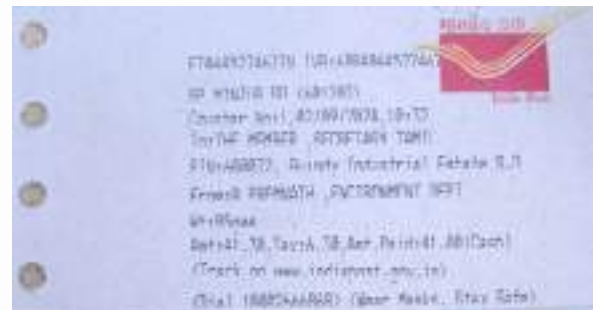
**ANNEXURE – 2**  
**(Annual Environment Statement in Form-V)**

AECTPL/ENV/TNPCCB-ES/2024/41

Date: 27.08.2024

To,

The Member Secretary,  
Tamil Nadu Pollution Control Board,  
No. 76, Mount Salai,  
Guindy,  
Chennai - 600 032.



Dear Sir,

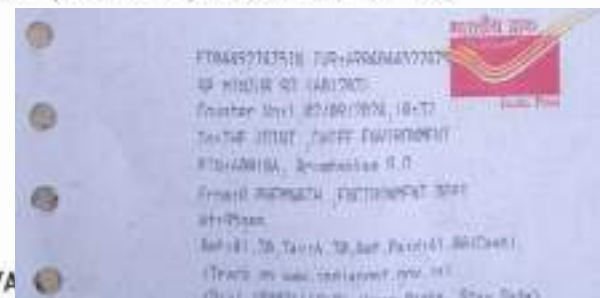
**Sub: Adani Ennore Container Terminal Private Limited (AECTPL) - Submission of Environmental Statement (Form V) for the financial year ending 31<sup>st</sup> March 2024 - Reg.**

Ref: 1. Consent to Operate Order No. 2108136876855 dated 24.08.2021 under Water Act  
2. Consent to Operate Order No. 2108236876855 dated 24.08.2021 under Air Act

With reference to the captioned subject and cited references above, we submit herewith the Environmental Statement of M/s Adani Ennore Container Terminal Private Limited, in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31<sup>st</sup> March 2024.

Submitted for your kind information and records.

Thanking You



For, M/s. ADANI ENNORE CONTAINER TERMINAL PRIVATE LIMITED

R. Premnath

Head - Environment & Sustainability

Enclosure: as above

Copy To:

1. The Joint Chief Environmental Engineer, Tamilnadu Pollution Control Board, First Floor, 950/1, Poonamallee High Road, Arumbakkam, Chennai-600 106
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, Gummidipoondi - 601201.

Adani Ennore Container Terminal Pvt Ltd  
Adani House  
Nr Mithakhali Circle, Navrangpura  
Ahmedabad 380 009  
Gujarat, India

Tel +91 79 2656 56 5555  
Fax +91 79 2555 5500  
info@adani.com  
www.adani.com  
CIN:U61200GJ2014PTCO78795

AECTPL/ENV/TNPCCB-ES/2024/41

Date: 27.08.2024

To,

The Member Secretary,  
Tamil Nadu Pollution Control Board,  
No. 76, Mount Salai,  
Guindy,  
Chennai - 600 032.

Dear Sir,

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Submitted for your kind information and records.

Thanking You

For, M/s. ADANI ENNORE CONTAINER TERMINAL PRIVATE LIMITED.



R. Premnath



Head - Environment & Sustainability

Enclosure: as above

Copy To:

1. The Joint Chief Environmental Engineer, Tamilnadu Pollution Control Board, First Floor, 950/1, Poonamallee High Road, Arumbakkam, Chennai-600 106
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, Gummidipoondi - 601201.

Adani Ennore Container Terminal Pvt Ltd  
Adani House  
Nr Mithakhali Circle, Navrangpura  
Ahmedabad 380 009  
Gujarat, India

Tel +91 79 2656 56 5555  
Fax +91 79 2555 5500  
info@adani.com  
www.adani.com  
CIN:U61200GJ2014PTCO78795

### **Form-V**

(See rule 14 of Environment (Protection) Rules, 1986)

#### **Environmental Statement for the financial year ending 31<sup>st</sup> March 2024**

#### **PART – A**

i) <b>Name and Address of the owner / occupier of the industry operation or process</b>	:	<b>Mr. Madhanmohan T</b> <b>Chief Executive Officer</b> Adani Ennore Container Terminal Private Limited C/O Kamarajar Port Limited Vallur Post, Ennore Thiruvallur District- 600 120 Tamil Nadu, India
ii) <b>Industry Category</b>	:	<b>Primary : Red</b> <b>Secondary : 1046 – Ports and Harbour, Jetties and Dredging Operations.</b>
iii) <b>Production Capacity</b>	:	<b>Cargo Handling Capacity: 11.68 MMTPA of Container cargo (as per CTO)</b>  <b>Cargo handled during 2023-34 is 10.06 MMTPA</b>
iv) <b>Year of establishment</b>	:	<b>2016</b>
v) <b>Date of the last environmental statement submitted</b>	:	<b>Vide our Letter No. AECTPL/TNPCB/GMP/ES/2023/26 dated 23.09.2023</b>

**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

**(i) Water Consumption**

S. No	Water Consumption (m <sup>3</sup> / Day)	2022-2023	2023-2024
1.	Process	NIL	NIL
2.	Cooling	NIL	NIL
3.	Domestic	12.1	15.4

The unit does not undergo any manufacturing process. The water consumed is mainly for Firefighting, dust suppression, Greenbelt development, etc.

Name of the products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Not Applicable	NIL	NIL

**(ii) Raw Material Consumption**

S. No.	Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
			During the previous financial year (2022-23)	During the current financial year (2023-24)
1	Not Applicable	Not Applicable	NIL	NIL

The unit does not undergo any manufacturing process. Hence, there is no raw material consumption.

## PART – C

### POLLUTION DISCHARGE TO ENVIRONMENT/ UNIT OF OUTPUT

(Parameters as specified in the consent issued)

Pollution	Quality of Pollutants Discharged (Mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reasons																												
a) Water																															
BOD (Kg/KL)	0.005485	12.92 mg/L	Nil																												
TSS (KG/KL)	0.010750	18.08 mg/L	Nil																												
STP Treated Water Characteristics: -																															
<table border="1"> <thead> <tr> <th>Parameter</th><th>Consent Limit</th><th>Actual</th><th>% Variation with prescribed standard</th></tr> </thead> <tbody> <tr> <td>pH</td><td>5.5-9</td><td>6.52</td><td>-Nil-</td></tr> <tr> <td>Total Suspended Solids (mg/l)</td><td>30</td><td>18.08</td><td>-Nil-</td></tr> <tr> <td>BOD (3 days at 27°C) (mg/l)</td><td>20</td><td>12.92</td><td>-Nil-</td></tr> <tr> <td>Fecal Coliform (MPN/100ml)</td><td>1000</td><td>87</td><td>-Nil-</td></tr> <tr> <td>COD</td><td>-</td><td>41</td><td>-Nil-</td></tr> <tr> <td>Total Dissolved Solids</td><td>-</td><td>644</td><td>-Nil-</td></tr> </tbody> </table>				Parameter	Consent Limit	Actual	% Variation with prescribed standard	pH	5.5-9	6.52	-Nil-	Total Suspended Solids (mg/l)	30	18.08	-Nil-	BOD (3 days at 27°C) (mg/l)	20	12.92	-Nil-	Fecal Coliform (MPN/100ml)	1000	87	-Nil-	COD	-	41	-Nil-	Total Dissolved Solids	-	644	-Nil-
Parameter	Consent Limit	Actual	% Variation with prescribed standard																												
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Fecal Coliform (MPN/100ml)	1000	87	-Nil-																												
COD	-	41	-Nil-																												
Total Dissolved Solids	-	644	-Nil-																												
All the parameters are well within the prescribed standards.																															
b) Air	<p>DG sets are provided as standby power sources and are used during power failure only. The Height of DG stacks as per CPCB/TNPCB Standards. All the DG Sets are retrofitted to reduce the Particulate Matter emission level. Efficiency of the retrofitting equipment is observed above 90% against the TNPCB requirement of &gt;70%.</p> <p>All the monitored parameters are well within the prescribed standards.</p> <p>DG stack emission report is enclosed as <b>Annexure 1</b>.</p>																														

**PART-D**

**HAZARDOUS WASTES**

(As specified under Hazardous Waste Management and Handling Rules 2016)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous Financial Year (2022-23)	During the current Financial Year (2023-24)
(a) From Process	Nil	(5.1) Used or Spent Oil – 2.411MT
(b) From Pollution control facilities	NA	NA

**PART-E**

**SOLID WASTES**

TOTAL QUANTITY GENERATED			
Solid Waste		During the previous Financial Year (2022-23)	During the current Financial Year (2023-24)
a)	From process	NIL	NIL
b)	From pollution control facilities- STP	106.8 kgs	107 Kgs
c)	1. Quantity recycled or reutilized within the Unit		
	a) STP Sludge	106.8 kgs	107 Kgs
	2. Sold	NIL	NIL
	3. Disposed	NIL	NIL

## **PART-F**

Please specify the characterization (In terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

S.No.	Name of the Hazardous waste	Waste type	Waste disposal	Physical status
1	Sludge and filters contaminated with oil	Incinerable	Authorised HW recyclers	Solid
2	Wastes or residues containing oil	Recyclable	Authorised HW recyclers	Semi Solid
3	Empty barrels/containers /liners contaminated with hazardous chemicals /wastes	Recyclable	Authorised HW recyclers	Solid
4	Cargo residue, washing water and sludge containing oil	Recyclable	Authorised HW recyclers	oily
5	Used or spent oil	Recyclable	Authorised HW recyclers	Oily

## **PART-G**

**Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production**

- **"Zero Waste to Landfill" Initiative** – No waste is being sent to landfill or incineration facility. AECTPL is having Integrated Waste Management System (IWMS) to proper segregate & recover the materials and are handled as per 5R (Reduce, Reuse, Recycle, Recover and Reprocess) principle.
- AECTPL has awarded with Zero Waste to Landfill Management System (ZWTL MS 2020) from TÜV Rheinland India Pvt. Ltd (**Annexure – 2**).
- Hazardous wastes include Used oil, Filters contaminated with Oil and Empty barrels / containers contaminated with hazardous wastes. All the hazardous wastes are collected and stored properly in Integrated Waste Management Shed & are being disposed to TNPCB authorized /registered recyclers in line with Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 (As amended).
- The used batteries and E –wastes are also stored in Integrated Waste Management Shed and disposed off through approved vendor in line to E-Waste Management Rules 2016 (as amended).
- Hazardous waste Annual returns in Form 4 was submitted in line with the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016.

- E-waste returns in Form 3 was submitted in line with the E-waste Management Rules, 2016.
- 100% utilization of STP sludge for greenbelt maintenance as manure.
- AECTPL certified as "Single Use Plastic (SUP) Free" site from CII-ITC Centre of Excellence for Sustainable Development.
- Adani Ennore Container Terminal Private Limited has electrified cranes only and hence the diesel consumption by the cranes is eliminated completely.
- All the DG Sets are retrofitted to reduce the Particulate Matter emission level. Efficiency of the retrofitting equipment is observed above 90% against the TNPCB requirement of >70%.
- All the domestic wastewaters being generated at port is treated at existing sewage treatment plant and the treated water is being reused within port premises for gardening/horticulture purpose.
- Sewage Treatment Plant (STP) is in continuous operation and the treated effluent water quality is meeting the TNPCB norms. The total cost spent on STP operation during the year 2023-24 is Rs. 5.07 Lakhs.
- Regular Environmental monitoring is being carried out through NABL accredited laboratory. All the monitored environmental parameters are well within the prescribed norms & the details of monitored data is being submitted regularly to TNPCB, CPCB, MoEF&CC and other concerned authorities.
- Unit is continuously developing and maintaining Greenbelt within the port premises.
- Implemented Integrated Waste Management System (IWMS) for managing all types of wastes in line with 5R (Reduce, Reuse, Recycle, Recover and Reprocess) principle.

#### **PART-H**

**Additional measures/investment proposal for Environmental protection including abatement of pollution, prevention of pollution.**

<b><u>Regular Expenditure (Cost in INR lakhs/year)</u></b>		
<b>S. No.</b>	<b>Description</b>	<b>Cost</b>
1	Environmental monitoring & Environment Studies	5.83
2	Green belt & Horticulture development	5.82
3	STP operation and maintenance cost	5.07
4	Operation & Maintenance of Integrated Waste Management System	3.65
5	Housekeeping	8.44

## **PART-I**

### **ANY OTHER PARTICULARS IN RESPECT TO ENVIRONMENT**

- Handling of all types of wastes in line with 5R (Reduce, Reuse, Recycle, Recover and Reprocess) Principle.
- Paperless Operation is in place (Except for Statutory requirements) using application tools and Software – Terminal Info Gateway (TIG).
- Energy Conservation Committee to measure the amount of energy consumed and take actions to reduce the energy consumed through port operations
- Water Warriors committee to identify and reduce the water consumption. The committee would propose innovative water solutions.
- Integrated Management System (ISO 9001:2015, 14001:2015, 45001:2018 and 50001:2018) certified Port.
- Obtained "5S" Certification at MIDPL
- AECTPL is bestowed with the top honors and the details of accolades received during the year 2023-24 are mentioned here under (photos attached at Annexure-3);
  - EKDKN's "Platinum Award" under Environment Improvement category.
- **Community Development:**

Kattupalli Port has been propagating the community development through a broad based Corporate Social Responsibility (CSR) program in the project area through Adani Foundation since 2018 to ensure inclusive growth and catering to the developmental needs of the community at the grassroots level. The project area encompasses 11 panchayats covering about 46 villages within 10 Km radius of the Kattupalli Port. The key interventions introduced in the project area are as under:

- Education
- Community Health
- community Infrastructure facility
- Sustainable Livelihood development
- Tree Plantation & Bio-Diversity development program
- Special Focus Groups
- COVID / Cyclone relief measures

Significant highlights during the year 2023-24 are as follows.

- **Education:** A total of 642 students benefitted through 21 AEEC center this (March) month. Encouraging their studies and concentrating slow learners to develop their fundamental core and supporting their academic subjects.
  - 146 students from AEEC program have written 10th Std Board Exams.

- Supported the government school students on the occasion of Republic Day celebration-On January 26, Republic Day, we extend our support to schools in Ramanathapuram and Lighthouse Kuppam to celebrate this significant national occasion. Through various activities such as flag hoisting ceremonies, cultural performances, and educational programs, we aim to instill a sense of patriotism and civic responsibility among students. Additionally, we provide resources and assistance to ensure the smooth organization of these events, emphasizing the importance of commemorating India's democratic heritage and unity in diversity. By actively participating in Republic Day celebrations, we contribute to fostering a strong sense of national identity and pride among students in these communities.
- Through the Udaan project 2500 students visited the port and got exposure to port related work and its functions.
- **Health:** Through the Mobile Health care program, we could be able to provide medical health care for the rural communities especially the elders in the community. From Oct 23 to March 24, we reached 11348 persons.70% of beneficiaries are from the coastal communities.
- **Suposhan:** Through Suposhan program we have provided our support to 3200 persons: Pregnant women, Lactating Mothers, Adolescent Girls & Children.
  - We have provided a Dengue awareness program in Thiruvellaivoyal government Higher Secondary School where 420 students benefited.
  - We have got an award as a Change Maker in health care in providing medical support for the elderly population.

#### **Sustainable Livelihood Development:**

- 100 farmers successfully completed the 1st year of organic certification process and received 1st year of organic scope certification. The marketing plan also aligned with the farmers.
- In the presence of district administration, Agriculture department officials and MLA the farmers received their organic scope certification.
- 18 women were supported to establish 6 group business units in providing livelihood support for the rural women.
- Established individual livelihood units for 4 persons with disabilities and 2 widows and destitute.
- 20 pull carts provided to persons with disabilities, widows and destitute in enhancing their livelihood to meet their daily needs.
- 120 women were provided skill-based training from our Adani Skill Development Program out of which 80 got trained in tailoring and 40 of them got trained in Basic computer and GST.

- Through these veterinary camps we could be able to reach 2078 cattle. In these camps we addressed diseases like infection diseases, dysentery, and other seasonal diseases. The cattle owners are happy and thanked Adani Foundation for helping their cattle during the difficult situations since many a times they lost many cattle, they could not be able to reach the hospital due to transportation and not able to afford to avail the services.
- **Community Infrastructure Development:** We desilted boat parking areas for 14 fishing communities, created boat parking area for one fishing community and created a new canal for Iruvals community which will help them for their livelihood. Through this program 5827 families benefited.
  - Started to build a community Hall for fishing community in Sathankuppam. The building will be handed over to the community in May 2024. 520 Families will benefit directly through this project.
  - Drinking Water support: 1000 LPH with ATM based RO plant established for Thiruvellaivoyal and Kattuppall Kuppam- through which project 620 families.
  - Three 100 LPH RO plant established for three government schools since the students could not able to get quality drinking water. The students were happy about our support.

