

## COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE

Letter No. SEIAA-TN/F.NO.7726/EC/8(a)/741/2020 dated:23.01.2021

S. No	Conditions	Compliance
<b>Part -A – Common conditions applicable for pre-construction, construction and operational Phases:</b>		
1.	Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if prepared, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	<b>It is Noted.</b> We assure no appeal has been made against this Environmental Clearance so far.
2.	The construction of STP, Solid waste Management facility, E-Waste management facility, DG Sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.	<b>Being Complied.</b> The construction of STP, Solid waste management facility, DG sets etc., will be made in the earmarked area only.
3.	The Environmental safeguards contained in the application of the proponent/ mentioned during the presentation before the state level Environment Impact Assessment Authority /State Level Expert Appraisal Committee should be implemented in the letter and spirit.	<b>Being Complied.</b> The project site is currently in construction phase. The Environmental safeguards being followed & implemented.
4.	All other statutory clearances such as the approvals for storage of diesel from chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild life (Protection)Act, 1972, State/Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained project proponent from the concerned competent authorities.	<b>Complied.</b> Storage of diesel is quite low (that is below 1000 liters) and is purchased by the contractor on daily basis. Hence permission from Chief controller of Explosives is not applicable. Fire License obtained from Fire and Rescue Services Department enclosed as <b>Annexure - 1</b> . No Extraction of ground water in the project site, water supply met through tankers. Approval from CMWSSB for water supply will be obtained before obtaining Consent to Operate from TNPCB.
5.	The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearances as the case may be.	<b>Noted &amp; Assured to Comply.</b>
6.	A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.	<b>Noted &amp; being complied.</b> Record for Compliance of the Environmental Clearance conditions being maintained for the project.
7.	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,	<b>Complied.</b> The compliance report for environmental clearance conditions submitted to MoEF / TNPCB. The acknowledgement for submitting the EC Condition through PARIVESH Portal is attached as <b>Annexure – 2</b> .

	as amended subsequently, shall also be put on the website of the company. The status of compliance of Environmental Clearance conditions and shall also be sent into the Regional office of the ministry of Environment and Forests, Chennai by e-mail.	
8.	The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by Furnishing the requisite data/ information/ monitoring reports.	<b>It is Noted.</b> We assure to extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
9.	Consent for Establishment shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.	<b>Complied.</b> Consent for Establishment (CTE) was obtained from TNPCB Vide Proceeding No. T2/TNPCB/F.2749CHN/RL/CHN/A&W/2021 Dated: 22.03.2021. The CTE copy enclosed as <b>Annexure – 3.</b>
10.	In the case of any changes(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	<b>Noted &amp; Complied.</b> We have planned to Expand the Environmental Clearance by increasing built up area from 38,053.98 Sq.m to 44,426.53 Sq.m. In our expansion proposal falls under the Schedule 8(a) & Category B2 as per EIA notification 2006. We have submitted application to SEIAA for Expansion Activities and Obtained Acknowledgment from the SEIAA.
11.	The Conditions will be enforced inter-alia, 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, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other courts of law, including the Hon'ble National Green Tribunal relating to the subject matter.	<b>Complied.</b> Consent for Establishment (CTE) was obtained from TNPCB Vide Proceeding No. T2/TNPCB/F.2749CHN/RL/CHN/A&W/2021 Dated: 22.03.2021.
12.	The Environmental Clearance shall not be cited relaxing the other applicable rules to this project.	<b>It is Noted &amp; Adhered.</b>
13.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the	<b>Assured to Comply.</b> We assure to comply with the conditions mentioned above.

	provisions of the Environment (Protection) Act, 1986.	
14.	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, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely:PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.	<b>Complied.</b> The compliance report for EC conditions, Monitoring Report submitted regularly to the Regional Office of MoEF, SEIAA & TNPCB, Chennai and it has been updated in the web site. The details enclosed as <b>Annexure – 4</b> .
15.	The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the Knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the Environmental Clearance.	<b>Assured to comply.</b> It is Noted and assured to abide by these conditions.
16.	The Environmental Clearance does not imply the other statutory/administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.	<b>It is Noted &amp; Adhered.</b>
17.	The SEIAA, TN may alter /modify the above conditions or stipulate any further condition in the interest of Environment protection, even during the subsequent period.	<b>It is Noted &amp; Adhered.</b>
18.	The Environmental clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.	<b>It is Noted &amp; Adhered.</b>
19.	Where the trees need to be cut, compensation plantation in the ratio 1:10 (i.e., Planting of 10 Trees for every one treat that is cut) should be done with the obligation to continue maintenance.	<b>It is Noted.</b> The activity does not require tree cutting.
20.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior Executive who will report directly to the Head of the organization and the shortfall shall be strictly reviewed and addressed.	<b>Being Complied.</b> Separate environmental management cell formed. Site Maintenance Engineer will monitor environment management activities and report to the project manager of the site.

21.	The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	<b>Noted &amp; Being Complied.</b> EMP cost deposited in the nationalized bank, Head wise expenses statement for EMP being maintained.
22.	The project Proponent has to provide 96 Nos of percolation pits & Rain water harvesting collection sump with capacity of 46 cu.m. to recover and reuse the rain water during normal rains as reported.	<b>Assured to Comply.</b> The project site is currently in construction phase. The Adequate number of Rain water harvesting pits and Rain water collection Sump will be implemented within the site.
23.	The project activity should not cause any disturbance & deterioration of the local bio diversity.	<b>It is Noted.</b> The carried-out project activities will not affect any local biodiversity.
24.	The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.	<b>It is Noted.</b> No disposal of Untreated / treated waste water, dumping of wastes to the surrounding water bodies from the project site. The Project activity will not impact any surrounding water bodies. Guindy National Park Forest is located 3.5 kms from the project site. Hence no impact on water bodies and Forest anticipated due to the project activity.
25.	All the assessed flora & fauna should be conserved and protected.	<b>It is Noted.</b> There is no rare, endangered, threatened or invasive species (Flora & Fauna) observed in the study area. Existing flora in the greenbelt within the site protected and maintained.
26.	The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and Forests (Ec.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.	<b>Assured to Comply.</b> Periodical awareness provided for construction employees for ban on Single Use plastics. Ban on use of one-time plastic display board will be erected during operation of the project within the site.
27.	Necessary Permission shall be obtained from the Competent authority for the drawl /outsourcing of fresh water before obtaining consent from TNPCB.	<b>Assured to Comply.</b> Approval for supply of Fresh water will be obtained from CMWSSB before obtaining Consent to Operate. The copy of the letter submission for supply with acknowledgement enclosed as <b>Annexure – 5.</b>
28.	The proponent shall appoint an Environmental Engineer with necessary qualification for the operation and maintenance of STP (Sewage Treatment Plant).	<b>Assured to Comply.</b> STP operation & maintenance will be monitored by qualified Engineer.
29.	The proponent shall provide the dispenser for the Disposal of sanitary Napkins.	<b>Assured to comply.</b> Dispenser for Sanitary napkins will be installed during operation phase of the project. Disposal of Sanitary waste will be done as per Solid Waste Management Rules 2016.
30.	All the mitigation measures committed by the proponent for the flood management. Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.	<b>Assured to comply.</b> All the mitigation measures for flood management, Solid waste disposal, Sewage treatment & disposal etc. will be followed & adhered.

