

# **HALF YEARLY ENVIRONMENTAL COMPLIANCE REPORT**

**For the Period of “April 2024 to September 2024”**

**For**

**“Development of Industrial Park at Mannur and Nemili  
Villages, Kancheepuram District, Tamil Nadu”**

**EC OBTAINED Vide Letter No. SEIAA – TN/F.7640/EC / 8 (b)/835/2022 dated: 30.05.2022**

**Submitted by**



**M/S. STATE INDUSTRIES PROMOTION CORPORATION OF  
TAMILNADU LTD**

**19/A, Rukmani Lakshmipathy Road,  
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**Prepared by**



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**November 2024**

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## 1. PROJECT DETAILS

<b>Name of the Project</b>	SIPCOT Industrial Park, Nemili
<b>Name of the Proponent</b>	M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)
<b>Location</b>	Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
<b>EC. No.</b>	EC22B039TN164245 dt. 14.06.2022 SEIAA Letter No. SEIAA-TN/F.No/7640/EC/8(b)/835/2022 dt.30.05.2022 <b>(Enclosed as Annexure 1)</b>
<b>Area Details</b>	92.66 Hectares
<b>Water Requirement</b>	<p><b>Total water requirement:</b> 2211 KLD  <b>Fresh water</b> – 200 KLD, <b>TTRO water</b> – 993 KLD  and <b>Recycled water</b> – 1018 KLD</p> <p><b>Source:</b> CMWSSB</p> <p>(Fresh water: Chembarampakkam Lake, Tertiary Treated water: Koyambedu 45 MLD TTRO Plant)</p>
<b>Project Cost</b>	Rs.550 Crores

## 2. LOCATION MAP



### 3. SITE PHOTOGRAPHS



## 4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

### **SEAC Specific Conditions:**

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	All the water bodies shall be maintained properly.	Condition Noted. All the water bodies shall be maintained as is where condition is.
2.	The Project proponent shall consult with Auroville Foundation Government India Organisation-for the development of water bodies inside the Park.	Condition noted.
3.	The Proponent shall ensure that no schedule A & B industries as per EIA Notification 2006 shall be allowed in the Park.	Condition noted.
4.	The proponent shall construct ARHC complex to benefit a minimum of 5000 workers, as a part of the development of the Park' before obtaining CTO.	Condition will be complied.
4.	The project proponent shall ensure that the individual industries to be housed in the SIPCOT to achieve ZLD.	Condition will be complied. All the member units will be mandated to adopt ZLD system and use the treated water for their process and utilities as per the norms.
5.	The Project proponent shall submit flood inundation certificate and shall fix the level according to the conditions issued in certificate.	Condition will be complied.
6.	The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SEIAA.	Condition will be complied.
7.	The height of the stacks of DG sets shall be provided as per the CPCB norms.	All the member units will be instructed to follow applicable rules and guidelines.
8.	The project proponent shall allot necessary area for the collection of E- waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
9.	The sludge generated from the Sewage	Condition will be complied.

	Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.	All the member units will be instructed to have their own STP as per the requirement and to reuse the treated wastewater as per norms.
10.	The purpose of Green belt around the Project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species Should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be include in the layout out plan to be submitted for CMDA, DTCP approval. The total green belt area should be minimum 33% of the total area and the same shall not be used for car parking/OSR,	Condition will be complied. Greenbelt will be developed in minimum of 33% of total developable area with native and indigenous species.
11.	The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the pubic usage and as committed.	Condition will be complied. Entry and Exit points will be provided for the OSR area.
12.	The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.	Condition will be complied.
13.	The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. as	All the member units will be instructed to obtain necessary approvals / clearances and to follow applicable rules and guidelines.



	amended for the generation of Hazardous waste within the premises.	
14.	No waste of any type to be disposed Off in any other way other than the approved one.	Condition noted. All the member units will be instructed to comply with.
15.	The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.	Condition will be complied.
16.	All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.	Condition will be complied.
17.	The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.	Condition will be complied.
18.	The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post – COVID period.	Condition will be complied.
19.	Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.	Condition noted.
20.	As per the MoEF& CC Office Memorandum F.No. 22-6512017-1A.1 Dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.	Condition noted.
21.	As accepted, by the project proponents, 2 acres of land shall be earmarked for the development of AHRC Facility.	Condition will be complied.

**SEIAA Additional conditions:**

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The project proponent shall in-house Only non - EIA attracting industries as per EIA notification as amended as proposed & committed.	Condition will be complied.
2.	The project proponent shall start establishment only after complete alienation of Patta lands. Govt. Poramboke lands & water bodies within the proposed site in concurrence with the competent authority before obtaining consent from TNPCB.	Condition will be complied.
3.	The project proponent shall obtain necessary permission for water bodies such as Ponds Canals / Channels etc. within the proposed site from the competent authority before obtaining CTE from TNPCB.	Government of Tamil Nadu has issued Administrative sanction for acquisition of land vide G.O.Ms. No: 167 dated 02.12.2017.
4.	The project proponent shall ensure that Non - EIA attracting Industries to be in-housed shall treat the Sewage generated by providing adequacy individual ETP with ZLD followed by reject management system and shall reuse the treated effluent for the process activity.	Condition will be complied. All the member units will be mandated to adopt ZLD system and use the treated water for their process and utilities as per the norms.
5.	The project proponent shall ensure that Non – EIA attracting industries to be in housed shall treat the Sewage generated by providing adequate individual STP and shall reuse the treated sewage for the toilet flushing & greenbelt/gardening.	Condition will be complied. All the member units will be mandated to have individual STP. The treated water will be used for greenbelt as per the norms.
6.	The project proponent shall ensure that non – EIA attracting industries to be in- housed shall provide elevated STP/ETP of adequate capacity & its utilities above the ground level with adequate height considering highest rainfall & flood level/inundation point of view as recommended by the competent authority)	All the member units will be instructed to follow all applicable rules and guidelines.

	for the proposed project site	
7.	The project proponent shall ensure that the industries to be in – housed shall adhere that no treated or untreated trade effluents/sewage is discharged outside the premises under any circumstances.	Condition noted. All the member units will be instructed have STP/ETP for treatment of wastewater and to reuse the treated water as per the norms.
8.	The project proponent and the non- EIA attracting Industries to be in-housed shall provide the utilities / arrangement for fresh water supply, Storm/rain water management, and for reuse of treated sewage / effluent as proposed.	Condition Noted. All the member units shall comply with.
9.	The project proponent shall provide & maintain adequate storm water management & rain water harvesting structure as committed for the project site.	Condition Noted.
10.	The project proponent shall obtain necessary permission for disposal of storm water, to nearby storm water drain from competent authority, before obtaining CTO.	Condition noted.
11.	The project proponent shall ensure that industries to be in housed shall operate and maintain the proposed individual STP/ ETP efficiently and continuously to bring the quality of treated sewage/ effluent to satisfy the discharge standards prescribed by the CPCB at all times.	All the member units will be mandated to provide individual STP/ETP to treat the wastewater. The Treated water will be used for their process / utilities / greenbelt as per the norms.
12.	The recommendation for the issue of Environmental Clearance is subject to outcome of final orders of Hon'ble Madras High Court W.P Nos.27311/15. 31512115, 29691116,2885 1/16.3 8658/ 15,38659/15,3 1707/ 18 (Contempt Petition No.2041/19) 31711/18 (Contempt Petition No.2043/19), 31712/2018 (Contempt Petition No.2040/19)	Condition will be complied.
13.	All the construction of Buildings shall be energy efficient and conform to the green	All the member industries will be instructed to follow all applicable rules and guidelines.

	Building norms.	
14.	The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed.	Condition noted.
15.	The proponent shall adhere to the approval obtained for the source of fresh Water supply from the competent Authority.	Condition complied. The water requirement will be met from the TTRO plant (Koyambedu) and Chembarampakkam Lake through CMWSSB. CMWSSB allotment letter is enclosed as <b>Annexure – 9.</b>
16.	All bio safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP.	All the member industries will be instructed to follow applicable rules and guidelines.
17.	The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities.	All the member industries will be instructed to follow applicable rules and guidelines.
18.	The proponent shall ensure that the EIA/EMP and disaster management Plan should be adhered strictly.	Condition noted. All the member units shall comply with.
19.	The activities should in no way cause emission and build-up Green House Gases. All actions to be eco friendly and support sustainable management of the natural resources within and outside the campus premises.	All the member industries will be instructed to follow applicable rules and guidelines.
20.	The proponent should strictly comply with. Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.	Condition Noted. All the member industries will be instructed to follow applicable rules and guidelines.
21.	The proponent shall ensure that provision should be given for proper utilization of recycled water.	All the member units will be mandated to provide individual STP/ETP to treat the wastewater. The Treated water will be used for their process / utilities / greenbelt as per the

		norms.
22.	The proponent shall ensure that all trees & biodiversity listed in EIA report to be Protected within the premises.	Condition noted. All the member units shall comply with.
23.	The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building.	All the member industries will be instructed to follow all applicable rules and guidelines.
24.	All the Buildings shall be energy efficient and confirm to the green building norms.	All the member industries will be instructed to follow all applicable rules and guidelines.
25.	The proponent shall ensure almost safety for the existing biodiversity, trees, flora & fauna shall not disturb under any circumstances.	Condition noted.
26.	The proponent shall ensure that the all activities of EMP shall be completed before obtaining CTO from TNPCB.	EMP for construction phase will be completed before CTO.
27.	The proponent shall ensure that the activities undertaken should not result in Carbon emission and temperature rise, in the area.	All the member industries will be instructed to follow all applicable rules and guidelines.
28.	The proponent shall ensure that the buildings and activities should not result in Environmental damages, nor result in temperature rise.	All the member industries will be instructed to follow all applicable rules and guidelines.
29.	The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP.	Condition will be complied.
30.	The proponent shall provide the emergency exit in the buildings	Not applicable. It is an infrastructure development project.
31.	The proponent shall provide elevator as per rules CMDA/DTCP	Not applicable.
32.	The proponent shall provide adequate capacity of DG set (standby) for the Proposed STP so as ensure continues and efficient operation.	Not applicable. STP is not proposed by SIPCOT.
33.	The proponent shall adhere to the provision and norms regard to fire safety Prescribed by competent authority.	Condition will be complied. All the member industries will be instructed to follow all applicable rules and guidelines.
34.	The project proponent shall adhere to storm	Storm Water drain shall be provided all

	water management plan as committed.	along the internal roads.
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**PART A - Common condition applicable for Pre-construction, Construction and Operational Phase:**

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Any appeal against this environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	No appeal lies against this Environmental Clearance.
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.	Condition noted. Construction shall be carried out as per the layout approval.
3.	The project proponent shall obtain and adhere to flood inundation certificate and shall fix the level according to the condition issued recommended by competent authority.	Condition will be complied.
4.	The project proponent shall ensure to Provide and maintain adequate safety Distance & Safety measures/ Environmental mitigation measures periodically for the ecosystem such as water bodies, reserve forest/forest, grazing fields. Agricultural fields & underground pipelines etc in & around the proposed site as recommended by competent authority time to time.	Condition Noted.
5.	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.	Condition noted.

6.	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 W ild Life (Protection) A, 1972, State/Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.	Condition noted.  All the member industries will be instructed to obtain all necessary statutory clearances and approvals.  Consent to Establish obtained from TNPCB and the copy of CTE is attached as <b>Annexure-2</b> .
7.	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 his Environmental Clearance as the case may be.	Condition noted.
8.	A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.	Condition noted.
9.	The environmental 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 Pollution Control Board as prescribed under the Environment (protection) Rules. 1986. 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 to the Regional Office of the Ministry of Environment and Forests. Chennai by e-mail.	Condition complied.  Form V Acknowledgement is attached as <b>Annexure – 12</b> .
10.	The Regional Office of the Ministry Located at Chennai shall monitor Compliance of the stipulated conditions. The project authorities	Condition noted.

	Should extend full cooperation to the Officer (s) of the Regional Office by furnishing the requisite data information monitoring reports.	
11.	Consent For Establishment" shall be obtained from the Tamil Nadu pollution Control Board and a copy shall be submitted to the SEIAA. Tamil Nadu.	Conditions complied. CTE obtained from TNPCB and the copy of CTE is attached as <b>Annexure-2</b> .
12.	In the case of any changes in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	Condition noted. There is no change in the scope of project.
13.	The conditions will be enforced inter-alia. Under the provisions of the Water (Prevention & Control Of pollution) Act, 1974, the Air (prevention Pollution) Act, 1981, the Environment (protection) Act, 1986. The public Liability Insurance Act, 1991, along with their amendments, draft minor mineral Conservation & Development Rules Sale & Control of Act. 1986, the public ,draft Minor Mineral 2010 framed Under MMDR Act 1957,National Commission for protection Of Child Right Rules,2006 and rules Made there under and also any other orde6 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.	Condition noted.
14.	The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.	Condition noted.
15.	Failure to comply with any of the condition mentioned above may result in withdrawal of this clearance and attract action under the provision of the Environment (Protection) Act, 1986	SIPCOT shall comply with all applicable conditions specified in the EC.
16.	The proponent shall upload the status of	Condition is being complied. Compliance of EC



	compliance of the stipulated EC condition, 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, Bangalore and the TNPCB. The Criteria pollutant levels namely PM 10, PM 2.5, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectional parameters' indicated for the project shall be monitored.	conditions uploaded in website is enclosed as <b>Annexure – 11.</b>
17.	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 if it is found or if it comes to the Knowledge of this SEIAA. TN that the project proponent has deliberately concealed and/or this environmental clearance. Submitted false or misleading Information or inadequate data for obtaining the environmental clearance.	Condition noted.
18.	The Environmental Clearance does not imply that 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'.	Condition noted.
19.	The SEIAA, TN may alter/modify the above condition in the interest of environmental protection, even during the subsequent period.	Condition noted.
20.	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.	Condition noted.
21.	Where the trees need to be cut, compensation	Condition noted.

	plantation in the ratio of 1:10 (planting of 10 trees for every one tree that is cut) should be done with the obligation to continuous maintenance.	
22.	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.	Condition complied. Separate environmental management cell has been assigned and will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as <b>Annexure - 3.</b>
23.	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.	Condition Noted.
24.	The project activity should not cause any disturbance & deterioration of the local bio diversity.	Condition Noted.
25.	The project activity should not Impact the water bodies. A detailed inventory of the water bodies forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.	Condition will be complied. Surface water quality monitoring report is enclosed as <b>Annexure - 4.</b>
26.	All the assessed flora & fauna should be conserved and protected.	Condition Noted.
27.	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.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
28.	As per MoEF & CC Gol, Office Memorandum	Not applicable.

	dated 30.03.2015. prior clearance from Forestry & wildlife angle as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10 Km from National Park and Sanctuaries.	
29.	Traffic congestion near the entry and exist points from the roads adjoining the proposed project site must be avoided.	Condition will be complied.
30.	The safety measures proposed in the report should be strictly followed.	Condition will be complied. All the member units will be instructed to comply with.
31.	The Developer shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.	Condition will be complied.
32.	The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.	Condition will be complied.
33.	The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.	Condition will be complied. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards. Also the member units will be instructed to follow applicable rules and guidelines.
34.	The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.

	throw away plastic.	
35.	The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.	Condition will be complied. Application for obtaining land use classification certificate is submitted.
36.	The CER fund shall be utilized as per the office memorandum of MoEF& CC dated 01.05.2018 before obtaining CTO from TNPCB.	Condition will be complied.
37.	The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.	All the member units will be instructed to obtain all necessary statutory clearances and approvals.
38.	The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.	Condition will be complied.
39.	The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.	Condition will be complied.
40.	Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.	All the member units will be mandated to have individual STP. The treated water will be used for greenbelt as per the norms.
41.	It is the sole responsibility of the proponent that the treated sewage disposed for greenbelt development/avenue plantation should not pollute the soil/ groundwater/ adjacent canals/ lakes/ ponds, etc.	All the member units will be mandated to provide individual STP/ETP to treat the wastewater. The Treated water will be used for their process / utilities / greenbelt as per the norms.
42.	The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade Effluents.	Condition will be complied. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards.
43.	The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rule 2016 as amended and E-	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.