Date:

(Signature of a person carrying out an industry operation or process)

Name : **Madhanmohan T**

Designation: **Chief Operating Officer**

Address : Adani Ennore Container Terminal Pvt Ltd  
C/O Kamarajar Port Limited  
Vallur post, Ennore  
Thiruvallur District- 600 120.



**KAMARAJAR PORT LIMITED**



**Compliance Report**

**On**

**Ministry's guidelines for**

**DEVELOPMENT OF ADDITIONAL COAL BERTHS (CB3 AND  
CB4) AT KAMARAJAR PORT, TAMIL NADU BY M/S.  
KAMARAJAR PORT LTD.,**

**Point wise compliance report on Ministry's guidelines for the Kamarajar Ports project "Development of additional coal berths (CB3 and CB4) at Kamarajar Port, Tamil Nadu by M/s. Kamarajar Port Limited (Formerly known as Ennore Port Limited)- Environmental and CRZ clearance-reg.**

**Ref: MoEF's Notification F.No.11-51/2012-IA.III dated 12<sup>th</sup> March 2015**

**Construction of Coal Berth No. 3**

Construction of Coal berth No 3 for TNEB was planned for a capacity of 9 MTPA at an estimated cost of 209.68 crores. The agreement was signed between M/s ITD Cementation India Ltd., on 20<sup>th</sup> January 2015, and the work was commenced on 02<sup>nd</sup> June 2015 and completed on 13.12.2017. Though the berth construction was completed on 13.12.2017, since the other berth infrastructure being constructed, the terminal is yet to commission.

**Construction of Coal Berth No. 4**

Construction of Coal berth No 4 for TNEB was planned for a capacity of 9 MTPA at an estimated cost of 255.79 crores. The agreement was signed between M/s Afcons Infrastructure Ltd., on 20<sup>th</sup> July 2015, and the work was commenced on 19<sup>th</sup> August 2015 and completed on 31.05.2018. Though the berth construction was completed on 31.05.2018, since the other berth infrastructure being constructed, the terminal is yet to commission.

<b>S.No</b>	<b>Specific Conditions</b>	<b>Compliance Status</b>
<b>A (i)</b>	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974.	<b>Complied with.</b>  Tamil Nadu Pollution Control Board has accorded consent to Establish for the project vide Consent Order No. 15061355540 dated 31.8.2015 and Proceedings No. T6/TNPCB/F.0044AMB/RL/AMB/W/2015 dated 31.8.2015 for Water and Proceedings No. T6/TNPCB/F.0044AMB/RL/AMB/A/2015 dated 31.8.2015 for Air.
(ii)	Dust screens shall be provided with a height of 2 meter above the maximum stack height. Water sprinkling shall be carried out for settling dust. Three layers of green belt of all growing trees shall be provided on all sides.	<b>Agreed to comply</b> during operation phase.

(iii)	Water sprinkler should be provided in the area of coal loading and unloading, storage and vehicle path/roads.	<b>Agreed to comply.</b>
(iv)	Energy conservation measures shall be provided which may include use of solar panels, wind mill etc.	<b>Complied with.</b>  At present, port and its terminal operators have installed solar power plant of capacity 1.32 MWh and drawing renewable energy.
(v)	There shall be no washing of conveyor belt.	<b>Agreed to comply.</b>
(vi)	All the conditions stipulated by Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide Ltr No. 23187 /EC.3/2014-1,dated 16.12.2014, shall be complied with.	<b>Agreed to comply.</b>
(vii)	All the recommendation of the EIA/EMP, Disaster Management Plan shall be strictly complied within letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF & CC along with half yearly compliance report to MoEF & CC - RO.	<b>Agreed to comply.</b>
(viii)	Cargo shall be unloaded directly into hopper from the ship and transportation of coal shall be through covered/closed trucks/ rail only. Closed conveyor belt shall be used for loading the product in the barges.	The project is yet to be commissioned. Cargo shall be unloaded directly into hopper from the ships and transported through elevated closed conveyor systems to the stack yard/thermal power plants TNEB.
(ix)	The dredge material shall be reused for low level rising wherever possible and excess shall be dumped into sea at the designated dumping areas identified based on mathematical model studies.	<b>Agreed to comply.</b>  Portion of the dredged material was dumped in the sea.
(x)	To prevent discharge of sewage and other liquid waste including ballast into marine environment, adequate	<b>Agreed to comply.</b>

	system for collection, treatment and disposal of liquid waste must be provided.	
(xi)	Necessary arrangements for the treatment of the effluents and solid waste must be made and it must be ensured that the untreated effluents and solid wastes are not discharged into the water or on the beach; and no effluent or solid waste shall be discharged on the beach.	<b>Agreed to comply.</b>
(xii)	The quality of treated effluents, solids wastes, emission and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	<b>Complied with.</b>  Monitoring of ambient air, marine water, noise levels were carried out during construction phase. The same will be continued during operation phase too.
(xiii)	The project proponent shall set up separate Environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	<b>Complied with.</b>  Port is having Environmental Cell under HSE-Division of Marine Services Department, headed by General Manager (MS). The compliance of Environmental Management Plan of the Port is monitoring by Environmental Cell of HSE division.
(xiv)	The commitment made by the proponent to the issues raised during Public Hearing shall be implemented by the Proponent.	<b>Noted for compliance.</b>
(xv)	Corporate Environment Responsibility:  a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.  b) The Environment Policy shall	<b>Complied with.</b>  Kamarajar Port Limited is having an Environmental Management System Policy. The environmental safeguard measures as laid down in the policy are being implemented.

	<p>prescribe for standard operating process/producers to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.</p> <p>c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.</p> <p>To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</p>	<p><b>Agreed to comply.</b></p> <p><b>Agreed to comply.</b></p>
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#### **B. General conditions**

<b>S.No</b>	<b>General Conditions</b>	<b>Compliance Status</b>
(i)	Appropriate measures must be taken while understanding digging activities to avoid any likely degradation of water quality.	<p><b>Agreed to comply.</b></p> <p>Port is regularly monitoring the marine water quality during the construction activities.</p>
(ii)	Full support shall be extended to the officers of this Ministry/Regional Office at Chennai by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	<p><b>Agreed to comply.</b></p> <p>Full support will be extended to the officers of the Ministry/Regional office at Chennai.</p>

(iii)	A six-Monthly monitoring report shall need to be submitted by the project proponent to the Regional Office of this Ministry at Chennai regarding the implementation of the stipulated conditions.	<b>Complied with.</b>
(iv)	Ministry of Environment, Forest & Climate Change or any other component authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	<b>Agreed to comply.</b>
(v)	The Ministry reserves the right to revoke this clearance if any of the condition stipulated are not complied with the satisfaction of the Ministry.	<b>Agreed to comply.</b>
(vi)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest & Climate Change.	<b>Agreed to comply.</b>  There is no change in the project profile.
(vii)	The project proponent shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	<b><u>Construction of Coal Berth No. 3</u></b> Coal berth No 3 for TNEB was planned for a capacity of 9 MTPA at an estimated cost of 209.68 crores.  <b><u>Date of financial closure- internal resources:</u></b> Date of final approval of the project by concerned authorities- KPL Board approved it on 9.6.2015  Date of start of land development works- 2.6.2015.  <b><u>Construction of Coal Berth No. 4</u></b> Construction of Coal berth No 4 for TNEB was planned for a capacity of 9 MTPA at an estimated cost of 255.79 crores.

		<b><u>Date of financial closure - internal resources:</u></b> Date of final approval of the project by concerned authorities.  KPL Board approved it on 21.2.2015 Date of start of land development works-19.8.2015.
(viii)	A copy of the clearance letter shall be marked to concern Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	<b>Complied with.</b>  KPL has advertised in two local Newspapers informing that the project has been accorded with Environmental and CRZ clearance. The copy of the clearance letter was forwarded to the local Panchayat vide letter dated 26.3.2015.
(ix)	Full support should be extended to the officers of this Ministry's Regional Office at Chennai and the offices of the Central and Tamil Nadu State Pollution control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Full support is being extended to the officers of Ministry of Environment, Forests & Climate Change.
(x)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	<b>Noted for compliance.</b>
5	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986,	KPL is enforcing the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981 and the Environment (Protection) Act, 1986.

	the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	With regard to the Public Liability Insurance, Port has obtained 'Public Liability Insurance' through Oriental Insurance Company Ltd., and put in place.
6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authority.	Presently, no diesel is stored inside the project area. Clearances from Fire Department, Chief Controller of explosives, Civil Aviation Department, Forest conservation Act are not applicable for the above project.
7	The project proponent shall advertise in at least two local Newspaper widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ clearance and copies of clearance letters are available with the Tamil Nadu State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Chennai.	<b>Complied with.</b>  It was advertised in the vernacular Tamil and English newspapers on 25.3.2015 in the New Indian Express and Tamil Paper Dinamani.
8	This clearance is subject to final order of the Hon'ble Supreme court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	<b>Agreed to comply.</b>
9	Status of compliance to the various	<b>Complied with.</b>

	stipulated environmental conditions and environment safeguards will be uploaded by the project proponent in its website.	
10	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	There is no appeal against this EC was made with National Green Tribunal. However, a case was filed before the Hon'ble National Green Tribunal [NGT] (SZ) vide application nos. 8/2016, 152/2016 & 198/2016 regarding dumping of dredged soil/debris in the CRZ area. The proceedings on the case are in progress.
11	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<b>Complied with.</b>  The copy of the clearance letter was forwarded to local body. The copy of the clearance letter was also uploaded in KPL website.
12	The proponent shall upload the status of compliance of the stipulated Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	The compliance reports are sent to Regional office of MoEF&CC, O/o of District Environment Engineer, TNPCB and Member Secretary, TNPCB.
13	The environment statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of	<b>Agreed to comply.</b>

	Clearance conditions and shall be sent to the respective Regional Office of MoEF&CC by e-mail.	
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**Point wise compliance report to the conditions given in the Tamil Nadu Coastal Zone Management Authority letter No. 23187/EC.3/2014-1, dated 16.12.2014 for additional coal berths (CB3 & CB4), which are under construction.**

1	There should not be any sea water intrusion or erosion on the adjacent coastal areas due to the proposed construction of two additional berths, dredging and also due to the dumping of dredged material.	<p><b>Complied with.</b></p> <p>There is no seawater intrusion. The berths are constructed inside the already existing two break waters.</p>
2	Dredged material should be dumped on the landward side and should not be dumped into sea (CRZ IV)., intertidal area (CRZIB) of the Buckingham canal and also in the salt pan areas as the salt pan areas are declared as CRZ-IB (intertidal zone) as per approved coastal Zone management plan of Tamil Nadu.	<p>During the development of terminals and capital dredging process, KPL has dumped a quantity of 73000 cum of dredged materials at the south side of NCTPS road and at the west of Port Access Road. A case was filed before the Hon'ble National Green Tribunal [NGT] (SZ) vide application nos. 8/2016, 152/2016 &amp; 198/2016 regarding dumping of dredged soil/ debris in the CRZ area. After hearing, Hon'ble NGT directed KPL to remove the dumped earth in the above said areas. KPL has removed the dumped material and informed the same to the Hon'ble NGT. However, the petitioner has raised objection before the Hon'ble NGT that KPL has not removed the materials fully.</p> <p>National Green Tribunal (NGT) vide order dated 20.05.2019 had constituted a committee to inspect and ascertain the present status of the unit (north Chennai Thermal Power station) in respect of fly ash disposal, the damage caused to the environment. The committee inspected the dredged material</p>

		<p>dumped area and submitted an assessment report to NGT on 17.01.2020. Based on assessment report of the committee, NGT vide orders dated 20.01.2020 had imposed the environmental compensation to KPL to the tune of Rs.8,34,60,000/- (Rupees Eight Crores Thirty Four Lakhs and Sixty Thousand only). KPL filed a petition for reviewing the above order dated 20.01.2020. Hon'ble NGT vide order dated 06.11.2020 reviewed and imposed an interim compensation of Rs.4,00,00,000/- (Rupees Four Crore only) instead of Rs.8,34,60,000/- and directed to deposit the amount within a period of 2 (Two) months with the Central Pollution Control Board (CPCB).</p> <p>KPL has filed a civil appeal before the Hon'ble Supreme Court of India. Hon'ble Supreme Court has issued stay on the petition vide its order dated 05.01.2021.</p>
3	There should not be any impact of dispersal of dredged material on the adjacent L&T shipyard area especially the navigational channels of that shipyard.	<p>National Institute of Ocean Technology (NIOT) had conducted modelling study to identify the marine disposal area for Ennore Port in 2004.</p> <p>NIOT had re-validated the impact of dredged material for further development in 2010.</p> <p>'Outcome of the 2010 Re-validation Study is as below.</p> <p><i>'The effect of dredge spoil is in line with earlier model with the plume moving in NNE-SSW direction and generally parallel to the coast line. The boundaries of L&amp;T shipyard are sufficiently away from the path of modeled plume drift'.</i></p>

		The modeled sedimentation rate is 0.3m at dumping site and 0.1m after spreading at 11km away from dump site.
4	A continuous proper air quality monitoring station should be under taken around the project area to implement corrective, mitigate measures immediately on the noticing of any adverse impact.	<b>Agreed to comply</b> during operation phase.
5	Necessary adequate preventive measures should be undertaken to maintain the air quality PM10 level at Ennore Port within the standards and it should not cross the prescribed limit and suitable plan on handling of coal in the project area shall be implemented.	<b>Agreed to comply.</b> Adequate pollution control measures will be implemented during the operational stage.
6	Necessary measures should be taken to control the noise level within the prescribed standard levels.	<b>Agreed to comply.</b> Adequate pollution control measures will be implemented during the operational stage.
7	Closed conveyor system with latest technology should be established for coal handling as indicated in the report.	<b>Agreed to comply.</b>
8	Green belt development shall be implemented.	<b>Agreed to comply.</b>
9	There shall be no extraction of ground water	<b>Agreed to comply.</b>  No ground water is extracted inside the port for construction or for operational purpose. Only open dug well are made for horticulture purpose.
10	As indicated in the revised report sufficient allocation of funds should be made to carryout outdoor Environment Social welfare activities.	<b>Noted.</b>

**Annexure-I****Environmental Mitigation Measures in Matrix format**

<b>S. No</b>	<b>Component</b>	<b>Impact</b>	<b>Mitigation Measures</b>
<b>Construction Phase</b>			
1.	Land	<ul style="list-style-type: none"><li>• Change in topography of inner dock basin, which will be dredged and converted into marine berthing area.</li><li>• Land pollution due to discharge of sewage and solid waste onto land.</li></ul>	<ul style="list-style-type: none"><li>• Use of removed soil (top soil only) for green belt development.</li><li>• No change in land use land cover is done as the proposed project site is located within port area, adjacent to the existing coal berths CB 1 and CB2.</li><li>• Disposal of solid waste through authorized recyclers/ contractors.</li><li>• Local labours are engaged.</li></ul>
2.	Water	<ul style="list-style-type: none"><li>• Water pollution due to disposal of sewage and construction waste into water body.</li></ul>	<ul style="list-style-type: none"><li>• No construction waste is disposed off into the water body.</li></ul>
3.	Air	<ul style="list-style-type: none"><li>• Generation of PM2.5, PM10, CO, SO2, NO2</li></ul>	<ul style="list-style-type: none"><li>• Use of water sprinklers.</li><li>• Covering of construction and with sheets while transportation and storage.</li><li>• Low sulphur content diesel for DG sets.</li><li>• Regular servicing of vehicles and DG sets done.</li><li>• Compulsory wearing of Personal Protective Equipment (PPE) like dust mask by workers ensured.</li></ul>
4.	Noise and Vibration	<ul style="list-style-type: none"><li>• Increase in the noise level due to movement of vehicles and construction activities.</li></ul>	<ul style="list-style-type: none"><li>• Regular servicing and maintenance of construction machineries, equipments and vehicles done to control noise.</li></ul>

		<ul style="list-style-type: none"> <li>Vibration due to movement of vehicles and construction activities.</li> </ul>	<ul style="list-style-type: none"> <li>Compulsory wearing of Personal Protective Equipment ensured. PPE like ear plugs or ear muff by workers ensured.</li> <li>The impact due to vibration from vehicular movement is insignificant.</li> <li>Anti-vibration gloves made of visco-elastic material will be compulsorily worn by workers exposed to hand vibration due to continuous hammering etc.</li> </ul>
5.	Marine Environment	<ul style="list-style-type: none"> <li>Increase in suspended solid concentration due to dredging in the marine water body.</li> <li>Change in shoreline.</li> </ul>	<ul style="list-style-type: none"> <li>Usage of silt curtains to contain spread of suspended sediment in marine water body.</li> <li>Construction of coal berths are within the two breakwaters. Aspects relating to sediment cell and coastal erosion are not relevant.</li> <li>No change in shoreline.</li> </ul>
6.	Biological <ul style="list-style-type: none"> <li>Flora</li> <li>Fauna</li> </ul>	<ul style="list-style-type: none"> <li>Site clearance.</li> <li>Disturbance due to increase in noise.</li> </ul>	<ul style="list-style-type: none"> <li>Green belt development.</li> <li>No operations of heavy machinery.</li> </ul>
7.	Socio-Economic	<ul style="list-style-type: none"> <li>Employment generation.</li> </ul>	<ul style="list-style-type: none"> <li>Local people were engaged by the contractors during construction.</li> </ul>
<b>Operation Phase:</b>			
8.	Land	<ul style="list-style-type: none"> <li>Pollution due to discharge of sewage.</li> </ul>	<ul style="list-style-type: none"> <li>Sanitation facilities will be provided.</li> <li>Sewage will be collected in septic tank, and will be emptied regularly by the contractor.</li> </ul>