31.	No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.	<b>It is Noted &amp; Agreed.</b> No waste will be disposed in any watercourse including drains, canals and the surrounding environment.
32.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.	<b>Assured to comply.</b> In entry and exit points security cabin with adequate sign boards will be placed within the site. All parking is internalized and no public space is utilized.
33.	The safety measures proposed in the report should be strictly followed.	<b>Assure to comply.</b> Site safety details displayed at locations, persons entry to the site ensured for adequate PPE and follow safety instructions. Periodical Safety meetings conducted to ensure safety at site. The details enclosed as <b>Annexure – 6.</b>
<b>Part -B- Specific Conditions -Pre-Construction phase:</b>		
1.	The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the state Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.	<b>Complied.</b> Clipping of newspaper advertisement is attached as <b>Annexure – 7.</b>
2.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	<b>Noted &amp; Complied.</b> We have planned to Expand the Environmental Clearance by increasing built up area from 38,053.98 Sq.m to 44,426.53 Sq.m. In our expansion proposal falls under the Schedule 8(a) & Category B2 as per EIA notification 2006. We have submitted application to SEIAA for Expansion Activities and Obtained Acknowledgment from the SEIAA.
3.	A copy of the Clearance letter shall be sent by the proponent to the local Body. The Clearance letter shall also be put on the Website of the proponent.	<b>Complied.</b> A copy of the clearance letter sent to the local body and displayed on the website. <b>Annexure – 8.</b>
4.	The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of firefighting equipments, etc. as per National Building code including protection measures from lighting etc. Before commencement of the work.	<b>Complied.</b> We have obtained NOC for firefighting to implementation in the site as per National Building code including protection measures. Copy of the same enclosed as <b>Annexure – 1.</b>
5.	All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have	<b>Assured to Comply.</b> All sanitary and hygienic measures established in place and the same will be maintained throughout the construction phase.

	to be maintained throughout the construction Phase.	
6.	Design of Building should be in conformity with the Seismic Zone Classifications.	<b>Being Complied.</b> Buildings designed and constructed in conformity with the Seismic Zone-III, according to the Indian Standard Seismic Zoning Map Classifications.
7.	The construction of the structures should be undertaken as per the plans approved by the concerned local authorities /local administration.	<b>Being Complied.</b> The Construction of the structures have been undertaken as per the earlier approval. <b>Annexure – 9.</b>
8.	No construction activity of any kind shall be taken up in the OSR area.	<b>It is Noted.</b> The site does not include an OSR area. Therefore, a paid OSR option will be implemented for the proposed project.
9.	Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.	<b>Assured to Comply.</b> The quality of treated wastewater will be ensured as per the prescribed CPCB norms and the same will be utilized for Toilet flushing and Greenbelt development & HVAC. No disposal to OSR area.
10.	The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.	<b>Not applicable.</b> As per Coastal Regulation Zone Notification, 2011, this project is located outside the CRZ area.
11.	The project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.	<b>Assured to Comply.</b> Parking facilities and Visitors parking facilities planned as per the CMDA norms and same will be implemented during operation phase.
12.	The Project proponent shall ensure the entry of basement shall be above maximum flood level.	<b>Complied.</b> The entry level of the basement in the project site basement entry level maintained 0.90 m from ground level which is protect the site safe against any inundation in the near future. Flood Inundation Report Obtained from TN-PWD. <b>Annexure – 10.</b>
13.	The proponent shall prepare completion plans showing separate pipelines marked with different colors with the following details. i. Location of STP, compost system, underground sewer line. ii. Pipe line conveying the treated effluent for green belt development. iii. Pipe line conveying the treated effluent for Toilet Flushing. iv. Water supply pipeline. v. Gas supply pipe line, if proposed. vi. Telephone cable. vii. Power Cable viii. Strom water drains, and ix. Rain water harvesting system, etc and it shall be made available to the owners.	<b>Assured to Comply.</b> The plan showing the location of the pipelines of STP, water supply line, telephone cable, power cable, storm water drain, rain water harvesting system maintained by the project team. The same will be handed over to Project proponent on completion of construction activities by the project team.

14.	A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.	<b>Complied.</b> First aid facilities will be available on-site throughout the entire construction phase. During the operational phase, similar facilities will be provided in the designated area. <b>Annexure – 11.</b>
15.	The present land use surrounding the project site shall not be disturbed at any point of time.	<b>It is Noted &amp; Agreed.</b> The present land use, surrounding the project site will not be disturbed at any point of time.
16.	The Green Belt area shall be planted with indigenous native trees.	<b>Assured to Comply.</b> The project under construction stage. Existing trees maintained; The green belt will be further developed with indigenous native trees on completion of construction activities. Details enclosed as <b>Annexure – 12.</b>
17.	Natural Vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.	<b>It is Noted &amp; Agreed.</b> No felling of trees in the project site.
18.	During the Construction and operation phase, there should be no disturbance to the aquatic eco system within and outside the area.	<b>It is Noted &amp; Adhered.</b> No disturbance to the aquatic eco-system within and outside the area during the construction and operation phase.
19.	The provisions of Forest Conservation Act 1980, Wild life Protection Act 1972 & Bio Diversity Act 2002 should not be violated.	<b>It is Noted &amp; Adhered.</b>
20.	There should be Firefighting Plan and all required safety plan.	<b>Assured to comply.</b> During the construction phase of the project, adequate fire safety equipment has been installed. For the operational phase, fire safety measures are will be adopted. Additionally, periodical mock drills will be conducted every six months to ensure preparedness. The site layout has been displayed at designated locations to ensure visibility and awareness.
21.	Regular fire drills should be held to create awareness among owners/residents.	<b>Assured to comply.</b> Planned for periodical mock drill once in six months for staffs.