	Waste Management Rules, 2016.	
44.	There shall be no discharge of effluent outside the Industrial Park at any time.	Condition will be complied. All the member units will be instructed to comply with. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system.
45.	The Developer shall mandate the member units of the Industrial Park to install adequate APC measures / Acoustic to achieve air emissions standards within permissible limits prescribed by the CPCB.	All the member units will be instructed to follow all applicable rules and guidelines.

**Part- B – Specific Conditions – Pre Construction Phase:**

S.NO	CONDITIONS	STATUS OF COMPLIANCE
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 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.	Condition complied. Newspaper advertisement copy is enclosed as <b>Annexure - 5</b> .  The copy of the press release has been forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA- TN. Acknowledgement copy of the same is enclosed as <b>Annexure - 6</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	Condition noted.  There is no change in the scope of project.
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.	Condition complied.  The acknowledgement copy from the local bodies is attached as <b>Annexure -7</b> .  Screen shot of EC copy uploaded in the website is attached as <b>Annexure -8</b> .
4.	The approval of the competent authority	All the member units will be instructed to

	shall be obtained for structural safety of the buildings during earthquake adequacy of fire fighting equipments, etc as per National Building Code including protection measures from lightning etc before commencement of the work.	obtain all necessary statutory clearances and approvals.
5.	All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.	Condition noted and will be complied. All the member units will be instructed to comply with.
6.	Design of building should be in conformity with the Seismic Zone Classifications.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
7.	The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.	Condition will be complied. All the member units will be instructed to comply with.
8.	No construction activity of any kind shall be taken up in the OSR area.	Condition noted and will be complied.
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.	STP is not proposed by SIPCOT. Individual industries will be instructed have their own STP as per their requirement and to reuse the treated wastewater as per norms.
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.	Condition is not applicable. Site does not fall in CRZ area.
11.	The Project Proponent shall provide car parking exclusively for the visiting guest In the proposed residential apartments as per CMDA norms.	Condition is not applicable. Proposed project is development of Industrial Park.
12.	The project proponent shall ensure the level of basement shall be above maximum flood level.	Condition noted and will be complied. All the member units will be instructed to comply with.
13.	The proponent shall prepare completion	

	<p>plans showing Separate pipelines marked with different colours with the following details</p> <ol style="list-style-type: none"> <li>1. Location of STP, compost system, underground sewer line</li> <li>2. Pipe Line conveying the treated effluent for green belt development</li> <li>3. Pipe Line conveying the treated effluent for toilet flushing</li> <li>4. Water supply pipeline</li> <li>5. Gas supply pipe line, if proposed</li> <li>6. Telephone cable</li> <li>7. Power cable</li> <li>8. Storm water drains, and</li> <li>9. Rain water harvesting system, etc., and it shall be made available to the owners.</li> </ol>	Condition applicable will be complied.
14.	A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.	Condition noted. All the member units shall comply with.
15.	The present land use surrounding the project site shall not be disturbed at any point of time.	Condition noted.
16.	The green belt area shall be planted With indigenous native trees.	<p>Condition will be complied.</p> <p>Greenbelt will be developed with indigenous native species.</p>
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.	Condition noted.
18.	During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.	During construction and operation phase there will be no disturbance to the aquatic eco – system
19.	The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.	Not applicable.
20.	There should be Fire Fighting Plan and all required safety plan.	Condition will be complied. All the member units will be instructed to follow applicable

		rules and guidelines.
21.	Regular fire drills should be held to create awareness among owners/ residents.	Condition will be complied. All the member units shall comply with.

**Part - C – Specific Condition – Construction phase:**

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	<b>Construction Schedule:</b>	
(i)	The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.	Condition noted.
2.	<b>Labour Welfare:</b>	
i)	All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.	Condition noted. All the member units will be instructed to comply with.
ii)	Personnel working In dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on 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.	Condition noted. All the member units will be instructed to follow applicable rules and guidelines.
iii)	Periodical medical examination of the workers engaged in the project shall be carried out and 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.	Condition noted. All the member units will be instructed to comply with.
3.	<b>Water Supply:</b>	
i)	The entire water requirement during construction phase may be met from ground	Condition noted and will be complied.



	water source from the source with approval of the PWD Department of water resources/ may be out source.	
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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Condition not applicable. Local labours will be employed for the project. There will not be any housing for labours.
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.	Condition noted. All the member units will be instructed to comply with.
iv)	Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.	Condition noted. All the member units shall comply with.
v)	Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.	Condition noted. All the member units shall comply with.
4.	<b>Solid Waste Management:</b>	
i)	In the solid waste management plan, the STP sludge management plan for direct use as manure, gardens is not acceptable; it must be co-composted with biodegradables.	All the member units shall comply with.
ii)	House hold hazardous wastes 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.	All the member units will be instructed to follow applicable rules and guidelines.

iii)	Domestic solid wastes to be regularly collected in bins or waste handling receptacles and solid waste management rules 2016.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
iv)	No waste of any type disposed of in any watercourse including drains, canals and the surrounding environment.	Condition Noted. All the member units will be instructed to comply with.
v)	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.	Condition Noted. All the member units will be instructed to follow applicable rules and guidelines.
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.	Condition Noted. All the member units will be instructed to comply with.
6.	<b>Construction Debris disposal:</b>	
i)	Disposal of construction debris during construction phase should not create any adverse effect on the neighbouring 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.	Condition Noted. All the member units will be instructed to follow applicable rules and guidelines.
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.	Condition noted. All the member units will be instructed to comply with.
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.	Condition noted. All the member units will be instructed to follow applicable rules and guidelines.
ii)	The diesel required for stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of explosives shall be taken.	Condition noted. All the member units shall be instructed to obtain necessary approvals.
iii)	The acoustic enclosures installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.	Condition Noted. All the member units shall comply with.
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. Photos of vehicles during night shall be obtained if possible	Condition Noted. All the member units will be instructed to follow applicable rules and guidelines.
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.	Condition Noted. Individual industries will be instructed to comply with their statutory approvals / clearances. Ambient Air and Noise Monitoring Reports are enclosed as <b>Annexure - 4</b> .
iii)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space	Condition Noted.

	should be utilized. Parking plan to be as per DTCP norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be meet before commissioning	
iv)	The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	All the member units shall comply with.
9.	<b>Building material:</b>	
i)	Fly-ash blocks should be used as building material in the construction as per the 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.	All the member units will be instructed to follow applicable rules and guidelines.
ii)	Ready-mix concrete used in building construction and necessary cube tests should be conducted ascertain their quality.	All the member units shall comply with.
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.	All the member units shall comply with.
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.	Storm water will be provided all along the internal road. All the member industries will be instructed to follow applicable rules and guidelines.
ii)	Storm water management plan shall be obtained by engaging the services of Anna University/IIT.	Condition Noted.
11.	<b>Energy Conservation Measures:</b>	
i)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation	All the member units will be instructed to follow applicable rules and guidelines.

	material, to fulfill 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.	All the member units will be instructed to follow applicable rules and guidelines.
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.	All the member units will be instructed to follow applicable rules and guidelines.
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.	Condition Noted. All the member units will be advised to comply with.
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 month's time.	The proposed project is an establishment of industrial park which involves provision of roads, storm water drains, greenbelt, Power supply, water supply, etc. The member units will be instructed to follow applicable rules and guidelines.
vi)	Energy conservation 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.	Condition Noted. All the member units shall comply with.
12.	<b>Fire Safety:</b>	
i)	Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.	Condition Noted. All the member units will be instructed to comply with.
ii)	Proper and free approach road for fire-fighting vehicles upto the buildings and	Condition Noted and will be complied. All the member units will be instructed to comply

	for rescue in the event of emergency shall be made.	with
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.	Condition will be complied.
ii)	The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. If possible Miyawaki method of planting i.e planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout plan to be submitted for CMDA/ DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/ OSR.	Condition Noted. Overall greenbelt of minimum 33% will be developed as per the layout approval with native and indigenous plant species.
iii)	The proponent shall develop the green belt	Condition noted. Overall greenbelt of minimum

	as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.	33% will be developed as per the layout approval.
iv)	The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval.	Condition will be complied. Greenbelt will be developed as per the Layout Approval.
14.	<b>Sewage Treatment Plant:</b>	
i)	The Sewage Treatment Plant (STP)m installed should be certified by an independent expert/ reputed academic institutions 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.	All the member units will be instructed to comply with.
ii)	The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.	Condition noted. All the member units will be instructed to comply with.
iii)	The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.	Individual industries will be mandated to have their own STP for treatment of domestic wastewater and to reuse the treated water as per norms.
iv)	The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.	All the member units will be instructed to comply with.
v)	The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB	All the member units will be instructed to comply with.
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.	All the member units will be instructed to comply with.

15.	<b>Rain Water Harvesting:</b>	
i)	The proponent/Owner 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 water shall be reused.	Condition noted. All the member units will be instructed to comply with.
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.	Condition noted. All the member units will be instructed to comply with.
iii)	The project activity should not cause any disturbance & deterioration of the local bio diversity.	Condition noted.
16.	<b>Building Safety:</b>	
	Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.	All the member units will be instructed to follow applicable rules and guidelines.

**Part – D Specific Condition – Operational Phase/ Post constructional phase/ Entire life of the project:**

Not Applicable – Since the project is under construction phase.



## **5. ENVIRONMENTAL MONITORING DETAILS**

It is mandatory to submit six monthly compliance report (Half Yearly Compliance) to MoEF & CC Regional Office by the project proponent. For the purpose of submitting Six-Monthly Compliance report, environmental monitoring was carried out at site by M/s. Hubert Enviro Care Systems Pvt. Ltd an NABL Laboratory for the period of April 2024 to September 2024.

### **5.1 Ambient Air Quality Monitoring**

The Ambient Air Quality parameters such as suspended particulate matter (PM<sub>10</sub>), Respirable matter (PM<sub>2.5</sub>), Sulphur dioxide, Oxides of Nitrogen (NO<sub>x</sub>) and Carbon monoxide were monitored. The test report of ambient air quality for the period of April 2024 to September 2024 is attached as **Annexure - 4**.

### **5.2 Ambient Noise Level Monitoring**

Ambient noise level was monitored during the period of April 2024 to September 2024 and the test report of ambient noise recorded is attached as **Annexure - 4**.

### **5.3 Soil Quality Monitoring**

Soil samples were collected and analyzed for nutrients and heavy metals. The test report of soil samples collected and analyzed during the period of April 2024 to September 2024 is enclosed as **Annexure - 4**.

### **5.4 Ground Water Quality Monitoring**

Ground water was tested for various water quality parameters during the period of April 2024 to September 2024. The test report of ground water samples collected and analyzed is enclosed as **Annexure - 4**.

### **5.5 Surface Water Quality Monitoring**

The surface water was collected and tested for various water quality parameters during the period of April 2024 to September 2024. The test report of surface water collected and analyzed is enclosed as **Annexure - 4**.

## 6. CONCLUSION

1. The environmental monitoring was carried out at site during the period of April 2024 to September 2024
2. All the conditions stipulated in Environmental Clearance are being / will be complied.

  
**Dr. RAJKUMAR SAMUEL**  
Director Technical

**Name:** Dr. Rajkumar Samuel

**Designation:** Director Technical

**Company Name:** Hubert Enviro Care  
Systems Private Limited

# Annexure

ENVIRONMENTAL  
CLEARANCE

**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Issued by the State Environment Impact Assessment**  
**Authority(SEIAA), Tamil Nadu)**

To,

The Managing Director  
 STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU  
 LIMITED (SIPCOT)  
 19-A,Rukmani Lakshmi pathy Road, Egmore,Chennai -600008

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/TN/MIS/59361/2020 dated 23 Dec 2020. The particulars of the environmental clearance granted to the project are as below.