9.	Water	<ul style="list-style-type: none"> <li>• Consumption of water.</li> <li>• Contamination of water body by discharge of untreated sewage.</li> <li>• Contamination of water body due to discharge of contaminated storm water runoff.</li> </ul>	<ul style="list-style-type: none"> <li>• Water consumption is only for domestic purpose. No process or manufacturing is taking place.</li> <li>• Sewage will be collected in septic tank, which will be emptied regularly by contractor.</li> <li>• Storm water drainage system.</li> </ul>
10.	Air	<ul style="list-style-type: none"> <li>• Coal dust generation.</li> <li>• Emission of air pollutants like CO, SO<sub>2</sub>, NO<sub>x</sub> from vehicles, heavy machineries and DG sets.</li> </ul>	<ul style="list-style-type: none"> <li>• Installation of coal dust suppression mechanism.</li> <li>• Transportation of coal in closed conveyer system.</li> <li>• Dust masks for workers.</li> <li>• Regular servicing and maintenance of DG set and vehicles.</li> <li>• Air quality will be monitored.</li> </ul>
11.	Noise and Vibration	<ul style="list-style-type: none"> <li>• Operation of heavy machineries will result in generation of noise and vibration.</li> </ul>	<ul style="list-style-type: none"> <li>• Ear muffs for workers working near noisy environment.</li> </ul>
12.	Marine Environment	<ul style="list-style-type: none"> <li>• Contamination of marine water and bottom sediment due to discharge/disposal of untreated sewage/garbage from the ships/port area into the marine environment.</li> <li>• Any spillage/ runoff from the coal unloading/handling area, windblown dust might also contaminate the marine water quality and sediment quality.</li> </ul>	<ul style="list-style-type: none"> <li>• Coal will be transferred through elevated closed conveyer belt to the stack yard.</li> <li>• Water sprinkler will be installed at the unloading points.</li> <li>• No garbage will be disposed into the sea. The same will be collected by the port and disposed off.</li> </ul>
13.	Biological <ul style="list-style-type: none"> <li>• Flora</li> <li>• Fauna</li> </ul>	<ul style="list-style-type: none"> <li>• Dust emission due to storage and handling of coal.</li> </ul>	<ul style="list-style-type: none"> <li>• Coal dust suppression.</li> <li>• Green belt development.</li> </ul>
14.	Socio-	<ul style="list-style-type: none"> <li>• Employment opportunity.</li> </ul>	<ul style="list-style-type: none"> <li>• Employment opportunity.</li> </ul>

	Economic	<ul style="list-style-type: none"> <li>• Increase in thermal power generation.</li> </ul>	<ul style="list-style-type: none"> <li>• The coal is supplied to thermal power station for the generation of power.</li> </ul>
15.	Occupational Health and Safety	<ul style="list-style-type: none"> <li>• Generation of dust during handling and storage of coal leading to respiratory ailments.</li> <li>• Fire hazard due to coal handling and storage.</li> </ul>	<ul style="list-style-type: none"> <li>• Usage of personal protective equipment like dust mask and safety goggles.</li> <li>• Safety training.</li> <li>• Display of visible signages at places of fire hazard.</li> <li>• Cordoning of coal handling area, transportation area and Storage area as No Smoking Zone.</li> </ul>

**KAMARAJAR PORT LIMITED**



**Compliance Report**

**On**

**Ministry's guidelines for**

**“DEVELOPMENT OF THE FACILITIES ENVISAGED IN  
THE PORT MASTER PLAN (PHASE III) BY  
M/S KAMARAJAR PORT LIMITED”**

**Point wise compliance report on Ministry's guidelines for Development of the facilities envisaged in the Port Master Plan(Phase III) by M/s Kamarajar Port Limited- Environmental clearance.**

**Ref: MoEF's Ltr No. F.No.11-51/2012-1A-111, dated 30.10.2018**

**Present expansion proposals- Phase III**

Due to cargo demand and to effectively use the facilities already created, port proposed to develop the following projects (as shown in Table below) as envisaged in the Kamarajar Port master plan. The projects will be developed in a phased manner in line with the market requirements, well within the existing break waters and in the lands owned by Kamarajar Port.

**Phase III projects**

<b>S.No</b>	<b>Description</b>	<b>Qty</b>	<b>Capacity</b>
1	Automobile export/import terminal-	2Nos.	6 MTPA
2	Container terminal-1000m quay length (3berths)	3Nos.	24 MTPA
3	Marine Liquid Terminal	1No.	5 MTPA
4	IOC captive jetty	1No.	5 MTPA
5	Bulk terminal (coal/ore/other type)	2Nos.	18 MTPA
6	Multi cargo berth	1No.	2 MTPA
7	Associated capital dredging for the above projects	33.0 Million M <sup>3</sup>	
<b>Total No. of berths</b>		<b>10 Nos.</b>	<b>60 MTPA</b>

**Present status:**

Port has obtained Consent To Establish for the following terminals:-

1. Automobile Export/Import Terminal-3MMTPA capacity-1Nos. (Consent Nos.2101138790505 & 2101238790505, dated 02.08.2021) under Air & Water Acts.
2. IOC captive jetty-5MMTPA-1Nos. (Consent Nos.2101131814699 & 2101231814699, dated 10.04.2021) under Air & Water Acts.

The consent To Establish for the above said terminal mentioned at Sl.No.1 is inclusive of the associated dredging of 33 million cubic meters for all the Master Plan Projects.

The construction of the Automobile Export/Import Terminal is completed and commercial operations are commenced on 03.01.2024. The development of IOC captive jetty project is in progress and expected to be put in operation from November 2024. Remaining projects as stipulated in the Environmental Clearance letter will be taken in a phased manner.

**Compliance report to the Conditions stipulated vide Ltr No. F.No.11-51/2012-1A-111, dated 30.10.2018**

S.No	MoEF Guidelines	Compliance Status
A.	Specific Conditions	
(i)	The project is recommended for grant of Environmental and CRZ Clearance subject to final outcome of cases [Shri R. Ravimaran, Chennai (NGT Case No.8 of 2016) and Meena Thanthai K. R. Selvaraj Kumar, Chennai (NGT Case No.152 of 2016)] which are sub-judice in the Hon'ble National Green Tribunal (NGT) South Zone, Chennai, Tamil Nadu.	<p><b>Noted.</b></p> <p>During the development of Coal Berths CB3 &amp; 4, and capital dredging process, KPL has dumped a quantity of 73,000 cum of dredged materials at the south side of NCTPS road and at the west of Port Access Road. A case was filed before the Hon'ble National Green Tribunal [NGT] (SZ) vide application nos. 8/2016, 152/2016 &amp; 198/2016 regarding dumping of dredged soil/debris in the CRZ area.</p> <p>After hearing, Hon'ble NGT directed KPL to remove the dumped earth in the above said areas. KPL has removed the dumped material and informed the same to the Hon'ble NGT. However, the petitioner has raised objection before the Hon'ble NGT that KPL has not removed the materials fully.</p> <p>National Green Tribunal (NGT) vide order dated 20.05.2019 had constituted a committee to inspect and ascertain the present status of the unit (north Chennai Thermal Power station) in respect of fly ash disposal, the damage caused to the environment. The committee inspected the dredged material dumped area and submitted an assessment report to NGT on 17.01.2020. Based on assessment report of the committee, NGT vide orders dated 20.01.2020 had imposed the environmental compensation to KPL to the tune of Rs.8,34,60,000/- (Rupees Eight Crores Thirty Four Lakhs and Sixty Thousand only). KPL filed a petition for reviewing the above order dated 20.01.2020. Hon'ble NGT vide</p>

		<p>order dated 06.11.2020 reviewed and imposed an interim compensation of Rs.4,00,00,000/- (Rupees Four Crore only) instead of Rs.8,34,60,000/- and directed to deposit the amount within a period of 2 (Two) months with the Central Pollution Control Board (CPCB).</p> <p>KPL has filed a civil appeal before the Hon'ble Supreme Court of India. Hon'ble Supreme Court has issued stay on the petition vide its order dated 05.01.2021.</p>
(ii)	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	<b>Agreed to comply.</b>
(iii)	All the recommendations and conditions specified by the Tamil Nadu Coastal Zone Management Authority who has recommended the project vide letter No. 12311/EC.3/2017-1 dated 20.07.2017 shall be complied with.	Please find enclosed the compliance report as <b>Annexure-1</b>
(iv)	The project proponent shall ensure that the project is in consonance with the new CZMP prepared by the State Government under the provisions of CRZ Notification, 2011.	<b>Agreed to comply.</b>
(v)	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	<p><b>Complied with.</b></p> <p>Consent To Establish/Consent Operate for the following terminals were obtained from TNPCCB.</p> <p>1. Consent To Operate-Automobile Export/Import Terminal-3MMTPA capacity-1Nos. (Consent No.2304254957162, dated 10.12.2023)</p>

		2. Consent To Establish-IOC captive Jetty-5MMTPA-1Nos. (Consent No.2101231814699, dated 10.04.2021)
(vi)	As per the latest map no development zone shall be maintained 100m on either side of the Kosasthalaiyar River. Besides 50m buffer zone shall be maintained from the mangrove boundary as marked in the combined map indicating the actual field position taking into consideration both the maps i.e. CRZ Map of Anna University prepared for KPL in 2016 and draft CZMP of TNCZMA 2018.	<b>Agreed to comply.</b>
(vii)	Though the area including the portion of Kosasthalaiyar river has been transferred to KPL, no activity shall be carried out in this zone by maintaining a buffer of 100m since water bodies and wet lands are more important than the development activity.	<b>Agreed to comply.</b>
(viii)	The area in the southern side meant for Commercial building, office and parking terminal shall be relocated to some other area on the northern side (within the existing port limit where sufficient land is available).	<b>Complied with.</b> The office building is located inside the existing port premises.
(ix)	The referred Culverts i.e. C1 to C6 as marked in the combined map indicating the actual field position taking into consideration both the maps i.e. CRZ Map of Anna University prepared for KPL in 2016 and draft CZMP of TNCZMA2018 shall be widened to facilitate the free flow of water.	<b>Complied with.</b> The referred Culverts i.e. C1 to C6 are widened and the compliance status of the same was certified by the Regional Office of MoEFCC.
(x)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	<b>Complied with.</b> No creeks are blocked due to project activity.
(xi)	Dredging shall not be carried out during the fish breeding season.	<b>Being complied with.</b> No dredging is being carried out during the fish

		breeding season.
(xii)	Dredging, etc., shall be carried out in the confined manner to reduce the impacts on marine environment including turbidity.	<b>Agreed to comply.</b> Dredging will be carried out in the confined manner to reduce the impacts on marine environment.
(xiii)	Dredged material shall be disposed safely in the designated areas.	<b>Agreed to comply.</b>  The dredge material will be disposed in the port identified dumping ground of an area of 6000m x 6000m in the open sea identified through mathematical modeling studies.
(xiv)	Shoreline should not be disturbed due to dumping. Periodical study on shoreline changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.	<b>Complied with.</b> Port conducts regular shoreline survey to find out the changes in the shoreline
(xv)	While carrying out dredging, an independent monitoring shall be carried out by Government Agency/Institute to check the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	<b>Being Complied with.</b>  Dredging is being carried out in phased manner. Monitoring of Environmental parameters is carried out through a NABL accredited laboratory during the dredging operations and the analysis reports are submitted to TNPCB.
(xvi)	The fresh water requirement (1000 KLD) for the present project will be met from Chennai Metro water supply. However if additional quantity is required the same will be met through outsourced external agency. However Rain water harvesting shall be followed as per local byelaw and harvested water shall be stored, treated and reused to reduce the additional water requirement since Chennai is a water deficient area, besides use of water efficient appliances.	<b>Agreed to comply.</b>  As of now Port has developed two terminals out of ten projects for which EC is obtained. With regard to construction activities of IOCL Captive Jetty, water is being procured from outsourced external agency by the construction contractor.  With regard to Automobile Export/Import Terminal-II, during construction activities, water is outsourced from external agency by the construction contractor. Further, during operation phase, the water requirement will be met from the CMWSSB approved

		<p>quantity.</p> <p>Rain Water Harvesting system is being provided at 5acres plot for the proposed facilities being constructed therein.</p>
(xvii)	The concerns expressed during the public hearing held by the Kamarajar Port Limited needs to be addressed during the project implementation. These would also cover socio-economic and ecological and environmental concerns, besides commitment by the management towards employment opportunities.	<b>Agreed to comply.</b>
(xviii)	Marine ecological studies as carried out by the accredited consultant (Indomer Coastal Hydraulics Pvt Ltd), Chennai and its mitigation measures for protection of phytoplankton, zooplanktons, Macrobenthos etc., as given in the EIA-EMP Report shall be complied with in letter and spirit.	<p><b>Complied with.</b></p> <p>Port is having approved Bio Diversity Management Plan and Environmental Management Plan. The recommendations are being complied with to protect marine ecology.</p>
(xix)	A copy of the Marine and riparian biodiversity management plan duly validated by the State Biodiversity Board shall be submitted before commencement of implementation.	A copy of the duly validated Bio-Diversity Management Plan was submitted to RO, MoEF&CC, vide letter dated.02.06.2022.
(xx).	A continuous monitoring programme covering all the seasons on various aspects of the coastal environs need to be undertaken by a competent organization available in the State or by entrusting to the National Institutes/renowned Universities/accredited Consultant with rich experiences in marine science aspects. The monitoring should cover various physicochemical parameters coupled with biological indices such as microbes, plankton, benthos and fishes on a periodic basis during construction and operation phase of the project. Any deviations in the parameters shall be given adequate care with suitable	<p>Continuous monitoring of various environmental parameters is being carried out by engaging a NABL accredited &amp; MoEF recognized laboratory, M/s.Nitya Laboratories. The monthly monitoring reports are submitted to TNPCB regularly.</p> <p>The same will be continued for the present project also during operation phase.</p>

	measures to conserve the marine environment and its resources.	
(xxi)	Continuous online monitoring of for air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance report to the regional office of MOEF&CC.	<p><b>Agreed to Comply</b> once the projects are implemented.</p> <p>With regard to IOCL Captive Jetty, monthly water quality, AAQ and stack monitoring test reports pertaining to IOCL projects are attached herewith.</p> <p>With regard to Automobile Export/Import Terminal-II, continuous monitoring of various environmental parameters is being carried out by engaging a NABL accredited &amp; MoEF recognized laboratory, M/s.Nitya Laboratories. The monthly monitoring reports are submitted to TNPCB regularly.</p>
(xxii)	Effective and efficient pollution control measures like covered conveyors/ stacks (coal, iron ore and other bulk cargo) with fogging/back filters and water sprinkling commencing from ship unloading to stacking to evacuation shall be undertaken. Coal and iron ore stack yards shall be bounded by thick two tier green belt with proper drains and wind barriers wherever necessary.	<b>Agreed to Comply.</b>
(xxiii)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as part of the management plan. Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.	<p><b>Agreed to Comply.</b></p> <p>KPL has prepared Bio-Diversity Management Plan and submitted to Tamilnadu Biodiversity Board (TNBB) for validation and approval. TNBB has accorded approval vide their letter dated 31.12.2021. The Bio-Diversity Management Plan will be implemented as per the timelines indicated.</p>
(xxiv)	The project proponents would also draw up and implement a management plan for the prevention of fires due to handling	<p><b>Agreed to Comply.</b></p> <p>With regard to IOCL captive Jetty, only</p>

	of coal.	POL/LPG products are handled in the facility. Fire prevention for the IOCL Jetty is covered under QRA studies carried out. The jetty has been provided with facilities as per the requirements of OISD 156, 2017 revision.
(xxv)	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	<b>Agreed to Comply.</b> Necessary precautions will be taken to trap and combat spillage once the terminal is put into operation.
(xxvi)	Necessary arrangements for the treatment of the effluents and solid wastes/facilitation of reception facilities under MARPOL must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986. The provisions of Solid Waste Management Rules, 2016. E- Waste Management Rules, 2016, and Plastic Waste Management Rules, 2016 shall be followed.	Being carried out and the same will be extended to the other projects also during construction and operation.
(xxvii)	Compliance to Energy Conservation Building Code (ECBC-2017) shall be ensured for all the building complexes. Solar/wind or other renewable energy shall be installed to meet energy demand of 1% equivalent.	<p><b>Complied with.</b></p> <p>With regard to IOCL Captive Jetty, the project comprises of Solar plant of capacity 100KW peak which is more than 1% of energy demand (700KVA) of IOCL.</p> <p>Kamarajar Port and its terminal operators have installed 1.32MWh solar power plant in its premises. Port draws 80% of its captive usage through renewable sources.</p>

		In line with ECBC-2017, all the appliances installed at KPL are replaced with higher rated capacity appliances.
(xxviii)	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	<b>Agreed to Comply.</b>
(xxix)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	<b>Agreed to Comply.</b>
(xxx).	Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.	<b>Agreed to Comply.</b>
(xxxix)	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.	<b>Agreed to Comply.</b>
(xxxix)	KPL will strengthen their Environmental Management Cell.	<p>Port is having Environmental Cell under HSE-Division of Marine Services Department, headed by General Manager (MS). The compliance of Environmental Management Plan of the Port is monitoring by Environmental Cell of HSE division. However, port is in the process of strengthening its Environmental Management Cell.</p> <p>Port is monitoring the environment. Port has engaged M/s. Nitya Laboratories (MoEF&amp; CC recognized and NABL accredited laboratory) for sampling and testing of various environmental parameters.</p>
(xxxix)	KPL Shall consider more employment opportunities to the local people.	Agreed to Comply as and when projects developed in a phased manner.
(xxxix)	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1stMay 2018, and proposed by the project proponent, an amount of Rs. 15 Crore (@0.25% of project Cost) shall be earmarked under Corporate Environment	<b>Agreed to Comply</b> in a phased manner as when the projects are implemented.