**Part C – Specific Conditions – Construction Phase:**

	<b>Construction Schedule:</b>	<b>Being Complied.</b>
1.	i)The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN	The project under construction stage. The date of commissioning of the project supported with necessary bar charts submitted to SEIAA-TN. Acknowledgment copy enclosed <b>Annexure – 4.</b>
	<b>Labour Welfare:</b>	<b>Being Complied.</b>
2.	i) All the laborers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.	All the Laboure’s being screened for health and adequately treated before and during their employment. Periodical Health screening done and the photos of the same enclosed as <b>Annexure – 6.</b>
	ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on	<b>Being Complied.</b> The labours are provided adequate training and information on safety and health aspects and necessary protective respiratory devices.

	<p>safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.</p>	
	<p>iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The Workers shall be provided with personnel protective measures such as masks, gloves, boots etc.</p>	<p><b>Being Complied.</b> Periodical medical examination of the workers being carried out and its records maintained. Workers are provided with personnel protective measures such as masks, gloves, boots etc. <b>Annexure – 6.</b></p>
3.	<p><b>Water Supply:</b> i) The entire water requirement during construction phase may be met from the source with approval of the PWD Department of water resources/ may be out sourced.</p>	<p><b>Being Complied.</b> During the construction phase, water will be sourced from the local body through private tankers.</p>
	<p>ii) Provision shall be made for the housing labour within the site with all necessary infrastructures 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.</p>	<p><b>Complied.</b> Labour rest area are provided for laborers, temporary structures will be removed after completion of the project.</p>
	<p>iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.</p>	<p><b>Being Complied.</b> Adequate drinking water and sanitary facilities being provided for construction workers at the site. Waste water disposed through dispersion trench and septic tank. The MSW generated disposed through Local Body. <b>Annexure – 6.</b></p>
	<p>iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.</p>	<p><b>Being Complied.</b> Premixed concrete and curing agents is used to minimize the water demand by adopting best practices. Photos of the same enclosed in <b>Annexure – 13.</b></p>
	<p>v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators/pressure reducing devises/sensor-based control.</p>	<p><b>Complied.</b> Low flow type fixtures provided for the showers, toilet flushing and drinking water to conserve water.</p>
4.	<p><b>Solid waste Management:</b> i) In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.</p>	<p><b>Being Complied.</b> During Construction phase the solid waste disposed to the local body. Sewage generated from the project collected in temporary septic tank and disposed to Common Sewage Treatment Plant.</p>



	ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM Rules 2016.	<b>Being Complied.</b> The Household hazardous waste generated being collected and disposed periodically as per Solid Waste Management Rules 2016.
	iii) Domestic Solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.	<b>Being Complied.</b> The Domestic solid waste being collected in separate bins. Recyclable wastes disposed to authorized recyclers, Biodegradable and inert waste collected separately and disposed to local body as per the solid waste management rules 2016.
	iv) No waste of any type to be disposed in any watercourse including drains, canals and the surrounding Environment.	<b>It is Noted.</b> No waste will be disposed in any watercourse including drains, canals and the surrounding environment.
	v) E-Waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.	<b>Assured to comply.</b> The E-waste will be collected and disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2022 and subsequent amendment.
5.	<b>Top soil Management:</b> i) All the top soil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	<b>Being Complied.</b> The excavated top soil stored earmarked area with covered tarpaulin and will be utilized for greenbelt development within the project site.
6.	<b>Construction Debris Disposal:</b> i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.	<b>Complied.</b> The construction debris used for levelling the site for Road formation.
	ii) Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/lake/stream etc.	<b>Complied.</b> The construction waste properly disposed as per Construction & Demolition Waste Management Rules, 2016.
7.	<b>Diesel Generator Sets:</b> i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during Construction phase. The air and noise emission shall conform to the standards prescribed in the rules under the Environment (Protection) Act, 1986 and the Rules framed thereon.	<b>Complied.</b> Low Sulphur Diesel is used for operating diesel generator sets.

	ii) The diesel required for operating stand by DG sets shall be stored in barrels fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.	<b>Complied.</b> Diesel required for operating standby DG sets is stored according to the safety norms. Storage of diesel is quite low (that is below 1000 litres) and is purchased by the contractor on daily basis during construction phase, hence permission from Chief controller of Explosives is not applicable.
	iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc	<b>Complied.</b> Acoustic enclosures installed at noise generating equipment.
8.	<b>Air &amp; Noise Pollution Control:</b> i) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.	<b>Complied.</b> Vehicles in good condition with PUC certificate used for transportation of construction materials and the vehicles are in conformity to air and noise emission standards, prescribed by the TNPCB/CPCB. Vehicles operated during non-peak hours. PUC Certificate enclosed as <b>Annexure – 13.</b>
	ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, Both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.	<b>Being Complied.</b> Ambient air and noise levels Conformed to Commercial standards prescribed by the TNPCB, during day and night hours. Incremental pollution load monitored for air and noise quality during the construction phase. Pollution level found within the prescribed by the TNPCB/CPCB.
	iii) Traffic congestion near the entry and exist points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per CMDA norms. The traffic department shall be consulted and any cost-effective traffic regulative facility shall be met before commissioning.	<b>Assured to Comply.</b> Entry and exit points adequately manned with security personnel. Parking plan prepared as per CMDA norms. Speed limits will be implemented and controlled within the site by speed breakers, parking provisions are fully internationalized through surface parking. In entry and exit points security cabin with adequate sign boards will be placed within the site. All parking will be internalized and no public space will be utilized.
	iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	<b>Assured to Comply.</b> The building construction being carried out as per earlier approval. Adequate distance maintains between floors to ensure free movement of fresh air and passage of natural light, air and ventilation.
	v) The project proponent should ensure that adequate Air Pollution Control measures shall be provided from buses and other vehicles, which will be entering the bus terminal. Further, water sprinkling system shall be provided and same shall be used at regular interval to control the dust emission within the project site.	<b>Being Complied.</b> Separate parking location provided for vehicles entering the site during construction stage. Periodical water sprinkling being be carried out at regular interval to control the dust emission within the project site during construction stage.
9.	<b>Building material:</b> i) Fly-ash blocks should be used as building material in the construction as per the	<b>Being Complied.</b> AAC blocks / Fly Ash bricks used as a building material in the construction.