- |  |   |
|--|---|
| 1. EC Identification No.                   | <b>EC22B039TN164245</b>   |
| 2. File No.                                | 7640  |
| 3. Project Type                            | New   |
| 4. Category                                | B1  |
| 5. Project/Activity including Schedule No. | 8(b) Townships and Area Development projects.   |
| 6. Name of Project                         | Development of Industrial Park at Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu" |
| 7. Name of Company/Organization            | STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT)  |
| 8. Location of Project                     | Tamil Nadu  |
| 9. TOR Date                                | 23 Sep 2020   |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 14/06/2022

(e-signed)  
**Tmt.P.RAJESWARI,IFS**  
**Member Secretary**  
**SEIAA - (Tamil Nadu)**

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*





TMT. P. RAJESWARI, I.F.S.,  
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY – TAMIL NADU

3rd Floor, Panagal Maaligai,  
No.1 Jeenis Road, Saidapet,  
Chennai-15.

Phone No.044-24359973

Fax No. 044-24359975

**ENVIRONMENTAL CLEARANCE (EC)**

**Letter No. SEIAA-TN/F.7640/EC/ 8(b)/835/2022 dated: 30.05.2022.**

Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed Development of Industrial Park at Mannur and Nemili Villages in an area of 92.66 Ha by M/s. State Industries Promotion Corporation of Tamil Nadu Limited at S.F. Nos. 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt. 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E of Mannur Village & S.F.Nos. 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 of Nemili village, Sriperumbudur Taluk, Kancheepuram District under Category 'B' and Schedule S.No. 8(b) under the Environment Impact Assessment Notification, 2006, as amended - Issued – Regarding.

Ref: 1. Your application for Terms of Reference dated: 13.07.2020

2. ToR Issued by SEIAA-TN Vide Lr.No.SEIAA-TN/F.No.7640/SEAC/8(b)/ToR-764/2020 dated: 23.09.2020

3. Online Application for EC vide SIA/TN/MIS/59361/2020, dated: 23.12.2020

4. EIA report submitted to SEIAA-TN on 24.12.2020

5. Minutes of the 223<sup>rd</sup> SEAC Meeting held on 30.07.2021

6. Proponent reply dated 29.04.2022

7. Minutes of the 268<sup>th</sup> SEAC Meeting held on 29.05.2022

8. Minutes of the 513<sup>rd</sup> SEIAA Meeting held on 30.05.2022

  
MEMBER SECRETARY  
SEIAA-TN



\*\*\*\*\*

This has reference to your application 3<sup>rd</sup> & 4<sup>th</sup> cited, the proposal seeking Environmental Clearance for the proposed development of industrial park at S.F. Nos. 511/9A, 512/2A1A, etc. of Mannur Village & S.F.Nos. 1, 2, 3, etc. of Nemili Village Sriperumbudur Taluk, Kancheepuram District under Category 'B' and Schedule S.No. 8(b) under the Environment Impact Assessment Notification, 2006, as amended.

The Competent Authority and Authorized signatory furnished detailed information in Form I and Form 1A and liquidate enclosures are as Annexures:

**Annexure 1**

PROJECT DETAILS		
SL No	Description	Details
1)	Name of the Project proponent and address	The Managing Director M/s. State Industries Promotion Corporation of Tamil Nadu Limited. 19-A, Rukmani Lakshmipathy Road Post Box no.7223 Egmore Chennai-600 008
2)	Proposed Activity	Proposed Development of Industrial Park at Mannur and Nemili Villages in an area of 92.66 Ha
3)	Schedule No.	8(b)
4)	Project Location	
	i) Survey No	S.F. Nos. 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt. 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2,

  
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		543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E of Mannur Village & S.F.Nos. 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 of Nemili Village Sriperumbudur Taluk, Kancheepuram District.																																													
	ii)Revenue Village	Mannur Village & Nemili Village																																													
	iii)Taluk	Sriperumbudur																																													
	iv)District	Kancheepuram																																													
	v) Latitude & Longitude	<table border="1"> <thead> <tr> <th>S. No.</th><th>Latitude (N)</th><th>Longitude (E)</th></tr> </thead> <tbody> <tr><td>1</td><td>13°0'16.62"</td><td>79°56'37.34"</td></tr> <tr><td>2</td><td>13°0'21.94"</td><td>79°56'38.76"</td></tr> <tr><td>3</td><td>13°0'22.00"</td><td>79°56'40.45"</td></tr> <tr><td>4</td><td>13°0'27.02"</td><td>79°56'41.23"</td></tr> <tr><td>5</td><td>13°0'29.12"</td><td>79°56'37.20"</td></tr> <tr><td>6</td><td>13°0'29.88"</td><td>79°56'37.25"</td></tr> <tr><td>7</td><td>13°0'31.94"</td><td>79°56'34.29"</td></tr> <tr><td>8</td><td>13°0'32.03"</td><td>79°56'33.71"</td></tr> <tr><td>9</td><td>13°0'32.46"</td><td>79°56'34.00"</td></tr> <tr><td>10</td><td>13°0'33.34"</td><td>79°56'32.82"</td></tr> <tr><td>11</td><td>13°0'37.06"</td><td>79°56'33.93"</td></tr> <tr><td>12</td><td>13°0'43.43"</td><td>79°56'39.51"</td></tr> <tr><td>13</td><td>13°0'45.86"</td><td>79°56'37.71"</td></tr> <tr><td>14</td><td>13°0'51.43"</td><td>79°56'39.32"</td></tr> </tbody> </table>	S. No.	Latitude (N)	Longitude (E)	1	13°0'16.62"	79°56'37.34"	2	13°0'21.94"	79°56'38.76"	3	13°0'22.00"	79°56'40.45"	4	13°0'27.02"	79°56'41.23"	5	13°0'29.12"	79°56'37.20"	6	13°0'29.88"	79°56'37.25"	7	13°0'31.94"	79°56'34.29"	8	13°0'32.03"	79°56'33.71"	9	13°0'32.46"	79°56'34.00"	10	13°0'33.34"	79°56'32.82"	11	13°0'37.06"	79°56'33.93"	12	13°0'43.43"	79°56'39.51"	13	13°0'45.86"	79°56'37.71"	14	13°0'51.43"	79°56'39.32"
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**SEIAA-TN**

15	13°0'55.00"	79°56'47.68"
16	13°0'54.43"	79°56'47.44"
17	13°0'53.32"	79°56'50.53"
18	13°0'52.25"	79°56'49.22"
19	13°0'51.49"	79°56'51.69"
20	13°0'52.29"	79°56'51.76"
21	13°0'49.89"	79°56'57.22"
22	13°0'48.91"	79°56'57.77"
23	13°0'47.34"	79°56'57.25"
24	13°0'46.07"	79°57'0.04"
25	13°0'46.46"	79°56'58.05"
26	13°0'39.91"	79°56'57.41"
27	13°0'36.91"	79°57'7.55"
28	13°0'20.82"	79°57'4.54"
29	13°0'16.93"	79°57'5.27"
30	13°0'14.64"	79°57'4.36"
31	13°0'12.90"	79°57'6.93"
32	13°0'9.90"	79°57'0.31"
33	13°0'13.62"	79°56'49.37"

5) Details of area of the proposed industrial park

Village	Patta (ha)	Poramboke (ha)	Total (ha)
Mannur	26.250	1.450	27.700

  
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	Nemili	56.535	8.425	64.960
	<b>Total</b>	<b>82.785</b>	<b>9.875</b>	<b>92.66</b>
6)	Breakup details of proposed development of Industrial park			
	<b>Description</b>	<b>Area (Acre)</b>	<b>Ha</b>	<b>% of developable area</b>
	Plot Coverage	141.04	57.10	72.40
	Common amenities	3.90	1.58	2.00
	Commercial activities	5.84	2.36	3.00
	Solid Waste Management	1.50	0.61	0.77
	Road, Storm and drain	18.95	7.68	9.73
	OSR area	17.59	7.12	9.03
	Green Belt	5.98	2.42	3.07
	Total developable area	194.8	78.87	100
	Water bodies	23.39	9.47	
	HT line with buffer (Line1 400Kv-46m ROW, Line2 110Kv-22m ROW)	6.73	2.72	
	IOCL pipeline with 18m ROW	3.95	1.60	
	Total area of the Industrial Park	228.87	92.66	

  
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7) Brief description of the project

The Industrial Park is proposed in 92.66 Ha (228.87 Acres) (Nemili village - 64.960 Ha, Mannur village -27.7 Ha) to accommodate only industries that will not fall under A or B Category as per EIA notification, 2006 and amendments.

Around 70% of the plotted area (40.23 Ha) is proposed to be allotted for Electronics and electrical parts manufacturing/ assembling industries.

20% of plotted area (11.15 Ha) is proposed for IT Parks and 10% of the plotted area (6.27 Ha) is proposed for Engineering industries (including fabrication), Auto ancillary industries, packaging industries falling under Red, Orange, Green and White category industries.

Industry Sector	Approximate % of Plot	Plot Nos	Area (Acres)	Area (Ha)	Schedule as per EIA Notification and its amendments	Category as per CPCB
Electronics & Electrical	70	1-25	99.36	40.23	Nil	Red, Orange, Green & white
IT Parks	20	26-33	27.55	11.15		
Other Non EC category industries such as Engineering (including Fabrication, Auto ancillary industries, packaging industries,	10	34-37	15.48	6.27		

  
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	etc						
		100		142.39	57.65		
8)	Green Belt area	5.98Acres					
9)	Source of Water	Fresh water requirement to be met from Chembarambakkam Lake. Treated water from TTRO plant of CMWSSB.					
10)	Water requirement; Construction Phase	20 kLD - To be met from private tankers.					
	Operation Phase						
		<b>Water Usage</b>	<b>Fresh water (kLD)</b>	<b>TTRO (kLD)</b>	<b>Recycled water (kLD)</b>	<b>Total water(kLD)</b>	
		Domestic	200	0	0	200	
		Domestic (Flushing)	0	250	0	250	
		Utilities	0	0	192	192	
		Process	0	212	396	608	
		Green belt development	0	531	430	961	
		<b>Total</b>	<b>200</b>	<b>993</b>	<b>1018</b>	<b>2211</b>	
11)	Waste Water management :						
		<b>Wastewater</b>	<b>Quantity</b>	<b>Methods of treatment and disposal</b>			
		Sewage	430	Individual STP to be provided by each individual industry and the treated sewage to be used for Greenbelt.			

  
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	Effluent	590	Individual ETP with ZLD system by each individual industry and the treated effluent to be recycled for the process & utilities.	
	SIPCOT to mandate and ensure installation of individual STP/ETP by the each individual industry.			
12)	Solid Waste Management			
	<b>Component</b>	<b>Construction phase (Kg/day)</b>	<b>Operation phase (Kg/day)</b>	<b>Disposal Method</b>
	MSW - Organic waste	30	3000	<b>MSW in Industrial Plots:</b> SIPCOT to mandate and ensure that all the individual industries to manage the Municipal Solid Waste generated by them within their premises as per Solid waste Management Rules 2016 as amended. Municipal Solid Wastes to be segregated by the individual industries as organic and inorganic wastes. Organic wastes to be composted by each individual industry and to be used as manure for green belt development. Inorganic wastes to be disposed to TNPCB authorized recyclers by the each individual industry. <b>MSW in area apart from Industrial Plots:</b> SIPCOT has earmarked 1.5 Acres of land for establishment of Solid Waste
	MSW - Inorganic waste	20	2000	

  
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			Management facility. Organic wastes to be composted using Organic waste convertor and compost will be used as manure for green belt development. Inorganic waste to be disposed to TNPCB authorized recyclers.
	Hazardous waste	Used oil from construction DGs	SIPCOT to mandate and ensure that all the individual industries to provide their own hazardous waste storage area within their site and to dispose the hazardous waste generated and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended.
	E waste	Not applicable	SIPCOT to mandate and ensure that all the individual industries to provide their own E- waste storage area within their site and to dispose the E-waste generated as per E Waste (Management) Rules 2016 as amended.
13)	Green Belt Area		Overall Green belt area including OSR - 70.1 Acres (28.383 ha). Green belt area by SIPCOT - 5.98 Acres (2.42 ha).
14)	Power requirement		The power requirement for the proposed industrial Park is 15 MVA. The Power requirement for the Park to be supplied by Tamil Nadu Generation and Distribution Co Ltd (TANGEDCO) from the Grid. Individual industries to have backup DG sets as per their requirement.
15)	Rain water Harvesting		Individual industries to provide adequate no. of RWH pits. To provide adequate RWH pits all along the storm

  
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		water drain.
16)	Storm Water Management	To provide open concrete channels along the road for collection of storm water.
17)	Project Cost	Rs.550 Crores
18)	EMP Cost	Capital Cost- Rs.827.53 Lakhs Recurring cost-Rs.11.0 Lakhs
19)	CER Cost	Rs. 5 Crores for development of ARHC facility in 2 acres of land as committed.

**Annexure 2- Affidavit**

I, Thiru. T. Anand, I.A.S, Managing Director, Authorized Signatory, representing M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT) having registered office at 19-A, Rukmani Lakshmipathy Road, Egmore, Chennai – 600008, for proposed “Development of Industrial Park over an extent of 92.66 Hectares (228.87 acres) at Mannur Village (S.F. Nos – 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt, 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E) and Nemili Village (S.F. Nos. - 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30) of Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu State, hereby take oath and state as under in this affidavit:

- I. The total water requirement of the park is estimated at 2211 KLD (Fresh water:200 KLD, TTRO water:993 KLD and Recycled water:1018 KLD). Fresh water requirement for the Industrial Park is proposed to be sourced from existing SIPCOT water supply scheme from Chembarambakkam Lake and TTRO water will be sourced through Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB).
- II. Power Supply (15 MVA) will be ensured from Tamil Nadu Generation and Distribution Co. Ltd. (TANGEDCO) Facility as a common supply system by SIPCOT to all member industries. The Individual industries will avail power supply from TANGEDCO and may have backup DG sets as per their requirement.