	<p>Responsibility (CER) for the activities such as strengthening of environmental cell by new recruitments, development of green fields, environmental monitoring surveys, solid waste management, sanitation and sewage facilities, widening of culverts etc.</p> <p>The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.</p>	
(xxxv)	<p>The project is recommended for grant of Environmental and CRZ Clearance subject to final outcome/legal opinion on the order dated 22nd November, 2017 of Hon'ble NGT in the Original Application No. 424 of 2016 (Earlier O.A.No. 169 of 2015) and Original Application No. 11 of 2014 in the matter of M/s. Mehdad &amp; Anr. Vs. Ministry of Environment, Forests &amp; Climate Change &amp; Ors. and Shamsunder Shridhar Dalvi &amp; Ors. Vs. Govt. of India &amp; Ors.</p>	<b>Agreed to Comply.</b>

**B. General Conditions:**

(i)	<p>Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.</p>	<p>Appropriate measures are being undertaken to avoid degradation of the water quality.</p>
(ii)	<p>Full support shall be extended to the officers of this Ministry/ Regional Office at Chennai by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation</p>	<b>Agreed to Comply.</b>

	measures and other environmental protection activities.	
(iii)	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Chennai regarding the implementation of the stipulated conditions.	<b>Complied with.</b>
(iv)	Ministry of Environment, Forest and Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	<b>Agreed to Comply.</b>
(v)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	<b>Agreed to Comply.</b>
(vi)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest and Climate Change.	<b>Agreed to Comply.</b>
(vii)	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	<b>Agreed to Comply.</b> The financial closure of the terminals will be informed to RO, MoEFCC accordingly.
(viii)	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.	<b>Complied with.</b>  It was Advertised in two local Newspapers informing that the project has been accorded Environmental and CRZ clearance. Further, the Commissioner, Minjur panchayat union, Ponneri taluk, vide KPL's letter dated 22.11.2018.
(ix)	A copy of this clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District	<b>Complied with.</b>  Copy of the clearance letter was forwarded to Block Development Officer, Thiruvallur District for necessary action

	Industries centre and Collector's Office/ Tehsildar's office for 30 days.	at their end.
6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	<p>Presently, no diesel is stored inside the project area. Clearances from Fire Department, Chief Controller of explosives, Civil Aviation Department, Forest conservation Act are not applicable for the above said project.</p> <p>However, one of the project operator M/s.IOCL has obtained the PESO License for the terminal vide approval No. G-22(47)183, dated 17.08.2021.</p>
7	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Chennai.	<p><b>Complied with.</b></p> <p>It was advertised in the vernacular Tamil and English newspapers on 14.11.2018 in the Indian Express and Tamil paper Dinamani.</p>
8	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	<b>Agreed to Comply.</b>
9	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<p><b>Agreed to Comply.</b></p> <p>No appeal is pending against this Environmental Clearance.</p>
10	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be	<b>Being complied with.</b>

	uploaded by the project proponent in its website.	
11	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<b>Complied with.</b>  The copy of the clearance letter was forwarded to the Commissioner, Minjur panchayat union, Ponneri Taluk vide KPL letter dated 22.11.2018.
12	The proponent shall upload the status of compliance of the stipulated Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.	<b>Being complied with.</b>  The compliance reports shall be sent to Regional office of MoEF & CC, O/o District Environment Engineer, TNPCB and Member Secretary, TNPCB.
13	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.	<b>Being complied with.</b>
14	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional Office of MoEF&CC by e-mail.	<b>Agreed to Comply</b> once the projects put into operation.
15	The above stipulations would be enforced among others under the provisions of	Port has obtained Public Liability Insurance through The Oriental

	Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Insurance Company Ltd.', and put in place all the time.
16	These issues with the approval of the Competent Authority.	<b>Noted.</b>

Directions of TNSCZMA		Annexure-I
1	<p>The proposed activities involve capital dredging in port basin and Navigational channel resulting in a quantity of 33 MCM of dredged material and the dredging is proposed to be carried out for a period of 5 years. A dredge disposal site at a depth of 25-50m depth has been identified for disposal of dredged material amounting to 30 MCM and the disposal will be made in a phased manner for a period of 5 years. The disposal site measures about 30 sq km and the dumped dredged material is expected to rise the sea bed level from 0.5 to 1 m after completion of the dumping. The Authority felt that blanketing of 30 sq km seabed area with a cover of dredge soil upto 1m may affect drastically the benthic fauna of the area. Using the models, the dump area size should be designed in such a way that it extends from 20km or more from the 50m depth in the offshore area with a narrow band of dumping area say 100-200m width and low discharge rate, leading to marginal increase of sea bed level. Such an arrangement may minimize the damaging effect on fauna. Fine scale bathymetry data should be collected before initiation of dumping in the proposed site and repeated annually till completion of the dumping. A report in this regard has to be submitted to the Authority as a part of Compliance report that will be submitted to the MoEF &amp; CC, GoI after obtaining Environmental Clearance.</p>	<p>The area for offshore disposal was extended to 6000m x 6000m spread over the depth of 25 to 55m CD as per the revised study and recommendation of State Coastal Zone management Authority.</p>
2	<p>It should be ensured that the proposed construction of Truss does not affect free flow of water.</p>	<p><b>Agreed to comply</b> during the development of projects.</p>

3	No interference of any kind to be done in Mangroves and Salt marsh areas, including construction of coal conveyor belt.	<b>Agreed to comply.</b>
4	Area under wetlands as elaborated by the EIA report need to be considered and managed as wetlands, and not reclaimed or built up in future.	<b>Agreed to comply.</b>
5	In addition to the mangroves, the existing patch of sand dune/beach vegetation within the Kamarajar Port Limited (KPL) premises needs to be scientifically studied, covering aspects such as checklist of flora and fauna, diversity, representativeness, population trends, regeneration and recruitment trends, percentage coverage of invasive alien species and presence of breeding populations. The proposed afforestation/greenbelt programme needs to be based on the above assessment, with habitat specific greening plans being developed and implemented.	KPL is having approved Bio Diversity Management Plan vetted by Tamilnadu Biodiversity Board (TNBB) and the same is being implemented as per the timelines indicated.
6	The afforestation/greenbelt programme needs to be representative of the typical vegetation of the Ennore estuary, covering all the major habitat types including salt marshes. It is further recommended that a set of biological indicators be identified based on the scientific assessment and be used for monitoring the efficiency of the afforestation/greening programme.	KPL is having approved Bio Diversity Management Plan vetted by Tamilnadu Biodiversity Board (TNBB) and the same is being implemented as per the timelines indicated.

7	It is also recommended that impact assessment studies be commissioned that cover a select number of species as also the different phases of project execution. The Kamarajar Port Limited shall develop and implement ecological restoration programme with the support of the Tamil Nadu Forest Department, especially addressing wetlands and wetland bio-diversity.	KPL is having approved Bio Diversity Management Plan vetted by Tamilnadu Biodiversity Board (TNBB) and the same is being implemented as per the timelines indicated.
8	In view of the location of the project within the landscape that encompasses a perennial river and its estuarine complex, it is recommended that a dedicated programme be developed and implemented on the hydrological services of the landscape, notably flood mitigation.	<b>Agreed to comply.</b>
9	The concerns expressed during the public hearing that was held by the kamarajar Port need to be addressed during the project implementation. These would cover socio-economic as also ecological and environmental concerns.	<b>Agreed to comply.</b>
10	Oil Spill Contingency Plan should be prepared and a team of trained men formed to be available 24 X 7 to tackle any disasters.	KPL is having an approved Oil Spil Contignecy plan in line with NOS-DCP guidelines. Port deployed a team of trained & dedicated oil spill response team available 24 x 7 basis to tackle accidental spills if any.
11	A detailed plan for the source segregation and disposal of solid waste (Bio-degradable/non-degradable etc.,) generated shall be formulated. Further solid wastes such as plastics may be collected and disposed as per rules. ETP should be provided and treatment done meticulously.	Kamarajar Port has engaged a contractor for collection, segregation and disposal of solid wastes. Solid waste including plastic generated from the port and ships are being collected, segregated and sent to various approved recyclers for further beneficial use. ETP/STP is provided as per the requirements in accordance with TNPCB norms.

**KAMARAJAR PORT LIMITED**



**Compliance Report**

**On**

**Ministry's guidelines for**

**“ESTABLISHMENT OF 1MLD RO DESALINATION PLANT AT  
KAMARAJAR PORT, VALLUR POST, CHENNAI-120”**

**BY**

**M/s. KAMARAJAR PORT LIMITED**

**Point wise compliance report on Ministry's guidelines for Establishment of 1MLD RO Desalination Plant at Kamarajar Port by M/s Kamarajar Port Limited - CRZ clearance.**

**Ref: MoEF's Ltr No. F.No.11-51/2012-1A-111, dated 22.04.2022**

**Brief Description of the Project:**

Port is obtaining water of 250 KLD against the sanctioned 1 MLD from CMWSB for potable purpose. During summer season, acute shortage of potable water is envisaged. To overcome the water crisis, it was decided to install a Sea Water RO desalination plant of 1 MLD capacity within the port based on the meeting held on 03-03-2018 under the chairmanship of Hon'ble Ministry of Shipping, Road Transport & Highways, Water Resources and Ganga Rejuvenation.

The proposed desalination process will make use of Reverse Osmosis (RO) technology to remove salt from sea water, thereby producing fresh product water. The Sea Water based RO desalination plant is proposed with intake well for withdrawing sea water, intake and outfall conveyance lines, RO plant building to house 2 X 0.5 MLD production units and Outfall disposal unit. The sea water intake structure is proposed at water depth of 4m and the intake pipeline of around 350m connects the sea water intake to the plant. The plant is designed with recovery efficiency of 40% and the total water requirement of the desalination plant is about 117 m<sup>3</sup> /hr, out of which 46 m<sup>3</sup> /hr of fresh water will be produced and 71 m<sup>3</sup> /hr of brine will be disposed into the sea through buried pipe line of diameter 150mm HDPE pipe.

Brine of high salinity will be discharged into the sea and hence Brine dispersion model using Cornell Mixing Zone Expert System (CORMIX) was carried out to ensure proper dispersion. The study indicated that the salinity concentration reduced from 60 ppt to 35.6ppt with 100% dilution within 16m in 5.12 seconds. Hence, the water quality in the environment is not disturbed.

The geographical location of the desalination plant is (13°15'27.67" N, 80°20'8.09" E), intake structure (13°15'28.32"N, 80°20'18.08"E), outfall (13°15'27.34"N, 80°20'39.03"E).

Ministry of Environment, Forests & Climate Change has accorded clearance under CRZ Notification vide letter No. F.No.11-10/2022-IA.III dated 22.04.2022.

**Compliance report to the Conditions stipulated vide Ltr No. F.No.11-10/2022-IA.III dated 22.04.2022.**

<b>S.No</b>	<b>MoEF Guidelines</b>	<b>Compliance Status</b>
<b>A.</b>	<b>Specific Conditions</b>	
(i)	All construction shall be strictly in accordance with the provisions of CRZ Notification, 2011 and as amended from time to time.	<b>Agreed to comply.</b>
(ii)	No storage reservoir for sea water shall be permitted and only a pipelines conveyance system shall be installed	<b>Agreed to comply.</b>
(iii)	No groundwater shall be extracted within the CRZ area to meet water requirements during the construction and/or operational phase of the project.	<b>Agreed to comply.</b>
(iv)	No excavated material during the construction shall be dumped in water bodies or adjacent areas.  The site shall be restored to its near original condition after completion of construction	<b>Agreed to comply.</b>
(v)	Any physical infrastructure set up during construction period shall be removed simultaneously with the completion of laying of each segment of the project.	<b>Agreed to comply.</b>
(vi)	All the conditions stipulated by the Tamil Nadu Coastal Zone Management Authority vide its Letter No. 22895/EC.3/2021-1 dated 08/02/2022, and commitments made by the PP before the CZMA and EAC shall be followed in letter and spirit.	<b>Agreed to comply.</b>
(vii)	All necessary clearance from the concerned authority, as may be	<b>Agreed to comply.</b>

	applicable should be obtained prior to commencement of the project or activity.	
<b>General Conditions</b>		
(i)	Management of solid waste by the Solid Waste Management Rules, 2016 shall be strictly implemented.	<b>Complied with.</b> Kamarajar Port is having effective Solid Waste Management mechanism and same shall be extended to this project also.
(ii)	'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of the Air (Prevention and Control of Pollution) Act, 1981 and/or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.	Consent To Establish for the project accorded to the project vide consent order Nos. 2201148160108 & 2201248160108, dated 03.11.2022. The installation process is yet to commence.  Consent To Operate will be obtained after completion of installation of all the units of Desalination Plant in all aspects.
(iii)	Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and be disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of Competent Authority.	<b>Noted for compliance.</b>
(iv)	All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by the Central/ State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea/coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project	<b>Noted for compliance.</b>

	proponent. The treated waste water shall be reused for landscaping, flushing and/or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangements for situations arising due to malfunctioning STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.	
(v)	Any hazardous waste generated during the construction phase, shall be disposed off as per applicable rules and norms with the necessary approvals of the State Pollution Control Board.	<b>Agreed to comply.</b>
(vi)	A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	<b>Agreed to comply.</b>
(vii)	A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned Regional Office of this Ministry regarding the implementation of the stipulated conditions.	<b>Being complied with.</b>
(viii)	The Ministry of Environment, Forest & Climate Change or any other Competent Authority may stipulate any additional conditions or modify	<b>Agreed to comply.</b>

	the existing ones, if necessary in the interest of the environment and the same shall be complied with.	
(ix)	Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of the implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.	<b>Agreed to comply.</b>
(x)	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	<b>Agreed to comply.</b>
(xi)	The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner, including revoking the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non-compliance.	<b>Agreed to comply.</b>
(xii).	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from	<b>Agreed to comply.</b>

	the respective Competent Authorities.	
(xiii)	<p>The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a>. The advertisement should be made within seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.</p>	<p><b>Complied with.</b></p> <p>The clearance to the project was advertised in two local news papers dated 05.05.2022.</p>
(xiv)	<p>A copy of the clearance letter shall be sent by the proponent to the concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.</p>	<p><b>Complied with.</b></p> <p>The copy of the CRZ clearance letter was forwarded to the Commissioner, Greater Chennai Corporation vide KPL's letter dated 30.04.2022.</p> <p>No representations were received against the project clearance.</p>
(xv)	<p>The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&amp;CC, the respective Zonal Office of CPCB and the SPCB.</p>	<p><b>Being complied with.</b> Kamarajar Port uploads the status of compliance of the stipulated conditions, including results of monitored data on its website.</p>

(xvi)	The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the project proponent along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.	<b>Complied with.</b>
6	This Clearance is subject to the final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	<b>Agreed to comply.</b>
7	The Ministry reserves the right to stipulate additional conditions if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time-bound manner. The Ministry may revoke or suspend the CRZ clearance if the implementation of any of the above conditions is not found satisfactory.	<b>Agreed to comply.</b>
8	Concealing factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	<b>Agreed to comply.</b>

9	Any appeal against this CRZ clearance lies with National Green Tribunal, if preferred within a period of 30days as prescribed under Section 16 of the National Green Tribunal Act, 2010	<b>Agreed to comply.</b>
10	The above conditions shall be enforced, inter-alga under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	<b>Agreed to comply.</b>

**Conditions stipulated by the Tamil Nadu Coastal Zone Management Authority vide its Letter No. 22895/EC.3/2021-1 dated 08/02/2022.**