	provision of Fly ash notification of September, 1999 and amended as on 27th August, 2003 and Notification No.S.O.2807 (E) dated: 03.11.2009.	
	ii) Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.	<b>Being Complied.</b> Ready mix concrete being used in building construction for concrete bed & ramp to ascertain quality.
	iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.	<b>Assured to Comply.</b> High quality double glass will be used to reduce the electricity consumption and load on air conditioning.
10.	<b>Storm water Drainage:</b> i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.	<b>Assured to Comply.</b> The project under construction stage. As per Storm water manual guideline, implementation storm water management system will be adhered.
	ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.	<b>Complied.</b> Storm water management plan obtained from Public Works Department as per the NOC. Ref – Lr.No.DB/T5(3)/F–Mylapore/2022 dt 20.11.2020 to ensure storm water management The existing ground level of the proposed site should be raised to a level of (+) 0.59 m to 0.86 m with the process of filling and compaction should be done in layer of not more than 0.30 m depth with hard soil and proper compaction to achieve required degree of compaction and existing land should be raised to a level of (+) 3.620 m. Based on the conditions for storm water management / rain water harvesting structures the same has been incorporated in the architectural design layout provided in the <b>Annexure – 10.</b>
11.	<b>Energy Conservation Measures:</b> i) Roof should meet prescriptive requirement a per Energy Conservation Building code by using appropriate thermal insulation material, to fulfill the requirement.	<b>Assured to Comply.</b> The project under construction stage. Roof will be implemented as per the Energy Conservation Building Code by using appropriate thermal insulation material, to fulfil the requirement.
	ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air-conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.	<b>Assured to Comply.</b> The Opaque wall will be implemented as per the Energy Conservation Building Code.
	iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted solar lights shall be provided for illumination of common areas.	<b>Assured to Comply.</b> Norms of Energy Conservation Building Code (ECBC) and National Building Code, 2016 as energy conservation will be adopted.

	iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided	<b>Assure to Comply.</b> Solar Power will be used for lighting load in the building areas. Solar Power Street lights will be installed. Solar energy will be utilized such as Solar lights, CFL/LED lamps in common areas, lighting, street lighting.
	v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three months' time.	<b>Assure to Comply.</b> Energy conservation measures will be implemented as per energy conservation norms as prescribed by the Bureau of energy Efficiency. Details of Building Materials & Technology R & U factors submitted to SEIAA.
	vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.	<b>Assure to Comply.</b> Energy conservation measures like LED Lights will be used for lighting.
12.	<b>Fire safety:</b> i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.	<b>Assure to Comply.</b> Adequate fire protection equipments and rescue arrangements will be made as per the norms. Fire License obtained from Fire and Rescue Services Department enclosed as <b>Annexure- 1.</b>
	ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue operations in the event of emergency shall be made.	<b>Assure to Comply.</b> Proper and free approach road for firefighting vehicles provided to ensure free flow and movement of vehicles in roads and turning radius maintained as per IRC guidelines.
13.	<b>Green Belt Development:</b> i) The project proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest Department well before the project is completed.	<b>Assure to Comply.</b>
	ii) The proponent has to earmark the green belt area with dimension and GPS coordinates for the green belt area all along the boundary of the project site with at least 3-meter-wide and the same shall be included in the layout plan to be submitted for CMDA/DTCP approval.	<b>Assure to Comply.</b> Green belt area covering 1284.35 Sq.m (17.92%) with GPS coordinates marked.
	iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the green belt shall not be alter at any point of time for any other purpose.	<b>Assure to Comply.</b> We assure that greenbelt area of 1284.35 Sq.m (17.92%) will not be alter at any point of time for any other purpose.
14.	<b>Sewage Treatment Plant:</b> i) The sewage Treatment Plant (STP) installed should be certified by an independent expert/reputed Academic	<b>Complied.</b> Sewage Treatment Plant adequacy will be certified by an independent expert before commissioning of operations. The copy of the same will be submitted

	institution for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.	to SEIAA-TN. Discharge of treated sewage is conforming to the norms & standards prescribed by the Tamil Nadu Pollution Control Board. <b>Annexure - 14.</b>
	ii) The proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN	<b>Assure to Comply.</b> STP will be installed as committed. There is no alteration required.
	iii) The project proponent shall operate and maintain the Sewage treatment plant and Grey water treatment plant effectively to meet out the standards prescribed by the CPCB.	<b>Assured to comply.</b> Sewage Treatment Plant will be operated and maintained as effectively to met the standards prescribed by the CPCB. (Greywater Treatment Plant changed as single unit of Sewage Treatment Plant in proposed expansion project).
	iv) The project proponent shall continuously operate and maintain the Sewage treatment plant and Greywater treatment plant to achieve the standards prescribed by the CPCB.	<b>Assured to comply.</b> Sewage Treatment plant will be operated and maintained continuously to achieve the standards prescribed by the CPCB.
	v) The project proponent has to ensure the complete recycling of treated Sewage & Greywater achieving the standards prescribed by the CPCB.	<b>Assured to comply.</b> The Treated Sewage will be maintained as per standards prescribed by the CPCB and reused in the facility. Periodical monitoring of treated sewage will be ensured.
	vi) The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.	<b>Assured to comply.</b> Stand by DG set provided for continues of STP operation in case of failure.
15.	<b>Rain Water Harvesting:</b> i) The proponent/ Owners of the flats shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested shall be reused.	<b>Assured to comply.</b> Roof top run off will be collected in the Rainwater collection and storage sump will be installed to ensure one day fresh water requirements.
	ii) Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.,	<b>Assured to Comply.</b> Rain water harvesting for surface run-off to ensure as per the site contour flow pattern with pre-treatment screening to remove suspended matter, oil and grease, etc. The rain water flowing through the open land, paved area and green belt area will be used for recharging to ground water.
	iii) The project proponent has to provide 96 Nos of percolation pits with rain water Collection sump capacity of 46 cu.m. to recover and reuse the rain water during normal rain as reported.	<b>Assured to Comply.</b> Adequate number of rain water harvesting pits will be planned to recharge the ground water.
	iv) The project activity should not cause any disturbance & deterioration of the Local bio diversity.	<b>It is Noted &amp; Agreed.</b>