  
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- III. All member industries will be instructed to provide rain water harvesting structures as per norms. SIPCOT will construct Rainwater harvesting pits along the storm water drain for recharging ground water.
- IV. Storm water drainage will be provided as open concrete channels along the road ensuring proper collection of storm water and the same will be used for charging the rain water harvesting structures. We confirm that the storm water drain would not carry any untreated (or) treated sewage.
- V. All member industries will be instructed to have their own solid waste and hazardous storage facility within their Plot. Inorganic waste will be sold to TNPCB authorized recyclers by member units. SIPCOT has earmarked 1.5 Acres of land for establishment of Solid Waste Management facility.
- VI. All member industries will be mandated to store and dispose the hazardous waste generated within their premises as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- VII. Individual industries will be mandated to provide STP/ETP with adequate capacity and maintain Zero Liquid Discharge (ZLD) system.
- VIII. Overall Greenbelt area of the park would be ~70.11 acres i.e. 35.99% of developable area i.e., 194.8 acres.
- IX. EMP cost of the park is INR 827.53 Lakhs. Details are given below:

Sl.No	Project Components	Capital Cost (Rs. in lakhs)
1	Storm Water drains	650.00
2	Rain Water Harvesting	40.00
3	Solid Waste Management	25.00
4	Green Belt Development	8.53
5	Fencing of Water channel	34.00
6	Solar Street Lights	45.00
7	Medical Dispensary / First Aid Facility	25.00
	<b>Total EMP Cost</b>	<b>827.53</b>

- X. As per MoEF&CC Office Memorandum dated 01.05.2018 and as per discussion in the 268<sup>th</sup> SEAC meeting dated 29.04.2022, SIPCOT has committed to earmark 2 Acres of land for the development of Industrial Housing Facility through Public Private Partnership (PPP) mode, which works to about ₹5 Crores towards

  
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Corporate Environment Responsibility (CER) activity. The same has been committed vide our letter dated 02.05.2022.

Declaration

I, Thiru. T. Anand, I.A.S., do hereby declare that the statement made by me under para (I) to (X) are true and correct to the best of my knowledge and belief. Nothing is false and nothing is concealed in it.

SEAC Remarks:

Proposed Development of Industrial Park at Mannur and Nemili Villages in an area of 92.66 Ha at S.F. Nos -511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt, 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E in Mannur village, Sriperumbudur Taluk, Kancheepuram District. S.F.Nos. -1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 in Nemili village Sriperumbudur Taluk, Kancheepuram District Nemili Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu by M/s.State Industries promotion Corporation of Tamil Nadu - For Environmental Clearance.

(SIA/TN/MIN/59361/2020, dated: 23.12.2020)

The proposal was placed for appraisal in this 268<sup>th</sup> SEAC meeting held on 29.5.2022.

The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. State Industries promotion Corporation of Tamil Nadu (SIPCOT), has applied for Environmental Clearance for the proposed Development of Industrial Park at Mannur and Nemili Villages in an area of 92.66 Ha at S.F.No: 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A Nemili Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(b) "Township Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, this proposal was placed before 223<sup>rd</sup> meeting of SEAC held on 30.07.2021, based on the presentation and documents furnished by the project

  
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proponent, SEAC decided to obtain following details from the PP.

- The project proponent shall leave the area for water bodies without any encroachment in the site as per FMB sketch. There are 6 water bodies within the area and hence the project proponent shall revise the plan accordingly leaving path for water bodies.
- The project proponent shall submit Village map, 'A' register.
- The project proponent shall revise storm water management plan. The storm water shall be collected, stored / treated and shall be reused.
- The project proponent shall not plan OSR area in HT line and any activity nearby HT line shall be strictly followed as per EB rules.
- The project proponent shall not include OSR in green belt area.
- The project proponent shall not plan any activity near IOC pipeline area.
- The project proponent shall not plan for any Red category type of industries.
- The project proponent shall work out pollution load, after deciding the planned infrastructure inside that are to be housed.

Based on PP reply on 29.4.2022, this proposal was again placed in 268<sup>th</sup> SEAC meeting held on 29.5.2022. The PP made a presentation along with replies to the above short comings raised in 223<sup>rd</sup> SEAC meeting. Based on the presentation made and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions, in addition to normal conditions stipulated by MOEF &CC:

1. All the water bodies shall be maintained properly.
2. The Project proponent shall consult with Auroville Foundation – Government of India organisation - for the development of waterbodies inside the Park.
3. The Proponent shall ensure that no schedule A & B industries as per EIA Notification 2006, shall be allowed in the Park.
4. The proponent shall construct ARHC complex to benefit a minimum of 5,000 workers, as a part of the development of the Park, before obtaining CTO.
4. The project proponent shall ensure that the individual industries to be housed in

  
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the SIPCOT to achieve ZLD.

5. The project proponent shall submit flood inundation certificate and shall fix the level according to the conditions issued in the certificate.
6. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SEIAA.
7. The height of the stacks of DG sets shall be provided as per the CPCB norms.
8. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
9. The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.
10. The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 33% of the total area and the same shall not be used for car parking/OSR.
11. The project proponent shall provide entry and exit points for the OSR area as per the norms for the public usage and as committed.
12. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
13. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and

  
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Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.

14. No waste of any type to be disposed off in any other way other than the approved one.
15. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
16. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
17. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
18. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
19. Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
20. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-LA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
21. As accepted by the Project proponent, 2 acres of land shall be earmarked for the development of AHRC Facility.

**SEIAA Remarks:**

The proposal was placed in the 513<sup>th</sup> Authority meeting held on 30.05.2022. The Authority after detailed discussions accepted the recommendation of SEAC and decided to grant of Environmental Clearance subject to the conditions as recommended by SEAC & normal condition in addition to the following conditions:

1. The project proponent shall in-house only non - EIA attracting industries as per EIA notification as amended as proposed & committed.
2. The project proponent shall start establishment only after complete alienation of Patta lands, Govt. Poramboke lands & water bodies within the proposed site in

  
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concurrence with the competent authority before obtaining consent from TNPCB.

3. The project proponent shall obtain necessary permission for water bodies such as ponds, Canals/channels etc within the proposed site from the competent authority before obtaining CTE from TNPCB.
4. The project proponent shall ensure that non - EIA attracting Industries to be in-housed shall treat the Effluent generated by providing adequate individual ETP with ZLD followed by reject management system and shall reuse the treated effluent for the process activity.
5. The project proponent shall ensure that non - EIA attracting Industries to be in-housed shall treat the Sewage generated by providing adequate individual STP and shall reuse the treated sewage for the toilet flushing & green belt/gardening.
6. The project proponent shall ensure that non - EIA attracting Industries to be in-housed shall provide elevated STP/ETP of adequate capacity & its utilities above the ground level with adequate height considering highest rainfall & flood level /inundation point of view as recommended by the competent authority for the proposed project site.
7. The project proponent shall ensure that the industries to be in-housed shall adhere that no treated or untreated trade effluent/sewage is discharged outside the premises under any circumstances.
8. The project proponent and the non - EIA attracting Industries to be in-housed shall provide the utilities/ arrangements for fresh water supply, Storm/rain water management, and for reuse of treated sewage/effluent as proposed.
9. The project proponent shall provide & maintain adequate storm water management & rain water harvesting structures as committed for the project site.
10. The project proponent shall obtain necessary permission for disposal of storm water to the nearby storm water drain from the competent authority before obtaining CTO.
11. The project proponent shall ensure that industries to be in-housed shall operate and maintain the proposed individual STP / ETP efficiently and continuously to bring the quality of treated sewage/effluent to satisfy the discharge standards prescribed by the CPCB at all times.

  
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12. The recommendation for the issue of Environmental Clearance is subject to outcome of final orders of Hon'ble Madras High Court W.P Nos.27311/15, 31542/15, 29691/16,28851/16,38658/15,38659/15,31707/18 (Contempt Petition No .2042/19), 31708/18 (Contempt Petition No .2041/19)31711/18 (Contempt Petition No .2043/19), 31712/2018 (Contempt Petition No .2040/19).
13. All the construction of Buildings shall be energy efficient and conform to the green building norms.
14. The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed.
15. The proponent shall adhere to the approval obtained for the source of fresh water supply from the competent Authority.
16. All biosafety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP.
17. The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities.
18. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.
19. The activities should in no way cause emission and build-up Green House Gases. All actions to be eco friendly and support sustainable management of the natural resources within and outside the campus premises.
20. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
21. The proponent shall ensure that provision should be given for proper utilization of recycled water.
22. The proponent shall ensure that all trees & biodiversity listed in EIA report to be protected within the premises.
23. The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building.
24. All the Buildings shall be energy efficient and confirm to the green building norms.

  
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25. The proponent shall ensure utmost safety for the existing biodiversity, trees, flora & fauna in and around the project site & shall not disturb under any circumstances.
26. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB.
27. The proponent shall ensure that the activities undertaken should not result in carbon emission, and temperature rise, in the area.
28. The proponent shall ensure that the buildings and activities should not result in Environmental damages, nor result in temperature rise.
29. The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP.
30. The proponent shall ensure to provide the emergency exit in the buildings.
31. The proponent shall ensure to provide elevator as per rules CMDA/DTCP.
32. The proponent shall ensure to provide adequate capacity of DG set (standby) for the proposed STP so as ensure continues and efficient operation.
33. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority.
34. The project proponent shall adhere to storm water management plan as committed.

Environmental Clearance along with the conditions containing four parts namely

Part - A - Common conditions applicable for Pre-construction, Construction and Operational Phases

Part - B - Specific Conditions - Pre construction phase

Part - C - Specific Conditions - Construction phase

Part - D - Specific Conditions - Operational Phase/Post constructional Phase / Entire life of the project.

**Validity:**

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 as amended, with validity for Seven years from the date of issue of EC, subject to the compliance of the terms and conditions stipulated below:

  
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**Part - A – Common conditions applicable for Pre-construction, Construction and Operational Phases:**

1. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
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.
3. The project proponent shall obtain and adhere to flood inundation certificate and shall fix the level according to the conditions issued recommended by competent authority.
4. The project proponent shall ensure to provide and maintain adequate safety distance & Safety measures/ Environmental mitigation measures periodically for the ecosystem such as water bodies, reserve forest/forest, grazing fields, agricultural fields & underground pipelines etc in & around the proposed site as recommended by competent authority time to time.
5. 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.
6. 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 by project proponent from the concerned competent authorities.
7. 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 Clearance as the case may be.
8. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.

  
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9. 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. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
10. 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.
11. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
12. 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.
13. 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.
14. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
15. 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.
16. 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

  
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MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.

17. 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.
18. The Environmental Clearance does not imply that 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.
19. 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.
20. 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.
21. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
22. 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.
23. 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.
24. The project activity should not cause any disturbance & deterioration of the local bio diversity.

  
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25. 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.
26. All the assessed flora & fauna should be conserved and protected.
27. 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.
28. As per MoEF & CC, Gol, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.
29. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
30. The safety measures proposed in the report should be strictly followed.
31. The Developer shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.
32. The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.
33. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
34. The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and throwaway plastics.

  
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35. The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.
36. The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.
37. The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
38. The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.
39. The proponent shall provide adequate nos. of Rain Water Harvesting pits so as to recharge the ground water table.
40. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
41. It is the sole responsibility of the proponent that the treated sewage disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc.
42. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents,
43. The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rule 2016 as amended and E-Waste Management Rules, 2016
44. There shall be no discharge of effluent outside the Industrial Park at any time.
45. The Developer shall mandate the member units of the Industrial Park to install adequate APC measures/Acoustic to achieve air emissions standards within permissible limits prescribed by the CPCB.

**Part - B – Specific Conditions – Pre construction phase:**

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

  
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press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.

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.
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.
4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments, etc as per National Building Code including protection measures from lightning etc before commencement of the work.
5. All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
6. Design of buildings should be in conformity with the Seismic Zone Classifications.
7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
8. No construction activity of any kind shall be taken up in the OSR area.
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.
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.
11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
12. The project proponent shall ensure the level of basement shall be above maximum flood level.
13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
  - i. Location of STP, compost system, underground sewer line.
  - ii. Pipe Line conveying the treated effluent for green belt development.

  
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- 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. Storm water drains, and
  - ix. Rain water harvesting system, etc., and it shall be made available to the owners
14. A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.
15. The present land use surrounding the project site shall not be disturbed at any point of time.
16. The green belt area shall be planted with indigenous native trees.
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.
18. During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.
19. The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.
20. There should be Fire fighting plan and all required safety plan.
21. Regular fire drills should be held to create awareness among owners/ residents.

**Part - C - Specific Conditions – Construction phase:**

**1. Construction Schedule:**

- i) The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.

**2. Labour Welfare:**

- i) All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.

  
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- ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on 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.
- 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.

### **3. Water Supply:**

- i) The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out sourced.
- 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.
- 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.
- iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.

### **4. Solid Waste Management:**

  
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- 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.
- 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.
- iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.
- iv) No waste of any type to be disposed of 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.

**5. Top Soil Management:**

- i) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.

**6. Construction Debris disposal:**

- 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.
- 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.

**7. Diesel Generator sets:**

- i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall

  
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conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.

- ii) The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.
- iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.

**8. Air & Noise Pollution Control:**

- 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.
- 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.
- iii) Traffic congestion near the entry and exit 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 DTCP norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be met before commissioning.
- iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.

**9. Building material:**

- i) Fly-ash blocks should be used as building material in the construction as per the 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.

  
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- 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.

#### **10. Storm Water Drainage:**

- i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.
- ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.

#### **11. Energy Conservation Measures:**

- i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill 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.
- 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.
- 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.
- 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 month's time.
- 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.

#### **12. Fire Safety:**

- i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.

  
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- 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.

### 13. Green Belt Development:

- 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.
- ii) The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with CPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/OSR.
- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.
- iv) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval.

### 14. Sewage Treatment Plant:

- i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a

  
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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.

- ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.
- iii) The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.
- iv) The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.
- v) The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.
- 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.

**15. Rain Water Harvesting:**

- i) The proponent 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 water shall be reused.
- 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.
- iii) The project activity should not cause any disturbance & deterioration of the local bio diversity.

**16. Building Safety:**

Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.

**Part – D - Specific Conditions – Operational Phase/Post constructional phase/Entire life of the project:**

- 1. There should be Fire fighting plan and all required safety plan.
- 2. Regular fire drills should be held to create awareness among owners/ residents.

  
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3. 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.
4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
5. The project proponent has to furnish the certificate stating that the proposed site had not encroached any water body (rivers, canals, lakes, ponds, tanks, etc) from its original boundary shall be obtained from the competent authority before obtaining CTE from TNPCB.
6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. Solar energy saving shall be increased to atleast 10% of total energy utilization.
8. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
9. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.
10. 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.
11. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
12. The project activities should in no way disturb the manmade structures.