<b>S.No</b>	<b>Special Conditions</b>	<b>Compliance Status</b>
(i)	All the provisions of the CRZ Notification, 2011 shall be adhere with.	<b>Agreed to comply.</b>
(ii)	The project proponent shall undertake the establishment only after getting the required Clearances from Competent authorities such as Planning Permission, Plan Approval etc., including the clearance under CRZ Notification, 2011 and other statutory clearances.	Consent To Establish for the project accorded to the project vide consent order Nos. 2201148160108 & 2201248160108, dated 03.11.2022. The installation process is yet to commence.  Consent To Operate will be obtained after completion of installation of all the units of Desalination Plant in all

		aspects.
(iii)	The clearances/approvals from the Revenue Department and Tamil Nadu Maritime Board for laying of pipeline in the areas under their control shall be obtained before the commencement of the establishment.	Consent To Establish for the project accorded to the project vide consent order Nos. 2201148160108 & 2201248160108, dated 03.11.2022. The installation process is yet to commence.
(iv)	The project proponent shall not draw any groundwater in CRZ area, under any circumstances.	<b>Agreed to comply.</b>
(v)	No excavated material during the construction shall be dumped in water bodies or adjacent areas.	<b>Agreed to comply.</b>
(vi)	The project proponent shall adhere to the Construction and Demolition Waste Management Rules, 2018.	<b>Agreed to comply.</b>
(vii)	The project proponent shall ensure that the temporary structures installed for laying of pipe lines are removed within one months of accomplishment of the work.	<b>Agreed to comply.</b>
(viii)	No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.	<b>Agreed to comply.</b>
(ix)	The project proponent shall ensure that an inbuilt mechanism appropriate for the management of solid waste is in place which shall be pre-requisite for obtaining CTO under Air and Water Acts from the TNPCB.	<b>Agreed to comply.</b>
(x)	The proponent shall furnish the HTL map from Institute of Remote Sensing (IRS), Anna University or from any authorized Institute, authenticated by the Govt. of India for this purpose in the village level 1:4000 Scale, duly marking	The HTL map was submitted to TNSCZMA and MoEF & CC during proposal called for review.  The respective authorities have examined the details and

	the proposed project features in the approved CZMP map of Tamil Nadu.	recommended the proposal for CRZ clearance.
(xi)	The Project Proponent has submitted the compliance report with reference to the above conditions and submitted the HTL Demarcation map obtained from the NIOT who is one of the authorized agency for preparation of HTL Demarcation map. With reference to the NoC from the State Pollution Control Board, the Project Proponent has stated that the TNPCB has informed that NoC will be issued in the form of Consent To Establish (CTE) after obtaining CRZ Clearance from the MoEF&S CC, GoI.	<b>Agreed to comply.</b>
<b>B</b>	<b>General Conditions</b>	<b>Compliance Status</b>
(a)	The Project Proponent should ensure that the salinity of the output water does not affect the environment and the organisms.	<b>Agreed to comply.</b>
(b)	The Project Proponent should check the quality of the intake water especially for oil and heavy metals contamination.	<b>Agreed to comply.</b>
(c)	The Project Proponent should ensure that the dredging activity should not hinder with the outlet pipe of the desalination plant.	<b>Agreed to comply.</b>
(d)	The project proponent shall undertake the establishment only after getting all the required Clearances such as Planning Permission, CTE from TNPCB, Clearance under CRZ Notification, 2011 etc., from Competent authorities.	Consent To Establish for the project accorded to the project vide consent order Nos. 2201148160108 & 2201248160108, dated 03.11.2022. The installation process is yet to commence.
(e)	The project proponent shall not draw any groundwater in CRZ area, under any circumstances.	<b>Agreed to comply.</b>

(f)	The temperature of water at the outfall point should be maintained within the prescribed levels. This may be monitored regularly through an institute and fact may be reported to Department of Environment.	<b>Agreed to comply.</b>
(g)	The Project should not affect the fishing activities in any way and also should not hinder the livelihood of the Fishermen.	<b>Agreed to comply.</b>
(h)	All the provisions of the CRZ Notification, 2011 shall be adhered with.	<b>Agreed to comply.</b>
(i)	The project proponent shall undertake the establishment only after getting the required Clearances from Competent authorities such as Planning Permission, Plan Approval etc., including the clearance under CRZ Notification, 2011 and other statutory clearances.	MoEF&CC has accorded the CRZ clearance for the project, vide F.No.11-51/2012-1A-111, dated 22.04.2022.  TNPCB has accorded the Consent To Establish for the project, vide consent order Nos. 2201148160108 & 2201248160108, dated 03.11.2022. The installation process is yet to commence.
(j)	The clearances/approvals from the Revenue Department and Tamil Nadu Maritime Board for laying of pipeline in the areas under their control shall be obtained before the commencement of the establishment.	MoEF&CC has accorded the CRZ clearance for the project, vide F.No.11-51/2012-1A-111, dated 22.04.2022.  TNPCB has accorded the Consent To Establish for the project, vide consent order Nos. 2201148160108 & 2201248160108, dated 03.11.2022. The installation process is yet to commence.
(k)	No excavated material during the construction shall be dumped in water bodies or adjacent areas.	<b>Agreed to comply.</b>

(l)	The project proponent shall adhere to the Construction and Demolition Waste Management Rules, 2018	<b>Agreed to comply.</b>
(k)	The project proponent shall ensure that the temporary structures installed for laying of pipe lines are removed within one month of accomplishment of the work.	<b>Agreed to comply.</b>
(m)	No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.	<b>Agreed to comply.</b>
(n)	The project proponent shall ensure that an inbuilt mechanism appropriate for the management of solid waste is in place which shall be pre-requisite for obtaining CTO under Air and Water Acts from the TNPCB.	<b>Agreed to comply.</b>
(o)	The Project Proponent should remit 2% on the total project cost to Environment Management Agency of Tamil Nadu (EMAT) account, towards carrying out need based CER activities.	<b>Complied with.</b>  An amount of 36lakhs ( <i>being 2% of the project cost of Rs.18Crores</i> ) was remitted to Environment Management Agency of Tamil Nadu (EMAT) account, towards carrying out CER activities.

**KAMARAJAR PORT LIMITED**



**Compliance Report**

**On**

**Ministry's guidelines for**

**“Capacity Optimisation of Existing Operational Ennore Coal Terminal Pvt. Ltd., (ECTPL) at Kamarajar Port Ltd., by Kamarajar Port Ltd., Chennai, Tamilnadu”**

**Point wise compliance report on Ministry's guidelines for Capacity Optimisation of Existing Operational Ennore Coal Terminal Pvt. Ltd., (ECTPL) at Kamarajar Port Ltd., Environmental clearance**

**Ref: MoEF Letter No. 10-28/2005-IA-III dated 17.07.2023.**

**Back ground information**

MoEF had accorded environmental clearance vide letter No. 10-28/2005-IA-III dated 19th May 2006 for the following projects:-

1. Marine Liquid Terminal to handle 3 MTPA.
2. Coal Terminal other than TNEB Users to handle 8 MTPA.
3. Iron Ore Terminal to handle 12 MTPA.
4. Container Terminal for a quay length of 700m to handle 12 MTPA.
5. Associated Capital Dredging of 15.50 million cubic meters.

Out of the above terminals, the coal terminal was entrusted to Kamarajar Port (KPL) has awarded license to M/s. Chettinad International Coal terminal Private Limited (CICTPL) to develop a terminal on design, build, operate, market and transfer basis in 2006 as a common user coal terminal. The terminal was completed with equipment and conveyor systems, yard and evacuations systems with capacity to handle **8 Million Metric Tons Per Annum (MMTPA)** and commenced the operation in the year 2011.

In the year 2020, M/s. CICTPL was acquired by M/s. JSW Infrastructure Limited, the infrastructure arm of the JSW group, one of the biggest steel producer in the private sector. Subsequent to acquisition of CICTPL terminal by JSW Infrastructure Limited in the year 2020, the terminal was rechristened as M/s. Ennore Coal Terminal Private Limited (ECTPL).

**Modified Environmental clearance from MoEF&CC**

Post acquisition of M/s. CICTPL was acquired by M/s. JSW Infrastructure Limited, as per the request of terminal operator, the handling capacity of the terminal is increased from 8MTPA to 9.6MTPA by obtaining the Environmental Clearance. MoEF&CC has accorded environmental clearance for the proposed capacity optimization vide EC Letter No. 10-28/2005-IA.III dated 17.07.2023.

**Compliance report on MoEF Letter No. 10-28/2005-IA-III dated 17<sup>th</sup> July 2023:**

**Special Conditions**

<b>S. No</b>	<b>Description of EC Conditions</b>	<b>Compliance Status</b>
(i)	The EMP prepared for the capacity enhancement shall be implemented and a compliance report shall be submitted to the IRO of the Ministry.	<b>Complied with.</b> <ol style="list-style-type: none"><li>1. Adequate water sprinklers are installed around the stock yard to suppress the dust emission.</li><li>2. Wind shields have already been installed in the predominant wind direction of North and South to a height of 12m to arrest the rise if any.</li><li>3. Greenbelt is being developed with variety of tree species around the stock yard to suppress the dust.</li><li>4. At all the coal transfer towers an in build high efficient water sprinkler are installed to mitigate the dust emission.</li><li>5. The conveyor is totally covered to protect the emission of coal during coal conveying process.</li><li>6. Water spraying nozzles are installed at various locations of the Stacker / Re-claimer to reduce the dust emission with exclusive water tanks and pumps. This is in-build dust suppression system incorporated in the basic design itself.</li><li>7. A compound wall of sufficient height is constructed all sides of the coal stock yard to protect the dust emission.</li><li>8. Coal is dampened by using water to reduce the dust dispersion.</li><li>9. 20 Nos. of peizometric well installed around the stock yard at ECTPL to monitor the ground water quality.</li></ol>

		<p>ROA is submitted to TNPCB on monthly basis.</p> <p>10. Sewage treatment Plant is installed and it is in operation. The outlet water is reused for gardening purpose. Samples are drawn by TNPCB every month.</p>
(ii)	Storage of the Coal shall be under covered shed accommodated with a Stacker reclaimed inside provided with DFS (Atomized Automatic Sprinkling System) including peripheral drainage system, internal roads, fire fighting system etc.,	<p>An amendment to this condition was requested by the Port and MoEFCC was considered the same.</p> <p>An amendment to this EC was granted vide EC letter dated 14.11.2023 with certain specific conditions. The compliance status for the same is enclosed herewith as <b>Annexure-I</b>.</p>
(iii)	All conditions mentioned in the EC 10-28/2005-IA.III dated 19th May, 2006 and its amendments vide letter dated 10th September, 2007, 23rd July, 2009, 12th March, 2015 and 30th October, 2018 shall remain same.	<b>Noted and being complied with.</b>
(iv)	The project proponents will not make any changes in the project nature, structure or configuration and limit themselves to activities for which the Environmental clearance has been given earlier and the activities completed within the validity period of earlier EC dated 19th May, 2006, 10th September, 2007 and 23rd July, 2009. In case, there is a change in the scope of the project, fresh Environmental Clearance shall be obtained as per the provisions laid down in the EIA notification, 2006 as amended	<b>Noted for compliance.</b>

**Annexure-I**

**Point wise compliance report on the conditions stipulated by MoEFCC vide amendment for the EC No. 10-28/2005-IA-III, dated 17.07.2023**

**Amendment letter dated 14.11.2023**

**Specific conditions:**

<b>S. No</b>	<b>Description of EC Conditions</b>	<b>Compliance status</b>
1	Storage of the coal shall be accommodated with staker reclaimed inside provided with DFS (Atomized Automatic Sprinkler System).	<b>Complied with.</b>  1. Adequate water sprinklers are installed by the terminal operator around the stack yard to suppress the dust emission.  2. Water spraying nozzles are installed at various locations of the Stacker / Re-claimer to reduce the dust emission with exclusive water tanks and pumps. This is in-build dust suppression system incorporated in the basic design itself.
2	A buffer zone of 25m on around the boundary of the coal stack yard shall be developed for protection of the air pollution.	<b>Agreed to comply.</b>  The terminal operator M/s.ECTPL is developing Greenbelt with variety of tree species around the stock yard to suppress the dust. A buffer zone around the boundary of the coal stack yard is being developed by the terminal operator for protection from air pollution.
3	Project proponent shall install system to carry out ambient air quality system to	<b>Complied with.</b>

	monitor common criterion relevant to the main pollutants released (e.g., PM10, PM2.5 reference to PM emission and SO2, NOx reference to SO2, NOx emission within and outside the port area atleast at four locations one within and three outside at port area at angle of 120° each) covering upwing and downwind directions.	The terminal operator M/s.ECTPL has installed the Continuous Ambient Air Quality Monitoring Station and the data is transmitted to CARE Air centre of TNPCB.
4	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply with the fugitive emission standards.	<p><b>Complied with.</b></p> <p>The terminal operator had taken pollution control measures to bring down the pollution levels as prescribed by TNPCB by the following measures.</p> <ul style="list-style-type: none"> <li>a) Water sprinklers are installed around the stack yard to suppress the dust emission.</li> <li>b) Wind shields have already been installed in the predominant wind direction of North and South to a height of 12m to arrest the rise if any.</li> <li>c) Greenbelt is being developed with variety of tree species around the stock yard to suppress the dust.</li> <li>d) At all the coal transfer towers an in build high efficient water sprinkler are installed to mitigate the dust emission.</li> <li>e) The conveyor is totally covered to protect the emission of coal during coal conveying process.</li> </ul>

		<p>f) Water spraying nozzles are installed at various locations of the Stacker / Re-claimer to reduce the dust emission with exclusive water tanks and pumps. This is in-build dust suppression system incorporated in the basic design itself. A compound wall of sufficient height is constructed all sides of the coal stock yard to protect the dust emission.</p> <p>g) A compound wall of sufficient height is constructed all sides of the coal stock yard to protect the dust emission.</p> <p>h) Buldozer grader/pay loaders are being used for coal compression to avoid dust elevated levels of dust.</p> <p>i) Coal is dampened by using water to reduce the dust dispersion.</p>
5	Project proponent shall submit summary report on monthly continuous stack emission and air quality monitoring and results of manual air quality and manual results of air quality/fugitive emissions to Regional Office of MoEF&CC, Zonal Office of CPCB and Regional Office of SPCB along with six monthly monitoring report.	<p><b>Complied with.</b></p> <p>Monthly reports are being submitted to O/o DEE, TNPCB.</p> <p>The results of analysis are submitted to Regional Office of MoEF&amp;CC, Zonal Office of CPCB and Regional Office of SPCB along with six monthly monitoring report.</p>
6	Provide the additional wind shields around the raw material stock piles and the existing	<b>Complied with.</b>

	wind shields shall be increased to a height adequate to arrest of fugitive dust outside the premises due to wind around the stack piles.	<p><b>Complied with.</b></p> <p>The height of the existing wind shields is adequately increased in the south side of the stackyard and in the north side.</p> <p>The Work is under progress in the other directions.</p>
7	The project proponent shall regularly monitor the ground water quality atleast twice a year (pre & post monsoon) at sufficient number of piezo meters/sampling wells in the plant and adjacent areas through labs recognized under Environment Protection Act, 1986 and NABL accredited laboratories.	<p><b>Complied with.</b></p> <p>The terminal operator is monitoring the ground water quality at stackyard on monthly basis by NABL accredited laboratory and submitted to the O/o DEE, TNPCB.</p>
8	Garland drains and collection pits of adequate capacity shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface runoff.	<p><b>Complied with.</b></p> <p>The terminal operator had already installed garland drains around the coal stackyard to collect runoff water during heavy rains and the same is collected at settling pond through catch pits and thereby attaining 'Zero Discharge'.</p>
9	Effective safe guard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high level of particulate matter such as around loading, unloading point and all transfer points. Excessive water sprinkling shall be carried out on haul roads. It should ensure that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<p><b>Complied with.</b></p> <p>Water sprinklers are installed around the stack yard to suppress the dust emission.</p> <p>All the necessary measures are being taken by the terminal operator during coal loading and unloading operation.</p>

10	Coal handling areas shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all transfer points should also have efficient dust control arrangements. These should be properly operated and maintained.	<p><b>Complied with.</b></p> <p>Water spraying nozzles are installed at various locations of the Stacker / Re-claimer to reduce the dust emission with exclusive water tanks and pumps. This is in-build dust suppression system incorporated in the basic design itself. A compound wall of sufficient height is constructed all sides of the coal stock yard to protect the dust emission.</p>
11	No further expansion or modification in the plant shall be carried out without prior approval of Ministry of Environment, Forests and Climate Change (MoEF&CC).	<p><b>Agreed to comply.</b></p>
12	Due to the additional mitigation measures, the EMP cost is increased to 480 Lakhs from 205 Lakhs as committed earlier. Committee has noted the same and asked the PP to ensure time bound implementation of above suggested measures.	<p><b>Agreed to comply.</b></p> <p>The EMP activities will be carried out in line with the timelines committed. The completion of the activities will be informed to RO, MoEFCC.</p>



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016865F

Report No : QEN250326004-10

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Report Date : 31 Mar 2025

**Customer Name** : M/s. Ennore Coal Terminal Pvt Limited  
**Customer Address** : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Name** : Effluent Raw Water  
**Sample Description** : Effluent Raw Water  
**Reference** : Test Request Form Dated 24.03.2025  
**Sample Drawn By** : Laboratory  
**Sample Location** : (Catch Pit) Water  
**Sampling Procedure** : SMSLA/EN/SOP/001  
**Sample Quantity** : 10Ltr x 1No  
**Sampling Date** : 24 Mar 2025  
**Sample Received on** : 26 Mar 2025  
**Test Started on** : 26 Mar 2025  
**Test Completed on** : 31 Mar 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results
<b>Chemical</b>				
1	Ammonical Nitrogen as NH <sub>3</sub> -N	APHA 24th Edition 4500 NH <sub>3</sub> B, C - 2023	mg/L	BLQ(LOQ:1.0)
2	BOD at 27°C for 3 days	IS 3025 (Part 44) - 2023	mg/L	8.0
3	Chloride as Cl	APHA 24th Edition 4500 Cl B - 2023	mg/L	15890
4	COD	IS 3025 (Part 58) - 2023	mg/L	40
5	Cyanide as CN	APHA 24th Edition 4500 CN C, E - 2023	mg/L	BLQ(LOQ:0.1)
6	Dissolved Phosphorous as P	APHA 24th Edition 4500 P B, D - 2023	mg/L	0.12
7	Fluoride as F	APHA 24th Edition 4500 F B, D - 2023	mg/L	1.92
8	Free Ammonia as NH <sub>3</sub>	APHA 24th Edition 4500 NH <sub>3</sub> B C - 2023	mg/L	BLQ(LOQ:0.5)
9	Hexavalent Chromium as Cr6+	APHA 24th Edition 3500 Cr B - 2023	mg/L	BLQ(LOQ:0.03)
10	Oil and Grease	APHA 24th Edition 5520 - 2023	mg/L	BLQ(LOQ:4.0)
11	Phenolic Compound as C <sub>6</sub> H <sub>5</sub> OH	APHA 24th Edition 5530 C - 2023	mg/L	BLQ(LOQ:0.002)

  
**S.Kanimozhi**  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchennai Post, Thirumazhisai Vin, Poonamallee Taluk, Chennai - 600124.