		The proposed activity will not cause any disturbance & deterioration of the local bio diversity.
16.	<b>Building Safety:</b> Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.	<b>Assured to Comply.</b> Adequate quantity of Lightning arrester will be installed at top of the building based on the design requirements.
<b>Part – D – Specific Conditions – Operational Phase/Post Constructional phase/Entire life of the Project:</b>		
1.	There should be Firefighting plan and all required safety plan.	<b>Complied.</b> We have provided Firefighting plan and all required safety plan measures as per NBC 2016. Fire NOC obtained, its enclosed as <b>Annexure – 1.</b>
2.	Regular fire drills should be held to create awareness among owners/residents.	<b>Assured to Comply.</b> Periodical Mock drill will be planned once in six months for occupants.
3.	Hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM Rules 2016.	<b>Assured to Comply.</b> Hazardous wastes will be segregated at source periodically and stored in the designated areas with adequate protection. These wastes will be disposed as per the SWM Rules 2016 and Hazardous and Other Waste Management Rules 2016 and its amendments.
4.	The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.	<b>Assured to Comply.</b> The buildings being developed with adequate space which will provide adequate green views and clean air space. The proposed site will not affect any surrounding Environment.
5.	Solar energy saving shall be increased to at least 10% of total energy utilization.	<b>Assured to Comply.</b> Solar Power will be used for lighting load and water heating system. Solar Power Street lights will be installed. Solar energy will be utilized such as Solar lights, CFL/LED lamps in common areas, lighting, street lighting.
6.	The project proponent has to spend the CER as committed in the affidavit. The above activity shall be carried out before obtaining CTO from TNPCB.	<b>Assured to Comply.</b> CER activity will be carried out as per the commitment provided in the affidavit. Details will be submitted before obtaining final CTO from TNPCB.
7.	The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	<b>Assured to Comply.</b> The EMP cost deposit in nationalized bank. Head wise expenses statement for EMP will be submitted to TNPCB and copy will be submitted to SEIAA.
8.	The EMP cost shall be printed in the Brochure/ Pamphlet for the preparation of the sale of the property and should also mention the component involved.	<b>Assured to Comply.</b> The EMP cost with the details of the components printed using pamphlets and provided to the occupier along with the Lease/Rental Agreement.
9.	The project proponent shall get due permission from the wetland Authority before the Commencement of the work, if applicable.	<b>Not Applicable.</b> No Wet Land in Project Area as per Tamil Nadu Combined Development & Building Rules 2019 (TNCDBR). Hence not applicable.

10.	The project proponent should discuss with the wet land Authority, Tamil Nadu Forest Department, PWD and support lake restoration cum improvement, awareness and conservation programs.	<b>Assured to Comply as per the condition.</b>
11.	The Project activities should in no way disturb the manmade structures.	<b>It is Noted &amp; Agreed to Comply.</b> Project activities will not disturb any manmade structures.
12.	The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.	<b>It is Noted &amp; Assured to comply.</b> Afforestation restoration programme will be implemented with native species.
13.	“Consent to Operate” should be obtained from the Tamil Nadu Pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.	<b>Agreed to Comply.</b>
14.	Raw water quality to be checked for portability and if necessary RO plant shall be Provided.	<b>Assured to Comply.</b> Raw water will be sourced through CMWSSB which is portable. RO system will be installed by occupants for drinking use.
15.	The project should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the proponent himself shall maintain all above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.	<b>Assured to Comply.</b> The proposed project involves commercial activities. For the entire period of the project, we assure to maintain common facilities including greening, rain water harvesting, sewage treatment, solid waste disposal and environmental monitoring etc., as committed.
16.	The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.	<b>Not Applicable.</b> No ground water source within the site.
17.	Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be	<b>Assured to comply.</b> Treated effluent emanating from STP will be recycled / reused to the maximum extent possible. The treated sewage will conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures will be

	made to mitigate the odour and mosquito problem from STP.	made to mitigate the odours and mosquito problem from STP.
18.	The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.	<b>Assured to comply.</b> We assure that the STP will be operated continuously by providing stand by DG Set in case of power failure.
19.	It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc.	<b>Assured to comply.</b> We assure that the treated sewage water used for Toilet flushing, greenbelt and HVAC which will be well within the limits prescribed by TNPCB. Periodic monitoring will be carried out as per the EMP. Hence the treated sewage water will not pollute soil / ground water/ adjacent canals / lakes and ponds.
20.	Adequate measures should be taken to prevent odours emanating from solid waste processing plant and STP.	<b>Assured to comply.</b> Adequate measures will be taken to prevent odour emanating from solid waste processing plant and STP.
21.	The e-waste generated should be collected and disposed to a nearby authorized e-waste center as per E- waste (Management & Handling), Rules 2016 as amended.	<b>Assured to comply.</b> The E-waste generated will be collected and disposed to a nearby authorized E-waste centre as per - E Waste Management & Handling), Rules 2022 and its amendments.
22.	Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.	<b>Assured to comply.</b> Diesel power generating sets proposed as source of back-up power during operation phase will be enclosed type with adequate stack height as per CPCB guidelines and conform to rules made under the Environment (Protection) Act, 1986.
23.	The noise level shall be maintained as per MOEF/CPCB/TNPCB guidelines/ norms both during day and night time	<b>Assured to comply.</b> The noise level will be maintained as per MoEF/CPCB/TNPCB guidelines/Norms both during day and night time.
24.	Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per Hazardous & other Wastes (Management & Tran boundary Movement) Rules 2016. Spent oil from D.G sets should be disposed of through registered recyclers.	<b>Assured to comply.</b> Spent oil from D.G. sets will be stored in HDPE drums isolated in covered facility and disposed as per the rules through authorized recyclers as per the Hazardous and Other Waste Management Rules 2016.
25.	The proponent is required to provide a house hold hazardous waste/ E- Waste collection and disposal mechanism.	<b>Assured to comply.</b> Hazardous waste will be collected at sources and stored in specified location and it will be disposed to authorized recyclers. E-Waste will be collected periodically and stored in designated areas it will be disposed to authorized E-Waste recyclers.
26.	The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing and should also	<b>Assured to comply.</b> We assure that storm water drain provided at the project site, it will be maintained without choking/stagnation of water. Adequate harvesting



	ensure that the storm water shall be properly disposed of in the natural drainage/ channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.	structures such as Rain water storage sumps, Rain Water recharge pits will be established and maintained.
27.	Used CFLs and TFLs should be properly collected and disposed of/ sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	<b>Assured to Comply.</b> Used CFLs, TFLs and LED Lights will be collected from the building periodically, stored in the designated locations and disposed to authorized E-Waste handlers to avoid mercury contamination.
28.	A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with allotment order/ sale deed.	<b>It is Noted &amp; Assured to Comply.</b> The proposed project involves commercial activities. We assure to provide the copy of the Environmental Clearance (EC) letter to the occupier along with the Lease/Rental Agreement.
29.	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>It is Noted &amp; Assured to Comply.</b> We assure to comply with the conditions mentioned above.
30.	The Environmental Clearance is issued based on the documents furnished by the project proponent. In case any documents found to be incorrect/not in order at a later date the Environmental Clearance issued to the project will be deemed to be revoked/cancelled.	<b>It is Noted &amp; Agreed.</b>