  
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13. 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.
14. "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.
15. Raw water quality to be checked for portability and if necessary RO plant shall be provided.
16. The Proponent ensure the proper maintenance of common facilities including greening, rain water harvesting, storm water disposal, sewage treatment and disposal, solid waste disposal and environmental monitoring for the industrial park premises and for the industries to be in-housed for the entire period.
17. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
18. 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 made to mitigate the odour and mosquito problem from STP.
19. The Proponent shall ensure operation of STP continuously by providing stand by DG set in case of power failure.
20. Adequate measures should 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 centre as per E- waste (Management & Handling), Rules 2016 as amended.
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.
23. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.

  
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24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
25. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
26. The proponent ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
27. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
28. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.
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.

  
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SEIAA-TN

**Copy to:**

1. The Additional Chief Secretary to Government, Environment & Forests Dept, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. The APCCF (C), Integrated Regional Office, Ministry of Environment & Forest (SEZ), Chennai - 34.

5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Kanchipuram District
7. Stock File.







# TAMILNADU POLLUTION CONTROL BOARD

Receipt No. - 851/2022

Category of the Industry :

RED



CONSENT ORDER NO. 2201247199402

DATED: 28/12/2022.

PROCEEDINGS NO.T4/TNPCB/F.3089SPR/RL/SPR/A/2022 DATED: 28/12/2022



**SUB:** TNPC Board-Consent for Establishment-M/s. SIPCOT INDUSTRIAL PARK, NEMILI, S.F. No. S.F. Nos - 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt, 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E) of Mannur Village and S.F. Nos. - 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 of Nemili Village, MANNUR village, Sriperumbudur Taluk and Kancheepuram District - for the establishment or take steps to establish the industry under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987(Central Act. 14 of 1981)-Issued -Reg.

**REF:** 1. Unit's application for CTE-New on 12.09.2022/ 03.12.2022  
2. IR.No : F.3089SPR/RL/AEE/SPR/2022 dated 21/11/2022  
3. Minutes of TSC Resolution No. 208-03 dated 22.12.2022

Consent to establish or take steps to establish is hereby granted under Section 21 of the Air (Prevention and control of Pollution) Act,1981, as amended in 1987 and the Rules and Orders made there under to:

The Managing Director,

M/s. SIPCOT INDUSTRIAL PARK, NEMILI

S.F No.S.F. Nos - 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt, 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E) of Mannur Village and S.F. Nos. - 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 of Nemili Village,

MANNUR Village,

Sriperumbudur Taluk,

Kancheepuram District.

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F No. S.F. Nos - 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt, 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E) of Mannur Village and S.F. Nos. - 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 of Nemili Village,

MANNUR Village,

Sriperumbudur Taluk,

Kancheepuram District.

This Consent to establish is valid upto **May 29, 2029**, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.





## TAMILNADU POLLUTION CONTROL BOARD

Digitally signed by  
RAGUPATHI  
SANGANAN  
Date: 2022.12.29  
12:14:34 +05'30'  
For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

To

The Managing Director,

M/s.SIPCOT INDUSTRIAL PARK, NEMILI,

The State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmiipathy Road, Egmore, Chennai .

Pin: 600008

**Copy to:**

- 1.The Commissioner, SRIPERUMBUDUR-Panchayat Union, Sriperumbudur Taluk, Kancheepuram District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, SRIPERUMBUDUR,
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

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## TAMILNADU POLLUTION CONTROL BOARD

### SPECIAL CONDITIONS

1. This consent to establish is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
<b>Product Details</b>			
1.	The Industrial Park is an infrastructure development project proposed in 92.66 Ha (228.87 Acres) (Nemili village - 64.90 Ha, Mannur village - 27.2 Ha) which involves development and maintenance of roads, storm water drains, water supply, power supply through TANGEDCO, street lights, green belt development and other such amenities to accommodate only industries that will not fall under A or B Category as per EIA notification, 2006 and amendments.	92.66	Hectares

2. This consent to establish is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

<b>I</b>	<b>Point source emission with stack :</b>			
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr
<b>II</b>	<b>Fugitive/Noise emission :</b>			
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	

#### 3. Special Additional Conditions:

- i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.
- ii. The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

#### 4. Additional Conditions:

1. The SIPCOT shall ensure to comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA-TN/F.No.7640/EC/8(b)/835/2022 dated 30.05.2022.
2. The SIPCOT shall ensure that no process emission is let out from its activity.
3. The SIPCOT shall conduct Ambient Noise level survey report and Ambient Air Quality survey report for base line data to assess the quality of Ambient Air and Ambient Noise level and submit the report.
4. The SIPCOT shall ensure that the allotted industries provide adequate APC/ acoustic/ odour control measures, so as to ensure that the emission satisfy the AAQ/SM/ANL standards prescribed by the Board and for containment of odour emanating from the industries.
5. The SIPCOT shall initiate action to develop green belt in 33% of total area with native species.
6. The SIPCOT shall remit consent fee in case of revision by the Government.



**TAMILNADU POLLUTION CONTROL BOARD**

**RAGUPATHI  
SANGANAN**

Digitally signed by  
RAGUPATHI  
SANGANAN  
Date: 2022.12.29  
12:15:10 +05'30'  
For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai





## TAMILNADU POLLUTION CONTROL BOARD

### GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

Digitally signed by  
**RAGUPATHI SANGANAN**  
Date: 2022.12.29  
12:15:41 +05'30'  
For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

ON I.G.S. ONLY

பிளாஸ்டிக் மாசில்லா தமிழகத்தை உருவாக்குவோம் !



To:

The Managing Director,

M.S.PCOT INDUSTRIAL PARK, NEMILI,

The State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmiipathy Road, Egmore, Chennai

Pin: 600008



### Tamil Nadu Pollution Control Board

No.76, Mount Salai, Guindy, Chennai - 600 032.

Telephone : 22353134 to 141

Telegram : 'CONPOL' Fax : 044 - 22353068

E-mail : tnpcb-chn@gov.in

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POSTED AT NSH CH-16





## TAMILNADU POLLUTION CONTROL BOARD

Receipt No: 848/2023



Category of the Industry :

RED

CONSENT ORDER NO. 2201147199402

DATED: 28/12/2022.

PROCEEDINGS NO.T4/TNPCB/F.3089SPR/RL//SPR/W/2022 DATED: 28/12/2022



**SUB:** TNPC Board-Consent for Establishment-M/S SIPCOT INDUSTRIAL PARK, NEMILI S.F No. S.F. Nos - 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt, 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E) of Mannur Village and S.F. Nos. - 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 of Nemili Village, MANNUR Village, Sriperumbudur Taluk, Kancheepuram District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988(Central Act 6 of 1974)- Issued- Reg.

**REF:** 1. Unit's application for CTE-New on 12.09.2022/ 03.12.2022  
2. IR.No : F.3089SPR/RL/AEE/SPR/2022 dated 21/11/2022  
3. Minutes of TSC Resolution No. 208-03 dated 22.12.2022

Consent to establish or take steps to establish is hereby granted under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988(Central Act 6 of 1974) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Managing Director,  
SIPCOT INDUSTRIAL PARK, NEMILI

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F. No.S.F. Nos - 511/9A, 512/2A1A, 512/2A1B, 512/2A2, 512/2A3, 512/2B, 512/2C, 512/2D, 512/2E, 512/4A1A1, 512/4A1A2, 512/4A1B, 512/4A2, 512/4A3, 512/4A4, 512/5, 512/6, 512/7, 513, 514, 516, 517, 518, 519 Pt, 540B/2A1, 540B/2A2, 540B/2B, 540B/2C, 541pt, 542B/1A1A, 542B/1A1B, 542B/1A2, 543B/B1, 543B/B2, 544B, 650/1A1A, 650/1A1B, 650/1A2, 650/1B, 650/1C, 650/1D, 650/1E) of Mannur Village and S.F. Nos. - 1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30 of Nemili Village,

MANNUR Village,  
Sriperumbudur Taluk,  
Kancheepuram District.

This Consent to establish is valid upto **May 29, 2029**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

Digitally signed by  
**RAGUPATHI SANGANAN**  
Date: 2022.12.29  
12:12:12 +05'30'  
For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

To  
The Managing Director,  
M/s.SIPCOT INDUSTRIAL PARK, NEMILI,  
The State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmiipathy Road, Egmore, Chennai ,  
Pin: 600008



## TAMILNADU POLLUTION CONTROL BOARD

**Copy to:**

1. The Commissioner, SRIPERUMBUDUR-Panchayat Union, Sriperumbudur Taluk, Kancheepuram District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, SRIPERUMBUDUR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

\*\*\*\*\*





## TAMILNADU POLLUTION CONTROL BOARD

### SPECIAL CONDITIONS

- This consent to establish is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
<b>Product Details</b>			
1.	The Industrial Park is an infrastructure development project proposed in 92.66 Ha (228.87 Acres) (Nemili village - 64.90 Ha, Mannur village - 27.2 Ha) which involves development and maintenance of roads, storm water drains, water supply, power supply through TANGEDCO, street lights, green belt development and other such amenities to accommodate only industries that will not fall under A or B Category as per EIA notification, 2006 and amendments.	92.66	Hectares

- The unit shall provide Sewage Treatment Plant and /or Effluent Treatment Plant as indicated below.

<b>a Sewage Treatment Plant:</b>			
Treatment status: Septic Tank and SP/DT			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Septic Tank	1	4.2 m x 2.3 m x 1.9
2.	Soak Pit	1	1.0 m dia x 2.5 m Ht
<b>b Effluent Treatment Plant:</b>			
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			

- This consent to establish is valid for establishing the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
<b>Effluent Type : Sewage</b>			
1.	Sewage 1(From SIPCOT Project office)	0.85	On Industrys own land
2.	Sewage 2(From Individual industries)	430.0	Individual STP to be provided by each individual industry and the treated sewage to be used for Green belt
<b>Effluent Type : Trade Effluent</b>			
1.	Effluent from Individual Industries	590.0	Individual ETP with ZLD system by each individual industry and the treated effluent to be recycled for the process & utilities.

- Special Additional Conditions:





The unit shall obtain a No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

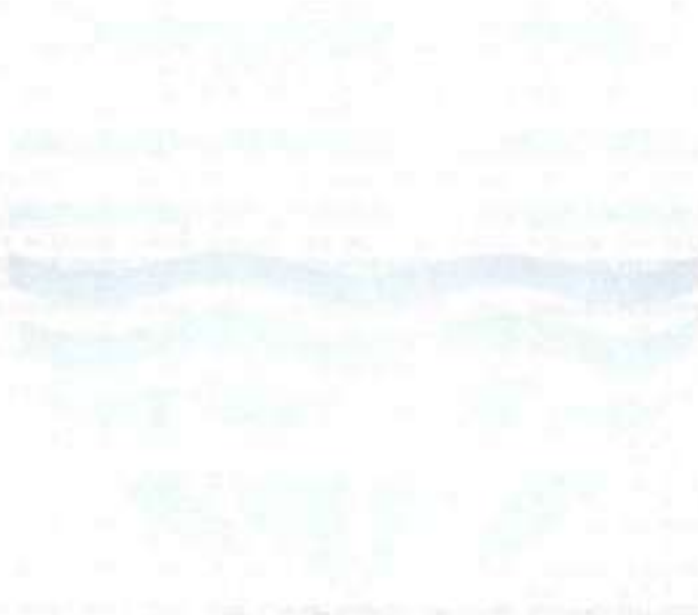
**5. Additional Conditions:**

1. The SIPCOT shall ensure to comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA-TN/F. No.7640/EC/8(b)/835/2022 dated 30.05.2022.
2. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
3. The SIPCOT shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
4. In accordance with Item No.9 of the EIA Notification, 2006, the SIPCOT shall possess valid EC while applying for CTO of the Board.
5. In accordance with Item No.11 of the EIA Notification, 2006, SIPCOT shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
6. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
7. The SIPCOT shall obtain and furnish the approved planning permission from the Competent Authority while applying for CTO of the Board.
8. The stability of the entire building does not falls under the purview of the TNPCB Board.
9. The SIPCOT shall allow only the industries that do not attract the provisions of EIA notification 2006 as amended in the industrial park as per the EC obtained.
10. The SIPCOT shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
11. The SIPCOT shall provide Septic Tank followed by Soak Pit to treat the Sewage generated from SIPCOT Administrative Building, so as to achieve the standards prescribed by the Board.
12. The SIPCOT shall submit baseline data for ground water to assess the quality of ground water around 1 KM radius outside the boundary of the project and also from available open wells inside the premises within a month's time.
13. The SIPCOT shall monitor the ground water in and around the unit premises periodically, so as to assess its quality and submit the ROA of the same to the Board.
14. The SIPCOT shall ensure that all the individual industries manage the Municipal Solid Waste generated by them within their premises as per Solid waste Management Rules 2006 as amended.
15. The SIPCOT shall provide a common solid waste treatment and disposal facility for the disposal of solid wastes (bio degradable wastes).
16. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc., shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules, 2016.
17. The SIPCOT shall allot 5% of the total plot area for Solid Waste Management as per the Solid waste Management Rules, 2016 as amended.
18. The SIPCOT shall earmark the area allotted for Greenbelt development and 5% for Solid Waste Management in a layout plan and furnish the same while applying for CTO of the Board.
19. The SIPCOT shall provide Rain Water Harvesting pits so as to recharge the ground water table.
20. The SIPCOT shall ensure that the plastic wastes are segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
21. The SIPCOT shall properly develop the common amenities like road, Storm water drain, street lights, water supply pipelines and avenue plantation in OSR area.
22. The SIPCOT shall earmark the buffer zone all around the periphery of the layout.
23. The SIPCOT shall provide solar powered lights for illumination of common areas, lighting for gardens and street lighting.
24. The SIPCOT shall ensure that all the allotted industries implement ZLD system for treating the trade effluent and shall ensure that no treated/ untreated sewage or trade effluent gain access outside the unit premises on land/water sources under any circumstance.
25. The SIPCOT shall ensure that the allotted units not dig any well or bore well inside their premises for drawing of ground water.
26. The SIPCOT shall comply with the E- waste Management Rules, 2016. E-waste as listed in Schedule – I if generated, shall be channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of e- waste generation in Form – 2 and make such records available for scrutiny by the TNPCB.
27. The SIPCOT shall ensure that the Industries housed in the Industrial Estate treat and dispose the sewage, trade effluent, solid waste, hazardous waste & E-waste disposal in compliance with the respective Acts.
28. The SIPCOT shall remit consent fee in case of revision by the Government.