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016865F

Report No : QEN250326004-10

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Report Date : 31 Mar 2025

S.NO	Parameter	Test Method	Unit	Results
12	Residual Sodium Carbonate	IS 11624 - 2019	meq/L	BLQ(LOQ:1.5)
13	Sodium as Na	APHA 24th Edition 3500 Na B - 2023	mg/L	2892
14	Sulphate as SO <sub>4</sub>	APHA 24th Edition 4500 SO <sub>4</sub> E - 2023	mg/L	3100
15	Sulphide as S	APHA 24th Edition 4500 S F - 2023	mg/L	BLQ(LOQ:1.0)
16	Total Kjeldahl Nitrogen as N	APHA 24th Edition 4500 N org B - 2023	mg/L	1.6
17	Total Residual Chlorine	APHA 24th Edition 4500 Cl B - 2023	mg/L	BLQ(LOQ:0.1)
<b>Pesticides</b>				
18	2,4-D	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)
19	Isoproturon	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)
20	Malaoxon	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)
21	Malathion	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)
22	Monocrotophos	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)
23	Paraoxon methyl	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)
24	Phorate sulfone	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)
25	Phorate sulfoxide	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)
26	Phorate	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)
<b>Physical</b>				
27	Colour	APHA 24th Edition 2120 B - 2023	Hazen	20
28	Particle Size	IS 6339 - 2013 (Reaffirmed 2018)	--	Passing through 850 Micron sieve
29	pH at 25°C	APHA 24th Edition 4500 H+ B - 2023	--	7.10
30	Temperature	IS 3025 (Part 9) - 2023	°C	26
31	Total Dissolved Solids (Inorganic) @ 550°C	APHA 24th Edition 2540 - 2023	mg/L	23220
32	Total Suspended Solids (TSS)	APHA 24th Edition 2540 D - 2023	mg/L	5.0

  
**S. Kanimozhi**  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Paduchatram Post, Thirumozhissai Vii, Poonamallee Taluk, Chennai - 600124.

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## TEST REPORT



TC-6118

ULR - TC611825000016865F  
Report No : QEN250326004-10

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Report Date: 31 Mar 2025

S.NO	Parameter	Test Method	Unit	Results
<b>Poly Chlorinated Biphenyl (PCBs)</b>				
33	2,2,3,3,4,4,5,5-Octachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
34	2,2,3,4,4,5,5-Heptachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
35	2,2,3,4,4,5-Hexachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
36	2,2,3,4,5,6-Hexachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
37	2,2,3,5-Tetrachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
38	2,2,4,4,5,5-Hexachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
39	2,2,4,5,5-Pentachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
40	2,2,5,5-Tetrachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
41	2,2,5-Trichlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
42	2,3,4,4,5-Pentachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
43	2,4,4-Trichlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
44	2,4,5-Trichlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>				
45	Acenaphthylene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
46	Acenaphthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
47	Anthracene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
48	Benz(a)anthracene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
49	Benzo g,h,i perylene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
50	Benzo(a)pyrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
51	Benzo(b)fluoranthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
52	Benzo(k)fluoranthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
53	Chrysene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
54	Dibenz a,h anthracene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
55	Fluoranthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
56	Fluorene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
57	Indeno(1,2,3-cd)pyrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
58	Napthalene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
59	Phenanthrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)
60	pyrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016865F

Report No : QEN250326004-10

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Report Date: 31 Mar 2025

S.NO	Parameter	Test Method	Unit	Results
Trace Elements				
61	Arsenic	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.002)
62	Boron	IS 3025 (Part 65) - 2022	mg/L	1.647
63	Cadmium	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.005)
64	Copper	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.003)
65	Lead	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.005)
66	Mercury	EPA 200.8 - 1994	mg/L	BLQ(LOQ:0.004)
67	Nickel	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.003)
68	Selenium	IS 3025 (Part 65) - 2022	mg/L	BLO(LOQ:0.001)
69	Total Chromium	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.003)
70	Zinc	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.007)

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016866F

Report No : QEN250326004-11

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Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Coal Terminal Pvt Limited  
Customer Address : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Name : Effluent Treated Water  
Sample Description : Effluent Treated Water  
Reference : Test Request Form Dated 24.03.2025  
Sample Drawn By : Laboratory  
Sample Location : Settling Pond  
Sampling Procedure : SMSLA/EN/SOP/001  
Sample Quantity : 10 Ltr x 1No  
Sampling Date : 24 Mar 2025  
Sample Received on : 26 Mar 2025  
Test Started on : 26 Mar 2025  
Test Completed on : 31 Mar 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	As per TNPCB Limit
<b>Chemical</b>					
1	Ammonical Nitrogen as NH <sub>3</sub> -N	APHA 24th Edition 4500 NH <sub>3</sub> B, C - 2023	mg/L	BLQ(LOQ:1.0)	50 Max
2	BOD at 27°C for 3 days	IS 3025 (Part 44) - 2023	mg/L	4.5	30 Max
3	Chloride as Cl	APHA 24th Edition 4500 Cl B - 2023	mg/L	610	1000 Max
4	COD	IS 3025 (Part 58) - 2023	mg/L	20	250 Max
5	Cyanide as CN	APHA 24th Edition 4500 CN C, E - 2023	mg/L	BLQ(LOQ:0.1)	0.2 Max
6	Dissolved Phosphorous as P	APHA 24th Edition 4500 P B, D - 2023	mg/L	0.72	5 Max
7	Fluoride as F	APHA 24th Edition 4500 F B, D - 2023	mg/L	0.82	2 Max
8	Free Ammonia as NH <sub>3</sub>	APHA 24th Edition 4500 NH <sub>3</sub> B C - 2023	mg/L	BLQ(LOQ:0.5)	5 Max
9	Hexavalent Chromium as Cr6+	APHA 24th Edition 3500 Cr B - 2023	mg/L	BLQ(LOQ:0.03)	0.1 Max
10	Oil and Grease	APHA 24th Edition 5520 - 2023	mg/L	BLQ(LOQ:4.0)	10 Max
11	Phenolic Compound as C <sub>6</sub> H <sub>5</sub> OH	APHA 24th Edition 5530 C - 2023	mg/L	BLQ(LOQ:0.002)	1 Max

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016866F

Report No : QEN250326004-11

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Report Date : 31 Mar 2025

S.NO	Parameter	Test Method	Unit	Results	As per TNPCB Limit
12	Residual Sodium Carbonate	IS 11624 - 2019	meq/L	BLQ(LOQ:1.5)	--
13	Sodium as Na	APHA 24th Edition 3500 Na B - 2023	mg/L	91	--
14	Sulphate as SO <sub>4</sub>	APHA 24th Edition 4500 SO <sub>4</sub> E - 2023	mg/L	280	1000 Max
15	Sulphide as S	APHA 24th Edition 4500 S F - 2023	mg/L	BLQ(LOQ:1.0)	2 Max
16	Total Kjeldahl Nitrogen as N	APHA 24th Edition 4500 N org B - 2023	mg/L	2.8	100 Max
17	Total Residual Chlorine	APHA 24th Edition 4500 Cl B - 2023	mg/L	BLQ(LOQ:0.1)	1 Max
<b>Pesticides</b>					
18	2,4-D	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)	Absent
19	Isoproturon	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)	Absent
20	Malathion	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)	Absent
21	Malathion	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)	Absent
22	Monocrotophos	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)	Absent
23	Paraoxon methyl	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)	Absent
24	Phorate sulfone	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)	Absent
25	Phorate sulfoxide	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.005)	Absent
26	Phorate	SMSLA/LS/SOP/01 - 2024	µg/L	BLQ(LOQ:0.01)	Absent
<b>Physical</b>					
27	Colour	APHA 24th Edition 2120 B - 2023	Hazen	25	--
28	Particle Size	IS 6339 - 2013 (Reaffirmed 2018)	--	Passing through 850 Micron sieve	--
29	pH at 25°C	APHA 24th Edition 4500 H+ B - 2023	--	7.44	5.5 - 9.0
30	Temperature	IS 3025 (Part 9) - 2023	°C	26	40°C at the point of discharge
31	Total Dissolved Solids (Inorganic) @ 550°C	APHA 24th Edition 2540 - 2023	mg/L	1631	2100 Max

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016866F

Report No : QEN250326004-11

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Report Date: 31 Mar 2025

S.NO	Parameter	Test Method	Unit	Results	As per TNPCB Limit
32	Total Suspended Solids (TSS)	APHA 24th Edition 2540 D - 2023	mg/L	3.6	100 Max
<b>Poly Chlorinated Biphenyl (PCBs)</b>					
33	2,2,3,3,4,4,5,5-Octachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
34	2,2,3,4,4,5,5-Heptachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
35	2,2,3,4,4,5-Hexachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
36	2,2,3,4,5,6-Hexachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
37	2,2,3,5-Tetrachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
38	2,2,4,4,5,5-Hexachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
39	2,2,4,5,5-Pentachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
40	2,2,5,5-Tetrachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
41	2,2,5-Trichlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
42	2,3,4,4,5-Pentachlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
43	2,4,4-Trichlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
44	2,4,5-Trichlorobiphenyl	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
45	Acenaphthylene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
46	Acenaphthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
47	Anthracene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
48	Benzo(a)anthracene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
49	Benzo(g,h,i)perylene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
50	Benzo(a)pyrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
51	Benzo(b)fluoranthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
52	Benzo(k)fluoranthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
53	Chrysene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
54	Dibenz(a,h)anthracene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
55	Fluoranthene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
56	Fluorene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
57	Indeno(1,2,3-cd)pyrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
58	Napthalene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
59	Phenanthrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016866F  
Report No : QEN250326004-11

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Report Date : 31 Mar 2025

S.NO	Parameter	Test Method	Unit	Results	As per TNPCB Limit
60	pyrene	SMSLA/GC/SOP/30 - 2024	mg/L	BLQ(LOQ:0.00001)	--
<b>Trace Elements</b>					
61	Arsenic	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.002)	0.2 Max
62	Boron	IS 3025 (Part 65) - 2022	mg/L	1.255	2 Max
63	Cadmium	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.005)	2 Max
64	Copper	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.003)	3 Max
65	Lead	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.005)	0.1 Max
66	Mercury	EPA 200.8 - 1994	mg/L	BLQ(LOQ:0.004)	0.01 Max
67	Nickel	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.003)	3 Max
68	Selenium	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.001)	0.05 Max
69	Total Chromium	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.003)	2 Max
70	Zinc	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.007)	1 Max

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

Remarks : The Effluent Treated Water Sample Conforms to the TNPCB Discharge limit for the Parameters tested above.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016857F

Report No: QEN250326004-12

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Report Date: 31 Mar 2025

**Customer Name** : M/s. Ennore Coal Terminal Pvt Limited  
**Customer Address** : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Name** : Ground Water  
**Sample Description** : Ground Water  
**Reference** : Test Request Form Dated 24.03.2025  
**Sample Drawn By** : Laboratory  
**Sample Location** : Piezometric Well (13 & 14)  
**Sample Procedure** : SMSLA/EN/SOP/001  
**Sample Quantity** : 5Ltr x 1No  
**Sampling Date** : 24 Mar 2025  
**Sample Received on** : 26 Mar 2025  
**Test Started on** : 27 Mar 2025  
**Test Completed on** : 31 Mar 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results
<b>Chemical</b>				
1	Reactive Silica as SiO <sub>2</sub>	APHA 24th Edition 4500 SiO <sub>2</sub> D - 2023	mg/L	165
<b>Clause 4, Table 1 Organoleptic And Physical parameters</b>				
2	Colour	IS 3025 (Part 04) - 2021	Hazen	20
3	Odour	IS 3025 (Part 05) - 2018	--	Agreeable
4	pH at 25°C	IS 3025 (Part 11) - 2022	--	7.15
5	Total Dissolved Solids @ 180°C	IS 3025 (Part 16) - 2023	mg/L	16720
6	Turbidity	IS 3025 (Part 10) - 2023	NTU	16.2
<b>Clause 4, Table 2 General Parameters Concerning Substances Undesirable In Excessive Amounts</b>				
7	Aluminium	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.001)
8	Calcium as Ca	IS 3025 (Part 40) - 2024	mg/L	505
9	Chloride as Cl	IS 3025 (Part 32) - 1988 (Reaffirmed 2019)	mg/L	7876
10	Free Residual Chlorine	IS 3025 (Part 26) - 2021	mg/L	BLQ(LOQ:0.1)
11	Iron as Fe	IS 3025 (Part 53) - 2024	mg/L	1.23
12	Magnesium as Mg	IS 3025 (Part 46) - 2023	mg/L	532

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**TEST REPORT**

TC-6118

ULR - TC611825000016857F

Report No : QEN250326004-12

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Report Date: 31 Mar 2025

S.NO	Parameter	Test Method	Unit	Results
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24) Sec 1 - 2022	mg/L	3220
14	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23) - 2023	mg/L	323
15	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21) - 2009 (Reaffirmed 2019)	mg/L	3450
16	Zinc	IS 3025 (Part 65) - 2022	mg/L	0.015
Clause 4, Table 3 Parameters Concerning Toxic Substances				
17	Arsenic	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.001)
18	Cadmium	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.001)
19	Lead	IS 3025 (Part 65) - 2022	mg/L	BLQ(LOQ:0.001)
20	Mercury	EPA 200.8 - 1994	mg/L	BLQ(LOQ:0.0005)
Others				
21	Appearance before filtration	APHA 24th Edition 2110 - 2023	--	Clear
22	Carbonate Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21) - 2009 (Reaffirmed 2019)	mg/L	323
23	Conductivity at 25°C	IS 3025 (Part 14) - 2013 (Reaffirmed 2019)	µS/cm	26960
24	Non-Carbonate Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21) - 2009 (Reaffirmed 2019)	mg/L	3127
25	Phenolphthalein Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23) - 2023	mg/L	BLQ(LOQ:2.0)
26	Total Suspended Solids (TSS)	IS 3025 (Part 17) - 2022	mg/L	2.4

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification. NTU : Nephelometric Turbidity Units

/\*\*\*\*\* End of the Report \*\*\*\*\*/

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## TEST REPORT



TC-6118

ULR - TC611825000016848F

Report No : QEN250326004-01

Page 1 of 1

Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Coal Terminal Pvt Limited  
Customer Address : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 24 to 25 Mar 2025  
10.10 am to 10.10 am  
Sample Description : Ambient Air Quality Monitoring Sample Received on : 26 Mar 2025  
Reference : Test Request Form Dated 24.03.2025 Test Started on : 26 Mar 2025  
Sample Drawn By : Laboratory Test Completed on : 31 Mar 2025  
Sample Location : Near Substation - 1  
Sampling Procedure : IS 5182  
Relative Humidity : 54% Ambient Temperature : 35°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	21.6	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	59.5	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	28.1	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	10.8	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	1.20	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.02	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	8.63	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

S.Kanimozhi  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchennai Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements, while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016849F