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611824000018755F  
Report No : QEN24040310-01

Page 1 of 1  
Report Date : 20 Apr 2024

Customer Name : M/s. Chettinad Products and Services Pvt Ltd  
 Customer Address : Chettinad Corporate Office Site Rajah Muthiah Chettiar Charitable and Educational Trust, Survey No: 427716, Block No: 93, No. 1, Thandavarayan Street, Opp Iyappan Temple MRC Nagar, Raja Annamalai Puram-Chennai-600028.  
 Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 15 Apr 2024  
 09.00 am to 05.00 pm  
 Sample Description : Ambient Air Quality Monitoring Sample Received on : 16 Apr 2024  
 Reference : Test Request Form Dated 15.04.2024 Test Started on : 16 Apr 2024  
 Sample Drawn By : Laboratory Test Completed on : 20 Apr 2024  
 Sample Location : Near Project Office  
 Sample Procedure : IS 5182  
 Relative Humidity : 52% Ambient Temperature : 35°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH3	IS 5182 (Part 25)	BLQ(LOQ:20.0)	µg/m³	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10)	BLQ(LOQ:1.14)	mg/m³	02 Max
3	Nitrogen dioxide as NO2	IS 5182 (Part 06)	21.6	µg/m³	80 Max
4	Ozone as O3	IS 5182 (Part 09)	BLQ(LOQ:20.0)	µg/m³	180 Max
5	Particulate Matter (PM10)	IS 5182 (Part 23)	63.8	µg/m³	100 Max
6	Particulate Matter (PM2.5)	IS 5182 (Part 24)	26.2	µg/m³	60 Max
7	Sulphur Dioxide as SO2	IS 5182 (Part 02)	11.2	µg/m³	80 Max
<b>Polycyclic Aromatic Hydrocarbons</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GS/SOP/06	BLQ(LOQ:0.05)	ng/m³	01 Max
<b>Trace Metal Elements</b>					
9	Arsenic	Compendium Method IO-3.4	BLQ(LOQ:0.1)	ng/m³	06 Max
10	Lead	Compendium Method IO-3.4	BLQ(LOQ:0.001)	µg/m³	1.0 Max
11	Nickel	Compendium Method IO-3.4	BLQ(LOQ:0.1)	ng/m³	20 Max
<b>Volatile Organic Compounds</b>					
12	Benzene	SMSLA/GM/SOP/31	BLQ(LOQ:1.0)	µg/m³	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: 39/6, Thiruvallur High Road, Puduchatram 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 - TC611824000018756F  
Report No : QEN24040310-02

Page 1 of 1  
Report Date : 20 Apr 2024

Customer Name : M/s. Chettinad Products and Services Pvt Ltd  
 Customer Address : Chettinad Corporate Office Site Rajah Muthiah Chettiar Charitable and Educational Trust, Survey No: 427716, Block No: 93, No. 1, Thandavarayan Street, Opp Iyappan Temple MRC Nagar, Raja Annamalai Puram-Chennai-600028.  
 Sample Name : Ambient Air Quality Monitoring Sampling Date & Time : 15 Apr 2024  
 09.10 am to 05.10 pm  
 Sample Description : Ambient Air Quality Monitoring Sample Received on : 16 Apr 2024  
 Reference : Test Request Form Dated 15.04.2024 Test Started on : 16 Apr 2024  
 Sample Drawn By : Laboratory Test Completed on : 20 Apr 2024  
 Sample Location : Near DG Area  
 Sample Procedure : IS 5182  
 Relative Humidity : 52% Ambient Temperature : 35°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH3	IS 5182 (Part 25)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10)	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	02 Max
3	Nitrogen dioxide as NO2	IS 5182 (Part 06)	19.0	µg/m <sup>3</sup>	80 Max
4	Ozone as O3	IS 5182 (Part 09)	BLQ(LOQ:20.0)	µg/m <sup>3</sup>	180 Max
5	Particulate Matter (PM10)	IS 5182 (Part 23)	58.2	µg/m <sup>3</sup>	100 Max
6	Particulate Matter (PM2.5)	IS 5182 (Part 24)	23.9	µg/m <sup>3</sup>	60 Max
7	Sulphur Dioxide as SO2	IS 5182 (Part 02)	8.9	µg/m <sup>3</sup>	80 Max
<b>Polycyclic Aromatic Hydrocarbons</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GS/SOP/06	BLQ(LOQ:0.05)	ng/m <sup>3</sup>	01 Max
<b>Trace Metal Elements</b>					
9	Arsenic	Compendium Method IO-3.4	BLQ(LOQ:0.1)	ng/m <sup>3</sup>	06 Max
10	Lead	Compendium Method IO-3.4	BLQ(LOQ:0.001)	µg/m <sup>3</sup>	1.0 Max
11	Nickel	Compendium Method IO-3.4	BLQ(LOQ:0.1)	ng/m <sup>3</sup>	20 Max
<b>Volatile Organic Compounds</b>					
12	Benzene	SMSLA/GM/SOP/31	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: 39/6, Thiruvallur High Road, Puduchatram 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 - TC611824000018757F  
Report No : QEN24040310-03