## TAMILNADU POLLUTION CONTROL BOARD

Digitally signed by  
**RAGUPATHI SANGANAN**  
Date: 2022.12.29  
12:12:56 +05'30'  
For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai







## TAMILNADU POLLUTION CONTROL BOARD

### GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

**RAGUPATHI  
SANGANAN**

Digitally signed by

RAGUPATHI

SANGANAN

Date: 2022.12.29

12:13:28 +05'30'

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

## **ENVIRONMENTAL MANAGEMENT CELL**

### **1. INTRODUCTION:**

- 1.1. For effective implementation and monitoring of environmental management system, it is necessary to have a permanent organizational set-up as Environmental Management Cell (EMC). This is done by assigning responsibility to the concerned personnel for implementation of environmental control measures.
- 1.2. SIPCOT Environmental Management Cell consist of 7 team members headed by SIPCOT Managing Director, General Manager (Projects), Manager and two Environmental Consultants assisted by two Office Staffs which will enforce and implement the Environmental Plan.
- 1.3. The Organization of Environmental Management Cell (EMC) proposed is given in **Figure - 1**.



**Figure - 1 Organogram for Environmental Management Cell**

## **2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:**

- 2.1. Environmental Management Cell (EMC) shall obtain all applicable statutory clearances and approvals as mandated by the regulatory authorities and maintain the Industrial Parks in compliance with all applicable rules and regulations.
- 2.2. Other responsibilities of the cell will include:
  - a) Review the progress of regulatory compliance of SIPCOT and initiate necessary action for the compliance of the same.
  - b) The EMC will review, implement, update, and comply with the Environment Policy to ensure the effective implementation of environmental safeguard measures.
  - c) Keeping the Board updated on regular basis about the activities carried out under environmental measures and suggests measures to improve environment preservation and protection.
  - d) Encourages allottee units to implement, adopt and use of green and sustainable technologies such as Solar, Wind, Thermal, Biomass, Electric & Hybrid vehicles, etc. to achieve more resource-efficient, clean and resilient growth towards reducing pollution during their process, manufacturing and transportation of goods and encourages energy recovery for self sustainability from their Industrial process.
  - e) Mandate industries to reduce the use of one time use plastics, Styrofoam, and other plastic material during the packing and delivery of goods.

**Table – 1: Roles and responsibilities of EMC**

<b>S.No.</b>	<b>Designation</b>	<b>Responsibilities</b>
1	Managing Director	<ul style="list-style-type: none"> <li>➤ Responsible for overall environmental management.</li> <li>➤ Regularly conduct meeting with EMC and take feedback regarding all the activities performed under Environmental Management and give directions to succeeding component.</li> <li>➤ Approval of funds for carrying out environmental management activities.</li> </ul>
2	GM – Projects	<ul style="list-style-type: none"> <li>➤ Keep aware about all the activities performed under EMC in the industrial parks.</li> <li>➤ Issuing direction to Project officers for implementing Greenbelt development, Storm water management, rain water harvesting, etc.</li> <li>➤ To deal with legal entity pertaining to environmental issues.</li> </ul>
3	Manager	<ul style="list-style-type: none"> <li>➤ To prepare and allocate budget for Environment Management Plan.</li> <li>➤ Ensuring compliance to the conditions prescribed by statutory authority.</li> <li>➤ Mandating member industries to comply with the conditions stipulated in the statutory approvals and non-compliance if any shall be reported to GM and immediately required action will be taken.</li> </ul>
4	Environmental Consultants (Two)	<ul style="list-style-type: none"> <li>➤ Obtaining Statutory Approvals from MoEF&amp;CC / SEIAA / TNPCB, etc.</li> <li>➤ Addressing the various queries received from statutory authorities on environmental front.</li> <li>➤ Submitting Environmental compliance report and coordinating with project officers for Environmental monitoring, audit, etc.</li> <li>➤ Compliance with the environmental laws and implications which dynamically changes from time to time due to the emerging challenges.</li> </ul>

**TEST REPORT**

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : NA

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : Project Site

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0

Sampling Method &amp; Plan : IS 17614(Part-1):2021

ULR : TC1231024000044901F

Report No. : HECS/AP/092/190924

Sample ID No : 190924279

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 24/09/2024

Report Date : 24/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m <sup>3</sup>	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m <sup>3</sup>	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	6.23	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m <sup>3</sup>	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	24.38	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	11.56	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m <sup>3</sup>	54.23	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m <sup>3</sup>	25.71	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	12.87	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m <sup>3</sup>	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

\*\*\*End of Report\*\*\*

D.Anusuya  
Lab Manager

Authorized Signatory





# Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in

## Laboratory Services Division

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

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : NA

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : Project Site

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0

Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECS/AP/092/190924/N

Sample ID No : 190924279

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 24/09/2024

Report Date : 24/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No:01 Issue Date:02-07-2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppmv- Parts per million by Volume,  
\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



## Laboratory Services Division

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



### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

ULR : TC12310240000449021

Report No. : HECS/AP/093/190924

Sample ID No : 190924280

Sampling Date : 19/09/2024

Group : Atmospheric Pollution

Sample Name : Ambient Air(Air)

Sample Mark : NA

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : Panjammathangal

Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.0

Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 24/09/2024

Report Date : 24/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1 )	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m3	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m3	7.81	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m3	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m3	23.56	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m3	11.23	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m3	56.91	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m3	26.23	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m3	10.68	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
Authorized Signatory

## Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

## Laboratory Services Division

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

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Atmospheric Pollution

Sample Name : Ambient Air(Air)

Sample Mark : NA

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : Panjamathangal

Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.0

Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECS/AP/093/190924/N

Sample ID No : 190924280

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 24/09/2024

Report Date : 24/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02.07.2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppmv- Parts per million by Volume.

\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
Authorized Signatory



**Hubert Enviro Care Systems (P) Ltd.**

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**TEST REPORT**

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Atmospheric Pollution

Sample Name : Ambient Air(Air)

Sample Mark : NA

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : Valapuram

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0

Sampling Method &amp; Plan : IS 17614(Part-1):2021

ULR : TC1231024000044903F

Report No : HECS/AP/094/190924

Sample ID No : 190924281

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 24/09/2024

Report Date : 24/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1 )	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	5.23	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	25.39	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	10.23	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	54.56	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	26.23	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	12.54	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

\*\*\*End of Report\*\*\*

D.Anusuya  
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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Nemmili  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
Sample Mark : NA  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : Valapuram  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 17614(Part-1):2021  
Report No. : HECS/AP/094/190924/N  
Sample ID No : 190924281  
Sampling Date : 19/09/2024  
Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 24/09/2024  
Report Date : 24/09/2024  
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.01 Issue Date:02-07 2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppmv- Parts per million by Volume.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

ULR : TC1231024000044907F  
Report No. : HECS/AP/095/190924  
Sample ID No : 190924282  
Sampling Date : 19/09/2024

Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
Sample Mark : NA  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : Thandalam  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 24/09/2024  
Report Date : 24/09/2024  
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1.	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2.	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3.	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1 )	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4.	Benz(a) pyrene-AAQ	ng/m3	BLQ (LOQ: 0.1)	IS - 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5.	Ammonia as NH3	µg/m3	8.15	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6.	Carbon Monoxide (CO)	mg/ m3	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7.	Nitrogen dioxides as NO2	µg/m3	22.86	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8.	Ozone as O3	µg/m3	11.31	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9.	Particulate matter (Size less than 10 µm)	µg/m3	55.39	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10.	Particulate matter (Size less than 2.5 µm)	µg/m3	25.42	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11.	Sulphur dioxide as SO2	µg/m3	12.36	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12.	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

\*\*\*End of Report\*\*\*



D.Anusuya  
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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : NA

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : Thandalam

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0

Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECS/AP/095/190924/N

Sample ID No : 190924282

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 24/09/2024

Report Date : 24/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02/07/2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppmv- Parts per million by Volume.

\*\*\*End of Report\*\*\*



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**Laboratory Services Division**(Chemical & Biological Testing)  
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Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Neumilli

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : NA

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : Anakaputhur

Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.0

Sampling Method &amp; Plan : IS 17614(Part-1):2021

ULR : TC1231024000044908F

Report No : HECS/AP/096/190924

Sample ID No : 190924283

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 24/09/2024

Report Date : 24/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1 )	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benz(a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	6.87	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	24.63	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	12.15	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	56.85	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	24.29	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	11.31	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Nemmilli  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
Sample Mark : NA  
Sample Reference : NA  
Sample Drawn by : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : Anakaputhur  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECS/AP/096/190924/N  
Sample ID No : 190924283  
Sampling Date : 19/09/2024  
Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 24/09/2024  
Report Date : 24/09/2024  
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02.07 2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppmv- Parts per million by Volume.

\*\*\*End of Report\*\*\*



D.Amudaya  
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**Laboratory Services Division**(Chemical & Biological Testing)  
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ISO 9001, 14001 & 45001 Certified.**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Near Project Area

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method &amp; Plan : IS 17614(Part-1):2021

ULR : TC1231024000045091F

Report No. : HECSL/WT/126/190924

Sample ID No : 190924284

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH <sub>3</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 ( Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B C): 2017	0.2	1
3	Bi carbonate	mg/l	95.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD) <sub>5</sub> @ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	22.04	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	48.99	IS 3025 Part 32: 1988 ( Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.4	IS 3025 (Part 38): 1989 ( Titrimetric Method)	NA	NA

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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Near Project Area

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000045091F

Report No : HECST/WT/126/190924

Sample ID No : 190924284

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	407.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.25	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.28	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	12.15	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	5.78	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	33.42	HECS /WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.68	IS 3025(Part 11) : 2022 ( Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	2.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	1.06	IS 11624: 2019	NA	NA
24	Sodium as Na	mg/l	25.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SHPCOT

Address of the Client : Nennili

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

U/LR : TC1231024000045091F

Report No : HECSL/WT/126/190924

Sample ID No : 190924284

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO <sub>4</sub>	mg/l	21.14	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	95.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	218.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	5.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	0.091	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.021	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	105.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	2.2	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

U.L.R : TC1231024000045091F  
Report No : HECSL/WT/126/190924  
Sample ID No : 190924284  
Sampling Date : 19/09/2024

Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

\*\*\*End of Report\*\*\*



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## Laboratory Services Division

(Chemical & Biological Testing)  
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ISO 9001, 14001 & 45001 Certified.

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Nemmili  
Group : Water  
Sample Name : Ground Water (All)  
Sample Mark : Near Project Area  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/126/190924/N  
Sample ID No : 190924284  
Sampling Date : 19/09/2024  
Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 ( Diphenyl Carbazide method)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l - Milligrams per liter.  
\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmli

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Valapuram

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C): 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

U/LR : TC1231024000045092F  
Report No. : HECSL/WT/127/190924  
Sample ID No : 190924285  
Sampling Date : 19/09/2024

Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH <sub>3</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B, C): 2017	0.2	1
3	Bi carbonate	mg/l	85.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	38.07	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	83.28	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 ( Titrimetric Method)	NA	NA



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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Valapuram

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

U/LR : TC1231024000045092F

Report No. : HECSL/WT/127/190924

Sample ID No : 190924285

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	559.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.34	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.062	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	18.22	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	16.34	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Pecent Sodium	%	35.35	HECS /WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.61	IS 3025(Part 11) : 2022 ( Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	3.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	1.46	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	44.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Near Valapuram

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

U.I.R : TC1231024000045092F

Report No. : HECSL/WT/127/190924

Sample ID No. : 190924285

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO <sub>4</sub>	mg/l	24.18	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	85.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	302.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	3.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	170.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	1.4	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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## Laboratory Services Division

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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Near Valapuram

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

U/LR : TC1231024000045092F

Report No. : HECSL/WT/127/190924

Sample ID No. : 190924285

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIP'COT  
Address of the Client : Nemmill  
Group : Water  
Sample Name : Ground Water (All)  
Sample Mark : Near Valapuram  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/127/190924/N  
Sample ID No. : 190924285  
Sampling Date : 19/09/2024  
Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 ( Diphenyl Carbazide method)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l - Milligrams per liter.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-I):2021

ULR : TC1231024000045093F  
Report No : HECSL/WT/128/190924  
Sample ID No : 190924286  
Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 ( Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B _C): 2017	0.2	1
3	Bi carbonate	mg/l	160.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	52.10	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	244.95	IS 3025 Part 32: 1988 ( Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 ( Titrimetric Method)	NA	NA



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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000045093F

Report No. : HECSL/WT/128/190924

Sample ID No : 190924286

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	1192.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.48	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.055	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	26.73	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	10.26	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	50.20	HECS /WT/SOP/002:: 2019	NA	NA
19	pH at 25°C	-	7.44	IS 3025(Part 11) : 2022 ( Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	10.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	3.30	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	118.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000045093F

Report No. : HECSL/WT/128/190924

Sample ID No : 190924286

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO <sub>4</sub>	mg/l	85.14	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	160.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	656.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	4.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	0.049	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ (LOQ: 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	240.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	2.4	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000045093F

Report No. : HECSL/WT/128/190924

Sample ID No : 190924286

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Near Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : IS 17614(Part-1):2021

Report No : HECSL/WT/128/190924/N

Sample ID No : 190924286

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 ( Diphenyl Carbazide method)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l - Milligrams per liter.