Report No : QEN250326004-02

Page 1 of 1

Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Coal Terminal Pvt Limited  
Customer Address : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 24 to 25 Mar 2025  
10.30 am to 10.30 am  
Sample Description : Ambient Air Quality Monitoring Sample Received on : 26 Mar 2025  
Reference : Test Request Form Dated 24.03.2025 Test Started on : 26 Mar 2025  
Sample Drawn By : Laboratory Test Completed on : 31 Mar 2025  
Sample Location : BTLS - North East Corner  
Sampling Procedure : IS 5182  
Relative Humidity : 54% Ambient Temperature : 35°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	21.8	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	58.7	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	28.6	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	10.4	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	0.98	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.04	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	10.02	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

S. Kanimozhi

S. Kanimozhi  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Paduchatram Post, Thiruvallur District, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable reagent samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental reagent samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016850F

Report No : QEN250326004-03

Page 1 of 1

Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Coal Terminal Pvt Limited  
Customer Address : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 24 to 25 Mar 2025  
10.55 am to 10.55 am  
Sample Description : Ambient Air Quality Monitoring Sample Received on : 26 Mar 2025  
Reference : Test Request Form Dated 24.03.2025 Test Started on : 26 Mar 2025  
Sample Drawn By : Laboratory Test Completed on : 31 Mar 2025  
Sample Location : Near Stores  
Sampling Procedure : IS 5182  
Relative Humidity : 54% Ambient Temperature : 36°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	20.7	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	57.9	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	27.6	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	9.8	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	0.87	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.05	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	9.44	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

\*\*\*\*\* End of the Report \*\*\*\*\*

S. Kanimozhi

S.Kanimozhi

Authorized Signatory-Chemical

Laboratory Address: 306, Thiruvallur High Road, Paduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable reagent samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental reagent samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016851F

Report No : QEN250326004-04

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Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Coal Terminal Pvt Limited  
Customer Address : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 24 to 25 Mar 2025  
12.00 pm to 12.00 pm  
Sample Description : Ambient Air Quality Monitoring Sample Received on : 26 Mar 2025  
Reference : Test Request Form Dated 24.03.2025 Test Started on : 26 Mar 2025  
Sample Drawn By : Laboratory Test Completed on : 31 Mar 2025  
Sample Location : Near Security Main Gate  
Sampling Procedure : IS 5182  
Relative Humidity : 55% Ambient Temperature : 36°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH <sub>3</sub>	IS 5182 (Part 25) - 2018	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10) - 1999 (Reaffirmed 2019)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 06) - 2006 (Reaffirmed 2022)	22.3	µg/m <sup>3</sup>	80 Max
4	Ozone as O <sub>3</sub>	IS 5182 (Part 09) - 1974 (Reaffirmed 2019)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) - 2006 (Reaffirmed 2022)	60.1	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) - 2019	29.6	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 02) - 2001 (Reaffirmed 2022)	10.9	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GC/SOP/46 - 2024	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Elements</b>					
9	Arsenic	Compendium Method IO - 3.4 - 1999	1.11	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO - 3.4 - 1999	0.03	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO - 3.4 - 1999	9.12	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds-NAAQM</b>					
12	Benzene	SMSLA/GC/SOP/43 - 2024	BLQ(LOQ:1.0)	µg/m <sup>3</sup>	05 Max

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the NAAQS Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

S. Kanimozhi

S.Kanimozhi  
Authorized Signatory-Chemical

Laboratory Address: 38/6, Thiruvallur High Road, Paduchattam Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016852F

Report No : QEN250326004-05

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Report Date : 31 Mar 2025

**Customer Name** : M/s. Ennore Coal Terminal Pvt Limited  
**Customer Address** : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Name** : Ambient Noise Level Monitoring  
**Sample Description** : Ambient Noise Level Monitoring  
**Reference** : Test Request Form Dated 24.03.2025  
**Sample Drawn By** : Laboratory  
**Sampling Procedure** : IS 9989

**Sampling Date** : 25 Mar 2025  
**Sample Received on** : 26 Mar 2025  
**Test Started on** : 26 Mar 2025  
**Test Completed on** : 29 Mar 2025

### TEST RESULTS

SL No	Location	Noise Level dB (A)		CPCB Standards (Industrial Area) For Noise in Leq dB (A)	
		Day Time	Night Time	Day Limit	Night Limit
1	Near Security Main Gate	67.0	64.3	75 dB (A)	70 dB (A)

Conclusion : The above tested Sample Conforms to the CPCB Standards for the above tested Locations.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

**S.Kanimozhi**  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Paducherram Post, Tainamuthal Via, Poornamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016853F

Report No : QEN250326004-06

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Report Date : 31 Mar 2025


**Customer Name** : M/s. Ennore Coal Terminal Pvt Limited  
**Customer Address** : S. No. 143, Puzhidhivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Description** : Stack Emission Monitoring  
**Reference** : Test Request Form Dated 24.03.2025  
**Sample Drawn By** : Laboratory  
**Sample Location** : DG Set 400 KVA (Sub Station - 1)  
**Sampling Procedure** : IS 11255 & SMSLA/EN/SOP/017  
**Sampling Date** : 24 Mar 2025  
**Sample Received on** : 26 Mar 2025  
**Test Started on** : 26 Mar 2025  
**Test Completed on** : 29 Mar 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Limit as per CPCB Specification
<b>Chemical</b>					
1	Carbon Dioxide as CO <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	3.9	--
2	Carbon Monoxide as CO	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.30	3.5 Max
3	Nitrogen Oxides as NO <sub>x</sub>	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.28	0.40 Max
4	Oxygen as O <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	15.6	--
5	Particulate Matter	IS 11255 (Part 01) - 1985 (Reaffirmed 2019)	g/kw-hr	0.009	0.02 Max
6	Stack temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	K	409	--
7	Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 02) - 1985 (Reaffirmed 2019)	mg/Nm <sup>3</sup>	21.3	--
8	Velocity	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	m/s	11.6	--
9	Volume of Gas Discharged	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	Nm <sup>3</sup> /hr	536	--
10	Ambient Temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	°C	35	--
11	Stack Diameter	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	0.15	--
12	Port hole Height from 'G' level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	5	--
13	Stack Height from 'G' Level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	7	--

**Conclusion** : The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

  
**S.Kanimozhi**  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Pudukkottai Post, Thiruvallur District, Pudukkottai Taluk, Chennai - 600124

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC61182500016854F

Report No : QEN250326004-07

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Report Date : 31 Mar 2025

Customer Name : M/s. Ennore Coal Terminal Pvt Limited  
Customer Address : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
Sample Description : Stack Emission Monitoring  
Reference : Test Request Form Dated 24.03.2025  
Sample Drawn By : Laboratory  
Sample Location : DG Set 400 KVA (Electrical Room - 1)  
Sampling Procedure : IS 11255 & SMSLA/EN/SOP/017  
Sampling Date : 24 Mar 2025  
Sample Received on : 26 Mar 2025  
Test Started on : 26 Mar 2025  
Test Completed on : 29 Mar 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Limit as per CPCB Specification
<b>Chemical</b>					
1	Carbon Dioxide as CO <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	3.7	--
2	Carbon Monoxide as CO	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.36	3.5 Max
3	Nitrogen Oxides as NO <sub>x</sub>	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.31	0.40 Max
4	Oxygen as O <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	16.3	--
5	Particulate Matter	IS 11255 (Part 01) - 1985 (Reaffirmed 2019)	g/kw-hr	0.011	0.02 Max
6	Stack temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	K	407	--
7	Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 02) - 1985 (Reaffirmed 2019)	mg/Nm <sup>3</sup>	20.3	--
8	Velocity	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	m/s	11.11	--
9	Volume of Gas Discharged	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	Nm <sup>3</sup> /hr	516	--
10	Ambient Temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	°C	35	--
11	Stack Diameter	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	0.15	--
12	Port hole Height from 'G' level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	5	--
13	Stack Height from 'G' Level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	7	--

Conclusion : The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

  
S.Kanimozhi  
Authorized Signatory-Chemical

Laboratory Address: 39/8, Thiruvallur High Road, Pudukottam Post, Thiruvallur Taluk, Chennai - 600124.

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016855F

Report No : QEN250326004-08

Page 1 of 1

Report Date : 31 Mar 2025

**Customer Name** : M/s. Ennore Coal Terminal Pvt Limited  
**Customer Address** : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Description** : Stack Emission Monitoring  
**Reference** : Test Request Form Dated 24.03.2025  
**Sample Drawn By** : Laboratory  
**Sample Location** : DG Set 200 KVA (Sub Station - 2)  
**Sampling Procedure** : IS 11255 & SMSLA/EN/SOP/017  
**Sampling Date** : 24 Mar 2025  
**Sample Received on** : 26 Mar 2025  
**Test Started on** : 26 Mar 2025  
**Test Completed on** : 29 Mar 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Limit as per CPCB Specification
<b>Chemical</b>					
1	Carbon Dioxide as CO <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	2.9	--
2	Carbon Monoxide as CO	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.21	3.5 Max
3	Nitrogen Oxides as NO <sub>x</sub>	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.19	0.40 Max
4	Oxygen as O <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	17.2	--
5	Particulate Matter	IS 11255 (Part 01) - 1985 (Reaffirmed 2019)	g/kw-hr	0.014	0.02 Max
6	Stack temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	K	386	--
7	Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 02) - 1985 (Reaffirmed 2019)	mg/Nm <sup>3</sup>	BLQ(LOQ:3.0)	--
8	Velocity	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	m/s	11.30	--
9	Volume of Gas Discharged	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	Nm <sup>3</sup> /hr	553	--
10	Ambient Temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	°C	36	--
11	Stack Diameter	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	0.15	--
12	Port hole Height from 'G' level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	5	--
13	Stack Height from 'G' Level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	8	--

**Conclusion** : The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

S. Kanimozhi

**S. Kanimozhi**  
Authorized Signatory-Chemical

Laboratory Address: 35/6, Thiruvallur High Road, Paduchattam Post, Thirumazhisai Vii, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements, while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611825000016856F

Report No : QEN250326004-09

Page 1 of 1

Report Date : 31 Mar 2025

**Customer Name** : M/s. Ennore Coal Terminal Pvt Limited  
**Customer Address** : S. No. 143, Puzhithivakkam Village, Near NCTPS Quarters Vallur - Post, Chennai - 600120.  
**Sample Description** : Stack Emission Monitoring  
**Reference** : Test Request Form Dated 24.03.2025  
**Sample Drawn By** : Laboratory  
**Sample Location** : DG Set 500 KVA (Ship Unloader - 2)  
**Sampling Procedure** : IS 11255 & SMSLA/EN/SOP/017  
**Sampling Date** : 24 Mar 2025  
**Sample Received on** : 26 Mar 2025  
**Test Started on** : 26 Mar 2025  
**Test Completed on** : 29 Mar 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Limit as per CPCB Specification
<b>Chemical</b>					
1	Carbon Dioxide as CO <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	3.3	—
2	Carbon Monoxide as CO	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.25	3.5 Max
3	Nitrogen Oxides as NO <sub>x</sub>	SMSLA/EN/SOP/017 - 2024	g/kw-hr	0.32	0.40 Max
4	Oxygen as O <sub>2</sub>	SMSLA/EN/SOP/017 - 2024	%	16.0	—
5	Particulate Matter	IS 11255 (Part 01) - 1985 (Reaffirmed 2019)	g/kw-hr	0.010	0.02 Max
6	Stack temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	K	419	—
7	Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 02) - 1985 (Reaffirmed 2019)	mg/Nm <sup>3</sup>	26.8	—
8	Velocity	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	m/s	12.50	—
9	Volume of Gas Discharged	IS 11255 (Part 3) - 2008 (Reaffirmed 2018)	Nm <sup>3</sup> /hr	565	—
10	Ambient Temperature	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	°C	34	—
11	Stack Diameter	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	0.15	—
12	Port hole Height from 'G' level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	10	—
13	Stack Height from 'G' Level	IS 11255 (Part 03) - 2008 (Reaffirmed 2018)	M	12	—

**Conclusion** : The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

**S. Kanimozhi**  
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Padubhatram Post, Thirumozhisai Via, Poornimalai Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable reagent samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental reagent samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.

**M/s. Ennore Coal Terminal (P) Ltd**

High efficient in build water sprinkler system provided in the staker/reclaimer



**Commitment given to EAC during Grant of EC for Capacity  
Optimization of Operational ECTPL Terminal at M/s. Kamarajar Port**

Sl. No	Parameters	Estimated Cost (Rs. Lakhs)
1	Augmentation of Dust Suppression & Fire Fighting System	150
2	Augmentation of Green Belt	50
3	Augmentation of Wind shield	80
4	Study for adequacy of Drainage System, Catch Pits and Settling Ponds	20
5	Road Sweeping machine	80
6	Corporate Environmental Responsibility	100
	Total	480





## 1. Augmentation of Dust Suppression & Fire Fighting System



DSS is augmented by incorporating an automation system for sprinkling of water at regular intervals





## 2. Augmentation of Green Belt



## Existing Green belt at ECTPL Terminal





## 2. Augmentation of Green Belt



## Augmentation Green belt at ECTPL Terminal



### 3. Augmentation of Wind shield



North side Wind shield



South side Wind shield

**Wind shield are completely revamped and increased to height from 12 mts to 13 mts**





#### 4. Study for adequacy of Drainage System, Catch Pits and Settling Ponds



Hydraulic adequacy study of Drainage System, Catch Pits and Settling Ponds is carried out by  
**M/s. Building Environment India Pvt. Ltd.,**  
(NABET Certificate No.NABET/EIA/2225/RA/267\_Rev01)

and the final conclusion is as follows:

***Holding capacity of Catchpits and Settling Pond is 6.5 times Higher than the total runoff from entire Terminal (including non-cargo area) and 18.5 times higher than the run-off water generated only from cargo stackyard. Therefore the existing Catchpits and Settling Pond is adequate to hold the runoff of Rain/DSS water generated from the Stack yard as their capacity is 18.5 times higher than the peak requirement, therefore the Terminal can safely handle more than 11MMT of cargo by effectively rotating the stackyard.***





## 5. Road Sweeping machine



**Road Sweeping machine is put into use.**

**Regular cleaning of any dust in the service  
road at the Terminal**





## 6. Corporate Environmental Responsibility

Sl. No.	Thematic Head	Description of Activity (Period :Sep-23 - Mar-25)	No.	Rs. Lakhs	Status
1	Environment	Establishment of Mahavam under Miyawaki method- Green TN Mission	1	20	Completed
2	Environment	Greenery development -Avenue Plantation -Mass tree plantation drive	5000	5	Completed
3	Environment	Support to development of children's park at Guindy	1	20	Completed
4	Water	Support to install RO/Water purifier systems - village/school/hospital	10	40	50% Completed. Remaining in progress
5	Rural infrastructure	Support to install Solar street/inox lighting systems	100	20	Completed
6	Health& Nutrition	Eye camp -vision screening for community and students	1	10	Ongoing
7	Sanitation	Construction of new community toilet	1	15	Completed
Total				130	



## 6. Corporate Environmental Responsibility



**1. Establishment of Mahavam under Miyawaki method- Green TN Mission**



**2.Greenery development -Avenue Plantation -Mass tree plantation drive**



**4. Support to install RO/Water purifier systems - village/school/hospital**





## 6. Corporate Environmental Responsibility



5. Support to install Solar street/Imox lighting systems



6. Eye camp -vision screening for community and students



7. Construction of new community toilet



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

From

D. Balasubramanian, M.Sc., B.Ed.,  
Deputy Chief Scientific Officer,  
District Environmental Laboratory, Manali  
Tamil Nadu Pollution Control Board,  
920/1, Poonamallee High Road,  
Arumbakkam,  
Chennai-106

To

M/s. Ennore Coal Terminal Pvt Ltd.,  
Formerly M/s. Chettinad International  
Coal Terminal Pvt. Ltd.,  
No. 143 Puzhdhivakkam Village,  
Ponneri Taluk,  
Chennai - 600 120.

Lr.No.TNPC Bd/DEL-MNL/Air Survey/F, No.10/23-24 Dt. 02.01.2025

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality /  
Stack Monitoring / Ambient Noise Level Survey - Reg.

- Ref: 1. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.10/2024-25 dt:23.05.2024  
2. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.10/2024-25 dt:20.12.2024  
3. Your Lr.No. Nil  
4. Cash Receipt No. 126 dt. 26.06.2024 Rs.1,02,000/-  
5. Cash Receipt No. 252 dt. 27.12.2024 Rs.15,240/-

I am herewith sending the Report of Analysis of Ambient Air Quality / Stack Monitoring / Ambient Noise Level Survey conducted in the vicinity of your industry **M/s. Ennore Coal Terminal Pvt Ltd.,** 143 Puzhdhivakkam Village, Chennai - 120 on **20.12.2024** with an invoice for a sum of Rs. 1,17,240/- (Rupees One Lakh Seventeen Thousand Two Hundred and Forty only) towards the above survey / analytical charges, and the same has been adjusted vide reference (3) cited.

Kindly acknowledge the receipt of the above without fail.

  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali

Encl.: As above.