Page 1 of 1  
Report Date : 20 Apr 2024

**Customer Name** : M/s. Chettinad Products and Services Pvt Ltd  
**Customer Address** : Chettinad Corporate Office Site Rajah Muthiah Chettiar Charitable and Educational Trust, Survey No: 427716, Block No: 93, No. 1, Thandavarayan Street, Opp Iyappan Temple MRC Nagar, Raja Annamalai Puram-Chennai-600028.  
**Sample Name** : Ambient Air Quality Monitoring **Sampling Date & Time** : 15 Apr 2024  
 09.20 am to 05.20 pm  
**Sample Description** : Ambient Air Quality Monitoring **Sample Received on** : 16 Apr 2024  
**Reference** : Test Request Form Dated 15.04.2024 **Test Started on** : 16 Apr 2024  
**Sample Drawn By** : Laboratory **Test Completed on** : 20 Apr 2024  
**Sample Location** : Eastern Side  
**Sample Procedure** : IS 5182  
**Relative Humidity** : 52% **Ambient Temperature** : 35°C

### TEST RESULTS

S.NO	Parameter	Test Method	Results	Unit	Limit as per NAAQS Specification
<b>Chemical</b>					
1	Ammonia as NH3	IS 5182 (Part 25)	BLQ(LOQ:20.0)	µg/m³	400 Max
2	Carbon Monoxide as CO (8hrs)	IS 5182 (Part 10)	BLQ(LOQ:1.14)	mg/m³	02 Max
3	Nitrogen dioxide as NO2	IS 5182 (Part 06)	23.4	µg/m³	80 Max
4	Ozone as O3	IS 5182 (Part 09)	BLQ(LOQ:20.0)	µg/m³	180 Max
5	Particulate Matter (PM10)	IS 5182 (Part 23)	62.0	µg/m³	100 Max
6	Particulate Matter (PM2.5)	IS 5182 (Part 24)	25.8	µg/m³	60 Max
7	Sulphur Dioxide as SO2	IS 5182 (Part 02)	12.3	µg/m³	80 Max
<b>Polycyclic Aromatic Hydrocarbons</b>					
8	Benzo(a)Pyrene (Particulate Phase)	SMSLA/GS/SOP/06	BLQ(LOQ:0.05)	ng/m³	01 Max
<b>Trace Metal Elements</b>					
9	Arsenic	Compendium Method IO-3.4	BLQ(LOQ:0.1)	ng/m³	06 Max
10	Lead	Compendium Method IO-3.4	BLQ(LOQ:0.001)	µg/m³	1.0 Max
11	Nickel	Compendium Method IO-3.4	BLQ(LOQ:0.1)	ng/m³	20 Max
<b>Volatile Organic Compounds</b>					
12	Benzene	SMSLA/GM/SOP/31	BLQ(LOQ:1.0)	µg/m³	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: 39/6, Thiruvallur High Road, Puduchatram 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.



TEST REPORT



TC-6118

ULR - TC611824000018758F
Report No : QEN24040310-04

Page 1 of 1
Report Date : 20 Apr 2024

Customer Name : M/s. Chettinad Products and Services Pvt Ltd
Customer Address : Chettinad Corporate Office Site Rajah Muthiah Chettiar Charitable and Educational Trust, Survey No: 427716, Block No: 93, No. 1, Thandavarayan Street, Opp Iyappan Temple MRC Nagar, Raja Annamalai Puram-Chennai-600028.
Sample Description : Stack Emission
Reference : Test Request Form Dated 15.04.2024
Sample Drawn By : Laboratory
Sample Location : 125 KVA DG-1
Sample Procedure : IS 11255 & SMSLA/EN/SOP/017
Diameter of Stack (m) : 0.1 m
Sampling Date : 15 Apr 2024
Sample Received on : 16 Apr 2024
Test Started on : 16 Apr 2024
Test Completed on : 20 Apr 2024
Ambient Temperature : 36°C

TEST RESULTS

Table with 6 columns: S.NO, Parameter, Test Method, Unit, Results, Limit as per CPCB Specification. Rows include Carbon Dioxide as CO2, Carbon Monoxide as CO, Nitrogen Oxides as NOx, Oxygen as O2, Particulate Matter, Stack temperature, Sulphur Dioxide as SO2, Velocity, and Volume of Gas Discharged.

Note : BLQ : Below Limit of Quantification LOQ : Limit of Quantification.

Conclusion : The above tested Sample Conforms to the CPCB Standards for the above tested Parameters.

/\*\*\*\*\*\* End of the Report \*\*\*\*\*/

M.S.
M. Sarathkumar
Authorized Signatory-Chemical



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611824000018759F  
Report No : QEN24040310-05

Page 1 of 1  
Report Date : 20 Apr 2024

Customer Name : M/s. Chettinad Products and Services Pvt Ltd  
 Customer Address : Chettinad Corporate Office Site Rajah Muthiah Chettiar Charitable and Educational Trust, Survey No: 427716, Block No: 93, No. 1, Thandavarayan Street, Opp Iyappan Temple MRC Nagar, Raja Annamalai Puram-Chennai-600028.  
 Sample Name : Ambient Noise Level Monitoring  
 Sample Description : Ambient Noise Level Monitoring Sampling Date : 15 Apr 2024  
 Reference : Test Request Form Dated 15.04.2024 Sample Received on : 16 Apr 2024  
 Sample Drawn By : Laboratory  
 Sample Procedure : IS 9989

### TEST RESULTS

SI. No	Location	Noise Level dB (A)	CPCB Standards (Industrial Area) For Noise in Leq dB (A)
		Day Time	Day Limit
1	Near Project Office	61.8	75 dB (A)
2	Near DG Area	65.5	
3	Eastern Side	64.8	

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: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611824000018760F  
Report No : QEN24040310-06