\*\*\*End of Report\*\*\*



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**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Nemmili

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0

Sampling Method &amp; Plan : IS 17614(Part-1):2021

ULR : TC1231024000045094F

Report No. : HECSL/WT/129/190924

Sample ID No : 190924287

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
<b>Discipline : Chemical</b>					
1	Ammonia as NH <sub>3</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	95.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD) <sub>5</sub> at 27°C For 3 days	mg/l	3.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 ( Curcumin Method)	NA
5	Calcium as Ca	mg/l	18.04	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	24.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	36.74	IS 3025 Part 32: 1988 ( Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.0	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	340.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition Method 4500 F B.D: 2017	1.5
12	Iron as Fe	mg/l	0.12	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO <sub>3</sub>	mg/l	5.18	APHA 23rd edition Method 4500 NO3B: 2017	20

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### TEST REPORT

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U/LR : TC1231024000045094F  
Report No. : HECSL/WT/129/190924  
Sample ID No : 190924287  
Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Lake Near Nemmili  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	7.91	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	187.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B, C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	9.72	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	33.03	HECSG /WT/SOP/002 Issue No:01 Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	0.041	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	2.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	0.94	IS 11624: 2019	NA



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### TEST REPORT

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ULR : TC1231024000045094F  
Report No. : HECSL/WT/129/190924  
Sample ID No : 190924287  
Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Nemmili

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0

Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	20.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO <sub>4</sub>	mg/l	15.39	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO <sub>3</sub>	mg/l	95.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO <sub>3</sub>	mg/l	85.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	BLQ (LOQ: 0.02)	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	5.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	2.7	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT  
Address of the Client : Nemmili  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Lake Near Nemili  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

UIR : TC1231024000045094F  
Report No. : HECSL/WT/129/190924  
Sample ID No : 190924287  
Sampling Date : 19/09/2024

Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	15

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client	: M/s. SIPCOT	Report No.	: HECSL/WT/129/190924/N
Address of the Client	: Nemmili	Sample ID No.	: 190924287
Group	: Water	Sampling Date	: 19/09/2024
Sample Name	: Surface Water (All)	Received Date	: 19/09/2024
Sample Mark	: Lake Near Nemili	Commenced Date	: 19/09/2024
Sample Reference	: NA	Completed On	: 25/09/2024
Sample Drawn By	: M/s. Hubert Enviro care Systems (P) Ltd.	Report Date	: 25/09/2024
Sample Location	: NA	Sample quantity	: 1 Litres
Environmental Condition	: Temperature (°C) : 29.0   Humidity (%) : 51.0		
Sampling Method & Plan	: IS 17614(Part-1):2021		

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l - Milligrams per liter.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Chembarambakkam Lake

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0

Sampling Method & Plan : IS 17614(Part-1):2021

U/LR : TC1231024000045095F

Report No. : HECSLAWT/130/190924

Sample ID No : 190924288

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH <sub>3</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	60.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	2.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 ( Curcumin Method)	NA
5	Calcium as Ca	mg/l	17.63	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	20.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	53.89	IS 3025 Part 32: 1988 ( Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.1	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	348.0	IS 3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition Method 4500 F-B,D: 2017	1.5
12	Iron as Fe	mg/l	0.22	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO <sub>3</sub>	mg/l	3.41	APHA 23rd edition Method 4500 NO3B: 2017	20

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### TEST REPORT

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UIR : TC1231024000045095F  
Report No. : HECSL/WT/L30/190924  
Sample ID No : 190924288  
Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Chembarambakkam Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	7.78	IS 3025 Part 11: 2022 ( Electrometric Method)	8.5
15	Total dissolved solids	mg/l	196.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B, C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	8.74	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	41.92	HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.0010)	IS 3025 Part 43-Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	0.13	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	3.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	1.36	IS 11624: 2019	NA



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ULR : TC1231024000045095F  
 Report No. : HECSL/WT/130/190924  
 Sample ID No : 190924288  
 Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Water  
 Sample Name : Surface Water (All)  
 Sample Mark : Chembarambakkam Lake  
 Sample Reference : NA  
 Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
 Sample Location : NA  
 Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0  
 Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 19/09/2024  
 Commenced Date : 19/09/2024  
 Completed On : 25/09/2024  
 Report Date : 25/09/2024  
 Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 - Class-A)
26	Sodium as Na	mg/l	28.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO <sub>4</sub>	mg/l	27.69	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO <sub>3</sub>	mg/l	60.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO <sub>3</sub>	mg/l	80.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	0.039	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	10.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	4.1	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001



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### TEST REPORT

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ULR : TC1231024000045095F  
Report No. : HECSL/WT/130/190924  
Sample ID No : 190924288  
Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT  
Address of the Client : Nemmili  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Chemharambakkam Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 - Class-A)
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	15

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client	: M/s. SIPCOT	Report No.	: HECSL/WT/130/190924/N
Address of the Client	: Neimili	Sample ID No	: 190924288
Group	: Water	Sampling Date	: 19/09/2024
Sample Name	: Surface Water (All)	Received Date	: 19/09/2024
Sample Mark	: Chembarambakkam Lake	Commenced Date	: 19/09/2024
Sample Reference	: NA	Completed On	: 25/09/2024
Sample Drawn By	: M/s.Hubert Enviro care Systems (P) Ltd.	Report Date	: 25/09/2024
Sample Location	: NA	Sample quantity	: 1 Litres
Environmental Condition	: Temperature (°C) : 29.0   Humidity (%) : 51.0		
Sampling Method & Plan	: IS 17614(Part-1):2021		

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l - Milligrams per liter.

\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

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## Laboratory Services Division

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



### TEST REPORT

Page : 1 of 2

ULR : TC1231024000045078F

Report No. : HECS/PE/044/190924

Sample ID No : 190924290

Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Project Area

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	31.60	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	9.21	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	21.90	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Silty clay loam	FAO of United Nations, Rome Chapter - III 2008.
6	Soil Texture i)Sand	%	13.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	42.6	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	44.2	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.34	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	148.0	IS 34767: 2000



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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Project Area

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000045078F

Report No. : HECS/PE/044/190924

Sample ID No : 190924290

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.12	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.73	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	1.26	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	17.64	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0142	IS 14684 Clause 4-1999
17	Exchangable Calcium as Ca	mEq/L	7.48	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	12.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	4.2	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	20.6	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram ,  
% - Percentage.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(AH)

Sample Mark : Project Area

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/044/190924/N

Sample ID No : 190924290

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	154.92	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	2.52	Inhouse method
3	Infiltration Rate	cm/hr	4.8	Inhouse method
4	Moisture	%	5.48	HECS-G/ENV/SSW/SOP/003 Issue No. 01 Issue Date:02-07-2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram .

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 2

U/LR : TC1231024000045079F  
Report No : HECS/PE/045/190924  
Sample ID No : 190924291  
Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmill

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Panjamathangal

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	26.44	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	6.82	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	26.81	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	19.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	43.2	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	37.6	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.08	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	170.0	IS 14767: 2000



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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Panjamathangal

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

U.I.R : TC1231024000045079F

Report No. : HECS/PE/045/190924

Sample ID No : 190924291

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	0.96	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.68	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	1.18	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	17.24	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0125	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.12	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	8.24	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.3	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	24.6	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram ,  
% - Percentage.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Panjamathangal

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/045/190924/N

Sample ID No : 190924291

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	152.30	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	5.26	Inhouse method
3	Infiltration Rate	cm/hr	6.2	Inhouse method
4	Moisture	%	6.12	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02-07- 2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram .

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 2

ULR : TC1231024000045080F  
Report No. : HECS/PE/046/190924  
Sample ID No : 190924292  
Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Valapuram

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	26.91	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.10	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	28.17	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	19.6	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	37.8	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	42.6	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.02	IS 2720 (Part - 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	240.0	IS 14767: 2000



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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Valapuram

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000045080F

Report No : HECS/PE/046/190924

Sample ID No : 190924292

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.12	FAO of United Nations Rome - 2007
12	Organic Carbon	%	0.41	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.72	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	15.94	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0128	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	7.12	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	8.42	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	2.3	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	26.8	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram ,  
% - Percentage.

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Nemmilli  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : Valapuram  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0  
Sampling Method & Plan : ICARDA:2013  
Report No. : HECS/PE/046/190924/N  
Sample ID No : 190924292  
Sampling Date : 19/09/2024  
Received Date : 19/09/2024  
Commenced Date : 19/09/2024  
Completed On : 25/09/2024  
Report Date : 25/09/2024  
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	157.12	HECS-G/NS/SOP/ 042
2	Iron	mg/kg	2.56	Inhouse method
3	Infiltration Rate	cm/hr	5.5	Inhouse method
4	Moisture	%	4.54	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02-07: 2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram .

\*\*\*End of Report\*\*\*



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### TEST REPORT

Page : 1 of 2

ULR : TC1231024000045081F  
Report No : HECS/PE/047/190924  
Sample ID No : 190924293  
Sampling Date : 19/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Nennilli

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Thandalam

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	31.94	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	4.19	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	34.10	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Silty clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	11.7	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	48.8	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	39.5	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.54	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	180.0	IS 14767: 2000



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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Thandalam

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000045081F

Report No. : HECS/PE/047/190924

Sample ID No : 190924293

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.02	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.54	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.94	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	19.56	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0155	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.54	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	6.34	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	2.2	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	23.6	IS 14765: 2000
21	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram ,  
% - Percentage.

\*\*\*End of Report\*\*\*



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Authorized Signatory

## Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in

## Laboratory Services Division

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

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Thandalam

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/047/190924/N

Sample ID No : 190924293

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	127.16	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	BLQ(LOQ 0.02)	Inhouse method
3	Infiltration Rate	cm/hr	5.4	Inhouse method
4	Moisture	%	4.12	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02/07/ 2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram .

\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



## Laboratory Services Division

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



### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000045082F

Report No : HECS/PE/048/190924

Sample ID No : 190924294

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	26.84	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	9.45	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	25.48	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Silty clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	13.1	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	56.2	FAO of United Nations, Rome Chapter - III 2008.
8	Soil Texture iii)Clay	%	30.7	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.04	IS 2720 (Part. 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	212.0	IS 14767: 2000



D.Anusuya  
Lab Manager  
Authorized Signatory



# Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



## Laboratory Services Division

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



### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmilli

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000045082F

Report No. : HECS/PE/048/190924

Sample ID No : 190924294

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	0.98	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.67	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	1.16	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	19.20	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0168	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	5.64	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	8.64	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	2.9	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	24.2	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	ppb	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

Notes:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram ,  
% - Percentage.

\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
Authorized Signatory

## Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
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## Laboratory Services Division

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Recognized by CPCB (MoEF & CC)  
BIS, FSSAI Notified Laboratory  
ISO 9001, 14001 & 45001 Certified.

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Pollution & Environment

Sample Name : Soil(AH)

Sample Mark : Anakaputhur

Sample Reference : NA

Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/048/190924/N

Sample ID No : 190924294

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 25/09/2024

Report Date : 25/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	131.19	HECS-G/INS/SOP/042
2	Iron	mg/kg	9.54	Inhouse method
3	Infiltration Rate	cm/hr	4.4	Inhouse method
4	Moisture	%	6.45	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02-07-2020

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilogram .

\*\*\*End of Report\*\*\*



D.Anusuya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



## Laboratory Services Division

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



### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Nemmili

Group : Atmospheric Pollution

Sample Name : Ambient Noise Levels (Excluding vibration)

Sample Mark : Noise

Sample Reference : NA

Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0

Sampling Method & Plan : IS 9989:1981

ULR : TC1231024000044594F

Report No. : HECS/AP/097/190924

Sample ID No : 190924289

Sampling Date : 19/09/2024

Received Date : 19/09/2024

Commenced Date : 19/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	50.2	42.1
2	Panjamathangal	49.7	41.5
3	Valapuram	50.8	43.2
4	Thandalam	50.5	42.4
5	Anakapathur	51.9	43.0

#### Noise Standards - CPCB:

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

- Note:**
1. Day Time shall mean from 6.00 am to 10.00 pm.
  2. Night Time shall mean from 10.00 pm to 6.00 am.

Remarks:- The noise level meets the requirement of CPCB Limits.

\*\*\*End of Report\*\*\*



Dr. Rajkumar Samuel  
Director Technical  
Authorized Signatory





05

CHENNAI

ADU/SOUTH

NOT

SDAY 22.06.2022

Note: Further details at <http://www.fisheries.karnataka.gov.in>  
O/o the EE-II(WS-M) Cell No:9948075600(-) from the Indian Citizens

Government of Karnataka  
**Department of Fisheries**  
Directorate of Fisheries, 2nd Floor, P  
Dr B.R. Ambedkar Veedi, Bengaluru-560 00  
Fax: 080-2286 4619 E-mail: dfo  
please visit ICMR website at  
[icmr.org.in](http://icmr.org.in)  
Sd/-  
Assistant Director-General (Admn.)

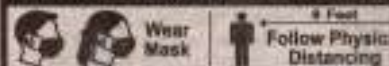
No: DOF-ALL/274/2021, E-649569

**Notification**

Applications are invited for the p  
Project Manager (01) and District  
and Multi Tasking Staff (01) posts  
and consolidated pay basis for a pe  
PMMSY. This may be further exte  
availability of funds. Last date  
application along with document  
further details visit o  
<http://fisheries.karnataka.gov.in>

DIPR/CP/1006/SHIRDI SAJ/2022-23

STAY PROTECTED FROM COVID-19. NO CARELESS

**EPIDEMIOLOGY (MAE)**

IC INTELLIGENCE  
PROGRAMME]  
Disease Control, Delhi

University, Uttarakhand  
on with  
Control and Prevention, Atlanta

**Application dates  
Programme**

advertisement published in this  
22, the last date of submitting  
amme has been extended up till  
etails & application form, please  
[www.ncdc.gov.in](http://www.ncdc.gov.in)



**MADHAVAN P**  
 595 / 600

**JOSHIKA B S**  
 588 / 600

**DHANUSH S**  
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OFFERED****Separate Air-conditioned  
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The Management congratulates and  
thanks all the Students, Parents and the  
Teaching faculties for the excellent results.



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Comprehensive  
Coaching for  
JEE/NEET

Katpadi-Ranipet Road, Brammapuram, Vellore-632014  
0416-2246784 / 2246785 / 73977 60449  
mail : [matric@shrishti.org](mailto:matric@shrishti.org) [www.shrishti.org](http://www.shrishti.org)

No. A  
C  
**DEPART**

Department of Commerce intends to engage tal  
contractual basis:

Position	Economics	Legal
Young professional	8	1
Associate	6	2
Consultant	7	1
Sr. Consultant	4	1
Total	25	5

Interested candidates may visit <https://commerce.karnataka.gov.in>  
last date of online submissions of application is 21  
dwp 05/01/1 UD002/2223

Quanta Express

THE SECRET OF  
GETTING AHEAD  
IS GETTING  
STARTED

**STATE INDUSTRIES PROMOTION  
CORPORATION OF TAMIL NADU LIMITED**

19-A, Rajmangal Lakshminpathy Road, Egmore, Chennai-600 008.