Copy submitted to:

1. The District Environmental Engineer, TNPC Bd, Ambattur for favour of kind information please.
2. Copy to file.



# TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

## AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No.61 /AAQS/2024-25

Date: 02.01.2025

1. Name of the Industry : **M/s. Ennore Coal Terminal Pvt Ltd.,**
2. Address of the Industry : **143, Puzuthivakkam Village, Chennai – 600 120.**
3. Date of Survey : **20.12.2024**
4. Duration of Survey : **8 Hours / 24 hours**
5. Category : **Red / Orange / Green – Large / Medium / Small**
6. Land use classification : **Industrial / Commercial / Residential / Sensitive**

### Meteorological Conditions

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	26	29		82	89
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	NNW– SSE		Mean Wind Speed (km/hr)	22.3	

### Ambient Air Quality Survey Results

Sl. No	Location	Direction *	Distance (m) *	Height Form GL (m)	Pollutants Concentration (microgram / m <sup>3</sup> )			
					PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>2</sub>
1	On top of Platform near BTLS	NE	300	3.0	–	78	14	21
2	On top of Scaffolding near Port Office (Coal unloading Area)	E	100	3.0	–	80	12	17
3	On top of Platform Adjacent to Wagon Gate	SE	353	3.0	40	88	15	24
4	On top of Platform near Sub Station –I	SW	353	3.0	–	84	13	18
5	On top of Platform near Admin building	W	100	3.0	–	76	9	15
6	On top of Scaffolding near North Wind Shield	NW	353	3.0	28	72	8	13

Note: \* With respect to major emission sources. The analytical results are restricted to the sampling period of 8 hrs/24hrs

*[Signature]*  
02/1/25  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO <sub>2</sub>	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO <sub>2</sub>	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA: 2012



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

**AMBIENT AIR QUALITY SURVEY**  
Schematic Diagram Showing Location of Sampling

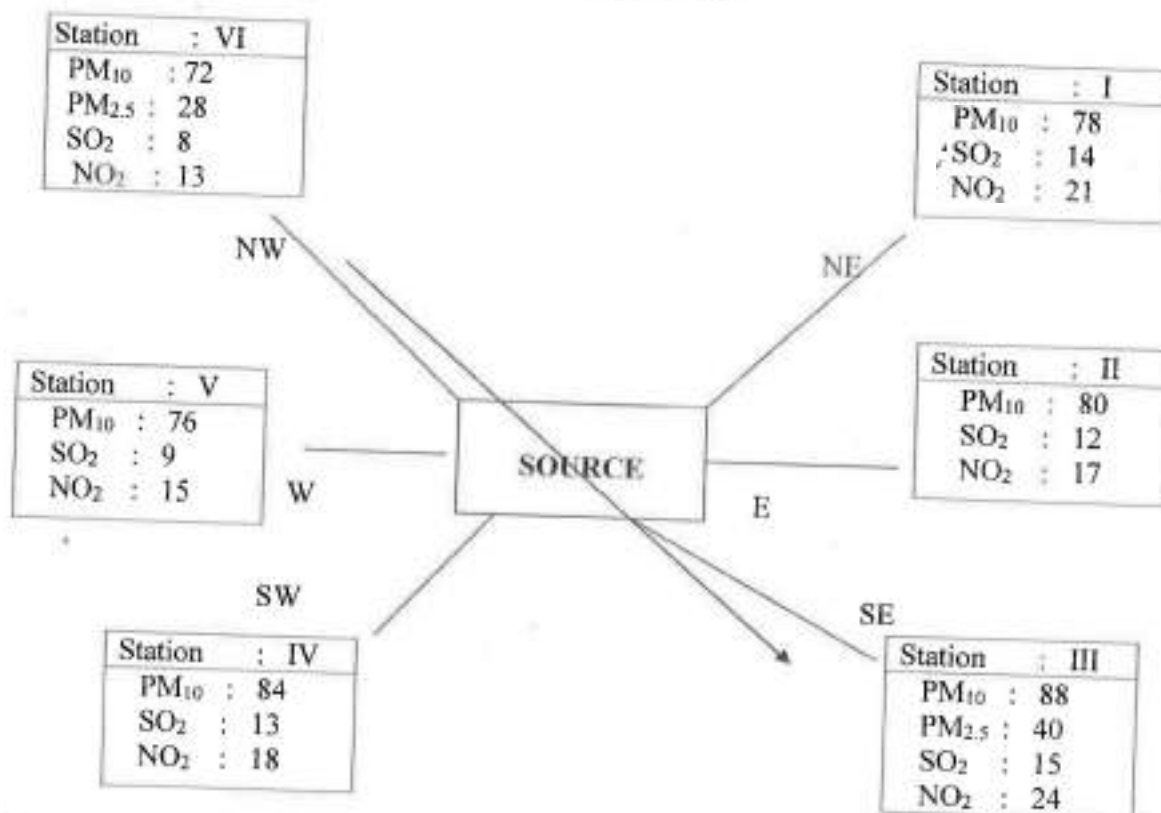
Report No. 61/AAQ/SM/2024-25

Name and Address of the Industry

: **M/s. Ennore Coal Terminal Pvt Ltd.,**  
143, Puzuthivakkam Village, Chennai - 600 120.

Date of Survey

: **20.12.2024**



Note: All the values are expressed in  $\mu\text{g}/\text{m}^3$  and restricted to sampling period of 8 hrs/24hrs

Meteorological Conditions:	
Predominant Wind Direction	NNW - SSE
Wind Speed (Km/hr)	22.3
Weather Condition	Partially Cloudy
Rainfall	Nil

*[Signature]*  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

**STACK MONITORING SURVEY – Report of Analysis**

Report No. 61 / SM/2024-25

Date: 02.01.2025

1. Name of the Industry : **M/s. Ennore Coal Terminal Pvt Ltd.,**  
2. Address of the Industry : **143, Puzuthivakkam Village, Chennai – 600 120.**  
3. Date of Survey : **20.12.2024**  
4. Type of Industry : **Coal handling /Chemical/Sugar/Paper & Pulp/  
Power plant / Textile Processing**

**Stack Monitoring Survey Results**

Sl. No.	Stack attached to	Fuel used	Stack Temp °K	Velocity in (m/sec)	Discharge rate In Nm <sup>3</sup> /hr	Pollutants (mg / Nm <sup>3</sup> )		
						PM	SO <sub>2</sub>	NO <sub>x</sub>
1	DG – 500 KVA-Shipunloader (PORT) (Idling Condition)	HSD	480	22.9	1623	26.3	23.5	214.3
2	DG – 400 KVA (SUB STATION-I) (Idling Condition)	HSD	486	26.8	1876	28.4	25.6	242.4

Test Performed	Test Method
PM10	IS 11255 : (Part 1) – 1985
SO <sub>2</sub>	IS 11255 : (Part 2) – 1985
NO <sub>x</sub>	IS 11255 : (Part 7) – 2005

  
Deputy Chief Scientific Officer,  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

Report No. 61/AAQ/SM/2024-25

**Stack Details**

1. Name and Address of the Industry : **M/s. Ennore Coal Terminal Pvt Ltd.,**  
143, Puzuthivakkam Village, Chennai - 600 120.
2. Date of Survey : **20.12.2024**

Sl. No.	Particulars	1	2
1.	Stack attached to	DG-500 KVA	DG-400 KVA
2.	Details of process stack	Ship unloader (PORT)	Sub-station - I
3.	Height from G Level in (m)	12	12
4.	Diameter in (m)	0.2	0.2
5.	Port hole height from Ground Level or sbends or ducts in (m)	10	10
6.	Fuel Used (with % Sulphur content)	Liquid HSD	Liquid HSD
7.	Fuel Consumption rate per hr (mention units)	--	--
8.	Type of Stack and capacity	Round	Round
9.	Production detail as on 20.12.2024	Coal Import (Discharge) - 8,491 MT	
10.	APC Measures provided	Stack Provided	Stack Provided
11.	APC functional status	Functioning	Functioning
13.	Ambient temp in °K	301	301
14.	Temp of flue gas in °K	480	486
15.	Velocity of flue gas in m/sec	22.9	26.8
16.	Volume of flue gas sampled in m <sup>3</sup>	1.010	1.008
17.	Gaseous Discharge rate per day in Nm <sup>3</sup> /hr	1623	1876

*[Signature]*  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

**STACK MONITORING SURVEY – Additional details**

Report No. 61/SM/2024-25

Date: 02.01.2025

1. Name of the Industry : **M/s. Ennore Coal Terminal Pvt Ltd.,**  
2. Address of the Industry : **143, Puzuthivakkam Village, Chennai – 600 120.**  
3. Date of Survey : **20.12.2024**  
4. Type of Industry : **Coal handling /Chemical/Sugar/Paper & Pulp/  
Power plant / Textile Processing**

**Stack Monitoring Additional details**

Sl. No.	Details of stack mentioned in the Air Consent order	Details of stack available and in working condition	Details of stack for which stack Emission sampling have been done	Justification for the left out of stack Emission Sampling
1.	DG – 500 KVA-Shipunloader (PORT) (Idling Condition)	Working	Sampling Done	—
2.	DG – 400 KVA (SUB STATION-I) (Idling Condition)	Working	Sampling Done	—

  
Deputy Chief Scientific Officer  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



**TAMILNADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

**AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis**

Report No. 61 / NLS/2024-25

Date: 02.01.2025

		Date: 02.01.2025	
1.	Name of the Industry	M/s. Ennore Coal Terminal Pvt Ltd.,	
2.	Address of the Industry	143, Puzuthivakkam Village, Chennai – 600 120.	
3.	Date of Survey	20.12.2024	
Category	RL	Land use Classification	Industrial
Type of Survey	Ambient/Source	Time of Survey	Day
Meteorological conditions		Calm/Windy/Rainy	Windy

**Logging Parameters**

Logging Parameters				
Instrument Used	CESVA Model SC310		Serial No	T243103
Logging Interval	10 Minutes each point		Measuring Range	20-110 dB(A)
Weighting	"A"	Peak Weighting	"C"	Time Weighting
				FAST
Sound Incidence	RANDOM		Time in hrs	14.00 – 15.30

**Report of Noise Level Monitoring**

SL No	Location	Duration (min)	Distance (m)	Direction	Sound Level -dB(A)		
					Leq	Min	Max
1	Near BTLS	10	350	NE	61.4	55.2	68.3
2	Near Wagon Gate	10	350	SE	68.7	64.3	80.1
3	Near Sub Station	10	250	SW	69.4	56.8	82.1
4	Near Admin	10	250	W	60.8	56.1	69.8
5	Near North Wind Shield	10	350	NW	55.4	50.9	66.1
6	Near Port Gate **	10	250	E	59.6	55.8	70.3
7	Near Port Office **	10	150	ENE	57.8	52.7	68.0
8	Near Rig Point **	10	50	E	64.2	58.9	73.4

\*\* - The Direction & Distance are from the centre of coal unloading point.

Note: Leq value is the average energy for the measured period.

  
 Deputy Chief Scientific Officer  
 District Environmental Laboratory  
 Tamil Nadu Pollution Control Board  
 Manali



**TAMILNADU POLLUTION CONTROL BOARD**  
District Environmental Laboratory, Manali

**INFERENCE REPORT ON A.A.Q.S./ S.M.**

1. Name of Industry : **M/s. Ennore Coal Terminal Pvt Ltd.,**  
143, Puzuthivakkam Village, Chennai – 600 120.
2. Pollution Category : **Red Large**
3. Date of A.A.Q. Survey : **20.12.2024**
4. Predominant Wind Direction : **NNW - SSE**
5. Weather condition : **Partially Cloudy**

**STATUS OF POLLUTANTS LEVEL**

**I. AMBIENT AIR QUALITY:-**

1. Total No. of A.A.Q. stations monitored : **6**
2. No. of A.A.Q. stations in which Pollutants Level exceeded the Boards standards : **Nil**

Maximum and Minimum values of Pollutants Level observed:

Sl. No	POLLUTANT	Values in microgram/m <sup>3</sup>		BOARD's STANDARD (As per consent order)
		Maximum	Minimum	
1.	PM <sub>10</sub>	88	72	100
2.	PM <sub>2.5</sub>	40	28	60
	<u>GASEOUS POLLUTANTS:-</u>			
	(i) SO <sub>2</sub>	15	8	80
	(ii) NO <sub>2</sub>	24	13	80

**II. STACK MONITORING:-**

1. Total No. of Stacks Monitored : **2**
2. No. of Stacks in which Pollutants level Exceeded the Boards standards : **Nil**

  
**Deputy Chief Scientific Officer**  
District Environmental Laboratory  
Tamil Nadu Pollution Control Board  
Manali



MU. ENNORE COAL TERMINAL PUT LTD

## TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Report of Analysis

ROA No: 2481 - 2482/2024-2025

Dated : 05.02.2025

1. Nature and No. of Sample(s) : Two Number of Samples  
2. Date of Collection : 25.01.2025  
3. Code Number(s) and Point of Collection : DEEGMP 2400973 - ETP Outlet -Treated  
: DEEGMP 2400974 - STP Outlet -Treated

Sl.No	Parameters	DEE Code	DEEGMP 2400973	DEEGMP 2400974
		LAB Code	2481	2482
		Unit	1	2
1	pH		6.23	6.21
2	Total Suspended Solids	mg/l	12	18
3	Total Dissolved Solids	mg/l	356	-
4	Chlorides	mg/l	125	-
5	Sulphates	mg/l	36	-
6	B O D at 27°C for 3 Days	mg/l	3	5
7	C O D	mg/l	32	48
8	Phenolic Compounds	mg/l	<0.1	-
9	Zinc	mg/l	<0.01	-
10	Copper	mg/l	<0.033	-
11	Cadmium	mg/l	<0.013	-
12	Lead	mg/l	<0.07	-
13	Nickel	mg/l	<0.05	-
14	Total Chromium	mg/l	<0.05	-
15	Hexavalent Chromium	mg/l	<0.05	-
16	Total Nitrogen (NO <sub>3</sub> +NO <sub>2</sub> )	mg/l	-	5.24
17	Ammoniacal Nitrogen	mg/l	-	2.1
18	Fecal Coliform	MPN/ 100ml	-	FNA

'FNA' - Facility not Available; '-' Not Analyzed

Sample collection charges Rs.1550 /-

(Rupees One Thousand Five Hundred and Fifty Only)

Analytical charges Rs.15480 /-

( Rupees Fifteen Thousand Four Hundred and Eighty Only )

Deputy Chief Scientific Officer  
DEL, Ambattur.

FORM -V  
(See rule 14 of Environment (Protection) Rules, 1986)

Environmental Statement for the financial year ending with 31<sup>st</sup> March 2025

**PART -A**

i) Name and Address of the owner/occupier of the Industry operation or process	:	Mr. Abhishek Agrawal Deputy General Manager, S.F. 143, Puzhithivakkam Village, Near NCTPS Quarters, Vallur - Post, Chennai -600 120
ii) Industry Category		Primary : Red Secondary : 1065-Ports and Harbour, Jetties and Dredging Operations.
iii) Year of Establishment		2011
iv) Date of the last environmental statement submitted		

**PART-B**

Water and Raw Material Consumption:

i) Water consumption in m3/d

Process	:	125(Re-used - Zero Discharge)
Cooling	:	-
Domestic	:	8

Name of Products	Process water consumption per unit of products (KL/MT)	
	During the previous Year 2023-24	During the current Year 2024-25
1. Coal (Handling Only) (Unloading, transfer, storage and loading of Coal)	0.512	0.517

ii. Raw Material consumption

Name of Materials*	Name of the Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial Year
N/A	N/A	N/A	N/A
The unit does not undergo any manufacturing process. The water consumed is mainly for Firefighting, greenbelt development, domestic and maintenance, etc.,			

### PART-C

#### Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	ZERO DISCHARGE	ZERO DISCHARGE	ZERO DISCHARGE
(b) Air	1) DG 500 KVA – 2 Nos. 2) DG 400 KVA – 2 Nos. 3) DG 200 KVA – 1 No.  Used for Lighting	Report Attached	-

### PART –D

#### HAZARDOUS WASTES

(as specified under Hazardous Wastes (Management & Handling Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process	7900	5546
2. From Pollution Control Facilities	N/A	N/A

### PART-E

#### SOLID WASTES

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	N/A	N/A
b. From Pollution Control Facilities	N/A	N/A
c. Quantity recycled or re-utilized within the unit.	N/A	N/A

### PART –F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

### PART – G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

- All the domestic wastewater being generated at coal stack yard is treated at existing sewage treatment plant and the treated water is being re-used for gardening/horticulture purpose.
- Sewage Treatment Plant (STP) is in continuous operation and the treated effluent water quality is meeting the TNPCB norms.
- Regular Environmental monitoring is being carried out through NABL accredited laboratory. All the monitored environmental parameters are well within the prescribed norms & the details of monitored data is being submitted regularly to TNPCB.
- The unit is continuously developing and maintaining Greenbelt within the coal stack yard.

#### **PART-H**

Additional measures/investment proposal for environmental protection including abatement of pollution.

Regular Expenditure (Cost in INR lakhs /year)		
Sl. No.	Description	Cost
1	AAQMS & Environmental Monitoring of MoEF recognized third party	8.18
2	Green Belt Horticulture development (Water)	139.29
3	Other Environmental expenses	19.94

#### **PART – I**

##### **MISCELLANEOUS:**

Any other particulars in respect of environmental protection and abatement of pollution.