Page 1 of 2  
Report Date : 20 Apr 2024

**Customer Name** : M/s. Chettinad Products and Services Pvt Ltd  
**Customer Address** : Chettinad Corporate Office Site Rajah Muthiah Chettiar Charitable and Educational Trust, Survey No: 427716, Block No: 93, No. 1, Thandavarayan Street, Opp Iyappan Temple MRC Nagar, Raja Annamalai Puram-Chennai-600028.  
**Sample Name** : Drinking Water **Sample Quantity** : 5Ltr x 1No  
**Sample Description** : Drinking Water **Sampling Date** : 15 Apr 2024  
**Reference** : Test Request Form Dated 15.04.2024 **Sample Received on** : 16 Apr 2024  
**Sample Drawn By** : Laboratory **Test Started on** : 16 Apr 2024  
**Sample Location** : RO Plant **Test Completed on** : 20 Apr 2024  
**Sample Procedure** : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012-Amd:4	
					Acceptable Limit	Permissible Limit in the absence of alternative source
<b>Clause 4, Table 1 Organoleptic And Physical parameters</b>						
1	Colour	IS 3025 (Part 04)	Hazen	Less than 1.0	5.0 Max	15.0 Max
2	Odour	IS 3025 (Part 05)	--	Agreeable	Agreeable	Agreeable
3	pH Value	IS 3025 (Part 11)	--	6.69	6.5 - 8.5	No Relaxation
4	Total Dissolved Solids	IS 3025 (Part 16)	mg/L	202	500.0 Max	2000.0 Max
5	Turbidity	IS 3025 (Part 10)	NTU	Less than 0.1	1.0 Max	5.0 Max
<b>Clause 4, Table 2 General Parameters Concerning Substances Undesirable In Excessive Amounts</b>						
6	Calcium (as Ca)	IS 3025 (Part 40)	mg/L	23	75.0 Max	200.0 Max
7	Chloride (as Cl)	IS 3025 (Part 32)	mg/L	81	250.0 Max	1000.0 Max
8	Free Residual Chlorine	IS 3025 (Part 26)	mg/L	BLQ(LOQ:0.1)	0.2 Min	1.0 Min
9	Iron (as Fe)	IS 3025 (Part 53)	mg/L	BLQ(LOQ:0.05)	1.0 Max	No Relaxation
10	Magnesium (as Mg)	IS 3025 (Part 46)	mg/L	9.6	30.0 Max	100.0 Max
11	Sulphate (as SO4)	IS 3025 (Part 24) Sec 1	mg/L	21	200.0 Max	400.0 Max
12	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)	mg/L	110	200.0 Max	600.0 Max
13	Total Hardness (as CaCO3)	IS 3025 (Part 21)	mg/L	97	200.0 Max	600.0 Max

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC611824000018760F  
Report No : QEN24040310-06

Page 2 of 2  
Report Date: 20 Apr 2024

S.NO	Parameter	Test Method	Unit	Results	Requirements as per IS 10500-2012-Amd:4	
					Acceptable Limit	Permissible Limit in the absence of alternative source
<b>Others</b>						
14	Calcium Hardness (as CaCO3)	IS 3025 (Part 40)	mg/L	59	--	--
15	Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)	mg/L	97	--	--
16	Conductivity @ 25°C	IS 3025 (Part 14)	µS/cm	361	--	--
17	Magnesium Hardness (as CaCO3)	IS 3025 (Part 46)	mg/L	40	--	--
18	Non-Carbonate Hardness (as CaCO3)	IS 3025 (Part 21)	mg/L	BLQ(LOQ:1.0)	--	--
19	Phenolphthalein Alkalinity (as CaCO3)	IS 3025 (Part 23)	mg/L	BLQ(LOQ:2.0)	--	--
20	Silica as SiO2	IS 3025 (Part 35)	mg/L	5.3	--	--
21	Total suspended solids (TSS)	IS 3025 (Part 17)	mg/L	BLQ(LOQ:2.0)	--	--

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.  
Free Residual Chlorine Limit to be Applicable only for Chlorinated Water.

Remarks : The Drinking Water Sample Conforms to the Requirements of Acceptable Limits as per IS 10500:2012 : Amd : 4 for the Parameters tested above.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

M. Sarathkumar  
Authorized Signatory-Chemical

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## TEST REPORT

ULR - TC611824000018761F

Page 1 of 2

Report No : QEN24040310-07 (Part A)

Report Date : 20 Apr 2024

**Customer Name** : M/s. Chettinad Products and Services Pvt Ltd  
**Customer Address** : Chettinad Corporate Office Site Rajah Muthiah Chettiar Charitable and Educational Trust, Survey No: 427716, Block No: 93, No. 1, Thandavarayan Street, Opp Iyappan Temple, MRC Nagar, Raja Annamalai Puram-Chennai-600028.  
**Sample Name** : Soil **Sample Quantity** : 2kg x 1No  
**Sample Description** : Soil **Sampling Date** : 15 Apr 2024  
**Reference** : Test Request Form Dated 15.04.2024 **Sample Received on** : 16 Apr 2024  
**Sample Drawn By** : Laboratory **Test Started on** : 16 Apr 2024  
**Sample Location** : Project Site **Test Completed on** : 20 Apr 2024  
**Sample Procedure** : SMSLA/EN/SOP/004

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results
1	Phosphorous as P	IS 10158	mg/kg	247
2	Potassium as K	IS 10158	mg/kg	461
3	Total Nitrogen as N	IS 14684	mg/kg	358
4	Conductivity at 25°C	IS 14767	µS/cm	195
5	Moisture	SMSLA/EN/SOP/024	%	6.4
6	pH at 25°C	IS 2720 (Part 26)	NA	7.81
7	Cadmium	EPA 200.8	mg/kg	BLQ (LOQ:2.0)
8	Copper	EPA 200.8	mg/kg	7
9	Lead	EPA 200.8	mg/kg	BLQ (LOQ:2.0)
10	Manganese	EPA 200.8	mg/kg	62.8
11	Nickel	EPA 200.8	mg/kg	BLQ (LOQ:2.0)
12	Zinc	EPA 3050 B	mg/kg	16.3
13	Phenolic Compounds	APHA 23rd Edition: 5530 C	mg/kg	BLQ (LOQ:0.1)
14	Total Alkalinity	APHA 23rd Edition: 2320 B	mg/kg	271
15	Texture	SMSLA/EN/SOP/042	--	Clay Loam
	Sand	SMSLA/EN/SOP/042	(%)	39.6
	Clay	SMSLA/EN/SOP/042	(%)	31.0
	Silt	SMSLA/EN/SOP/042	(%)	29.4

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TEST REPORT

ULR - TC611824000018761F  
Report No : QEN24040310-07 (Part A)

Page 2 of 2  
Report Date : 20 Apr 2024

S.NO	Parameter	Test Method	Unit	Results
16	Iron	EPA 3050 B	mg/kg	563
17	Bulk Density	SMSLA/WT/SOP/003	g/cc	1.19
18	Exchangeable Calcium	SMSLA/EN/SOP/13	m.eq/100g	12
19	Exchangeable Potassium	SMSLA/EN/SOP/13	m.eq/100g	1.15
20	Exchangeable Magnesium	SMSLA/EN/SOP/13	m.eq/100g	3.5
21	Organic matter	IS 2720 (Part 22)	(%)	0.78
22	Organic Carbon as C	IS 2720 (Part 22)	(%)	0.4

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

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Authorized Signatory-Chemical

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