CIN U74999TN19715GC005867

Date: 21.06.2022

**SIPCOT INDUSTRIAL PARK AT NEMILI  
ENVIRONMENTAL CLEARANCE**

Environmental Clearance has been obtained for the proposed development of SIPCOT Industrial Park at Mannur and Nemili Villages, Srinembudur Taluk, Kanchipuram District, Tamil Nadu from State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide Letter No : SEIAA-TNF.7540/EC/05/035/2022 dated: 30.05.2022.

The Environmental Clearance (EC) letter can be downloaded from SIPCOT website [www.sipcot.in.gov.in](http://www.sipcot.in.gov.in). The Clearance Letter is available with the State Pollution Control Board and also in the website of SEIAA, TN. Further, copy of the EC shall be obtained from the Head Office/Project Office of SIPCOT.

DIPR/SSB/Disposal/2022

MANAGING DIRECTOR

"செழும்பு அடிப்படையில் தனிப்பட்டவர்கள், குழுவாக அல்லாமல் ஒன்றாக"





## Annexure - 6

Projects-I/Nemili/EC/Ad-Forward01/2022

Date: 08.07.2022

The Director  
Ministry of Environment, Forests and Climate Change,  
Integrated Regional Office, 1<sup>st</sup> Floor,  
Additional Office Block for GPOA, Shastri Bhavan,  
Haddows Road, Nungambakkam,  
Chennai - 600 006.

/RPAD/

Sir,

Sub: SIPCOT - Development of Industrial Park at Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District- Environmental Clearance (EC) granted by SEIAA - Advertisement Released in Newspaper Dailies - Copy of the Advertisement forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7640/EC/8(b)/835/2022 dated: 30.05.2022.

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA, TN for the proposed establishment of SIPCOT Industrial Park at Mannur & Nemili villages, Sriperumbudur Taluk, Kancheepuram District. As per condition stipulated in the EC, advertisement is released in a English Daily 'The Indian Express' of the Chennai edition dated 22.06.2022 and in a Tamil Daily 'Dinathanthi' of the Chennai edition dated 22.06.2022 for disseminating information of grant of EC.

The Newspaper Advertisement copies are enclosed for your kind perusal.

Yours faithfully,  
Sd/-  
MANAGING DIRECTOR

/Forwarded by Order/

Encl.: as above



GENERAL MANAGER (P-I)

Sir,  
re compared  
o/c  
stcl  
8/7/22



Projects-I/Nemili/EC/Ad-Forward02/2022

Date: 08.07.2022

✓ The Member Secretary,  
State Level Environmental Impact Assessment Authority,  
3rd Floor, Panagal Maligai,  
No.1. Jeenis Road,  
Saidapet, Chennai - 600 015.

/RPAD/

Sir,

Sub: SIPCOT - Development of Industrial Park at Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District- Environmental Clearance (EC) granted by SEIAA - Advertisement Released in Newspaper Dailies - Copy of the Advertisement forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7640/EC/8(b)/835/2022 dated: 30.05.2022.

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA, TN for the proposed establishment of SIPCOT Industrial Park at Mannur & Nemili villages, Sriperumbudur Taluk, Kancheepuram District. As per condition stipulated in the EC, advertisement is released in a English Daily 'The Indian Express' of the Chennai edition dated 22.06.2022 and in a Tamil Daily 'Dinathanthi' of the Chennai edition dated 22.06.2022 for disseminating information of grant of EC.

The Newspaper Advertisement copies are enclosed for your kind perusal.

Yours faithfully,  
Sd/-

MANAGING DIRECTOR

/Forwarded by Order/

GENERAL MANAGER (P-I)

Encl.: as above



Sir,  
Pc completed  
o/c  
Jd  
8/7/22

Project-5/Netmil/EC/Ad-Forwarded  
 प्राप्ति प्रमाण (सीट) ACKNOWLEDGEMENT 2022

एक दस्तावेज पर / पोस्टार्ड / पैकेट / पार्सल प्राप्त हुआ

Received a Registered Insured

प्राप्त हुआ था प्राप्त

Addressed to (Name)

प्राप्ति का स्थान (स्थान में)

Insured for Rupees

प्राप्ति का तारीख / Date of delivery

भारतीयक को काट दिया गया।

Score and the matter not required.

किस भी वस्तु के लिए।

For Insured articles only.



04-6

Nusambakaran

change.

The Director  
 Ministry of Environment  
 Forests and Climate

प्राप्त हुआ था प्राप्त / Signature of addressee

(68)

आर. पी. - 54

R. P.-54

13/7/21  
भारतीय डाक विभाग

DEPARTMENT OF POSTS, INDIA

ब्रह्मविष्णु



India Post

प्रेषक डाकघर  
की नाम मोहर

Name stamp of  
office of posting



तारीख-मोहर



Date-Stamp

भेजने वाले  
का पता

Sender's  
Address

STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LTD.

(A Govt. of TamilNadu Undertaking) P.B. No. 7223

19-A, RUKMANI LAKSHMIPATHY ROAD, EGMORE, CHENNAI.

पिन/PIN

6

0

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8

MGPCBE



Project-I / Nemili / Ec / Ad - Forward 02 /  
प्राप्ति स्वीकृति (रसीद) ACKNOWLEDGEMENT 2022

एक रजिस्ट्रेंड  
बीमा पत्र / पोस्टकार्ड / पैकेट / पार्सल प्राप्त हुआ

Received a Registered  
Insured Letter / Postcard / packet / Parcel

पाने वाले का नाम  
Addressed to (Name)

बीमा का मूल्य (रुपयों में)  
Insured for Rupees

वितरण की तारीख / Date of delivery ..... 20

अनावश्यक को काट दिया जाए।  
Score out the matter not required.

केवल बीमा वस्तुओं के लिए।  
For Insured articles only.

The Member Secretary  
STATE Level Environmental  
Impact Assessment Authority  
Saidapet - CH - 15



पाने वाले के हस्ताक्षर / Signature of addressee

आर. पी. 54  
R. P. 54

13/7/22

भारतीय डाक विभाग

DEPARTMENT OF POSTS, INDIA

बहुमूल्य डाक



Postage Stamp

तारीख-मोहर



Date-Stamp

प्रेषक डाकघर  
की नाम मोहर  
Name stamp of  
office of posting

15 JUL 2022

भेजने वाले  
का पता  
Sender's  
Address

STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LTD.

(A Govt. of TamilNadu Undertaking) P.B. No. 7223

19-A, RUKMANI LAKSHMIPATHY ROAD, EGMORE, CHENNAI.

पिन/PIN

6	0	0	0	0	8
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MGPCBE



# SIPCOT

Projects-I/EIA/Nemili/2022

Date: 20.06.2022

The President,  
Nemili Village Panchayat,  
Sriperumbudur Taluk,  
Kancheepuram District,  
Tamil Nadu.

Sir,

Sub: SIPCOT - Development of Industrial Park at Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District - Submission of Copy of Environmental Clearance issued by SEIAA - Reg.

Ref: EC Letter No. SEIAA-TN/F.7640/EC/8(b)/835/2022 dated 30.05.2022

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA for the proposed Development of Industrial Park at Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District over an extent of 92.66 Hectares (228.87 acres). The copy of Environmental Clearance is enclosed herewith for your kind perusal.

Yours faithfully,

Sd/-

MANAGING DIRECTOR

/Forwarded by Order/

GENERAL MANAGER (P-I)

Encl: As above.

Copy to:

The Project Officer,  
SIPCOT Industrial Park,  
Sriperumbudur.

தலைவர்  
நெ.51, நெமிலி ஊராட்சி  
திருப்பெரும்புத்தூர் ஒன்றியம்

*[Signature]*  
5.7.2022

**State Industries Promotion Corporation of Tamil Nadu Limited**

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

Regd. Office : 19-A, Rukmani Lakshmipathy Road, Post Box No.7223, Egmore, Chennai - 600 008.





## SIPCOT

Projects-I/EIA/Nemili/2022

Date: 20.06.2022

The President,  
Mannur Village Panchayat,  
Sriperumbudur Taluk,  
Kancheepuram District,  
Tamil Nadu.

/By Post/

Sir,

Sub: SIPCOT - Development of Industrial Park at Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District - Submission of Copy of Environmental Clearance issued by SEIAA - Reg.

Ref: EC Letter No. SEIAA-TN/F.7640/EC/8(b)/835/2022 dated 30.05.2022

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA for the proposed Development of Industrial Park at Mannur and Nemili Villages, Sriperumbudur Taluk, Kancheepuram District over an extent of 92.66 Hectares (228.87 acres). The copy of Environmental Clearance has been enclosed here with for your kind perusal.

Yours faithfully,  
Sd/-  
MANAGING DIRECTOR

/Forwarded by Order/

GENERAL MANAGER (P-I)

Encl: As above.

Copy to:

The Project Officer,  
SIPCOT Industrial Park,  
Sriperumbudur.

V. A. S.

**State Industries Promotion Corporation of Tamil Nadu Limited**

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

Regd. Office : 19-A, Rukmani Lakshmi Pathy Road, Post Box No.7223, Egmore, Chennai - 600 008.

The screenshot displays the SIPCOT website interface. The top navigation bar includes links for Home, About Us, Why SIPCOT?, Land Information, Industrial Parks, Special Projects, Tenders, Resources, Login, and Contact Us. Below this, a table lists various industrial parks. The row for 'Nemili' in 'Kancheepuram' is highlighted with a green border. Each row includes a serial number, the park name, the district, and a 'Download' link. The footer contains the SIPCOT logo, 'Govt. of Tamil Nadu', and links for Newsletter, Mandatories, and Map. The Windows taskbar at the bottom shows the date as 12/11/2024 and the time as 12:11 PM.

Serial No.	Industrial Park Name	District	Action
29	Thoothukudi - II	Thoothukudi	<a href="#">Download</a>
30	Nemili	Kancheepuram	<a href="#">Download</a>
31	Marudhandapatti (Hosur Phase-IV)	Krishnagiri	<a href="#">Download</a>
32	Mambakkam	Kancheepuram	<a href="#">Download</a>
33	Theni	Theni	<a href="#">Download</a>
34	Virudhunagar	Virudhunagar	<a href="#">Download</a>
35	Nedumpall	Ranipet	<a href="#">Download</a>
36	A. Sathanur	Kallakurichi	<a href="#">Download</a>
37	Vaniyamallee	Thiruvallur	<a href="#">Download</a>
38	Varapatti	Coimbatore	<a href="#">Download</a>
39	Dharmapuri	Dharmapuri	<a href="#">Download</a>



CHIEF ENGINEER (O&amp;M-II)

# CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

Lr.No:CMWSSB/C.E(O&M)II/S.E(WWT&R) / 45 TTRO-KOY / SIPCOT / 2020-21, Dated:13.04.2020

To  
The Managing Director,  
SIPCOT,  
19-A, Rukmani Lakshmiipathi Road,  
Egmore,  
Chennai - 600 008.

Sub: CMWSSB - C.E(O&M-II) - S.E(W.W.T&R) - "Design, Build and Operate for 15 years (DBO) a 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) Plant at Koyambedu including supply, laying and maintenance of M.S. transmission main for conveying product water to various SIPCOT industries situated at Irungattukottai, Sriperumbudur and Oragadam" - Works Completed in all aspects - Inaugurated and Commissioned by the Hon'ble Chief Minister of Tamilnadu on 29.11.2019 - Supply of TTRO Water to the M/s. SIPCOT Industrial hub located at Irungattukottai, Pillaipakkam, Vallamvadagal, Sriperumbudur and Oragadam - Commenced from 18.12.2019 - Security deposit to be remitted --Requested - Reminder - Reg.

Ref: Lr.No. CMWSSB / C.E(O&M)II / S.E(WWT&R) / 45 TTRO-KOY / SIPCOT / 2019-20, Dated: 06.12.2019, 16.12.2019 & 24.01.2020.

\*\*\*\*\*

The work of "Design, Build and Operate for 15 years (DBO) a 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) Plant at Koyambedu including supply, laying and maintenance of M.S. transmission main for conveying product water to various SIPCOT industries situated at Irungattukottai, Sriperumbudur and Oragadam" has been completed in all aspects and has been inaugurated & commissioned by the Hon'ble Chief Minister of Tamilnadu on 29.11.2019. The supply of TTRO product water to the M/s SIPCOT industries located at Irungattukottai, Pillaipakkam, Vallamvadagal, Sriperumbudur and Oragadam from Koyambedu TTRO plant was commenced from 18.12.2019 onwards.

In this connection, it is submitted that, the request for remittance of security deposit for an amount of Rs.2.045 Crores towards the supply of TTRO product water to M/s SIPCOT industries from Koyambedu TTRO plant has been made since 06.12.2019 and further reminders were made vide under references cited.

In this connection, it is submitted that the requisite security deposit amount has not been remitted till date, inspite of continuous follow up with officials of M/s SIPCOT.

As CMWSSB is facing financial crunch for the past more than 5 years with the deficit of about Rs.300 Crores, it is very difficult to manage to remit the Electricity consumption charges of about Rs.1.5 Crores per month towards operation of TTRO plant & Intermediate storage Pumping Stations.

Hence it is requested to cause necessary instructions to the officials to expedite the remittance of security deposit of Rs.2.045 Crores immediately through RTGS/NEFT.

This is submitted for favour of information and requested for early action in this regard.

CHIEF ENGINEER (O&M-II)



பாசனம் - ஸ்கீமா மாவட்டம் - திருப்பெரும்புளூர் வட்டம் - இருக்காட்டுக் கோட்டை கிராமம் - அப்போட் தொழில் வளாகத்தில் அமைந்துள்ள தொழிற்சாலை எலக்ட்-செம்பரம்பாக்கம் ஏரியிலிருந்து ஓடும் மறிமம் நிலங்களுக்கு நீர்ப்பாசனம் போக எஞ்சிய நீரில் 5 மில்லியட் கன அடங்குமீர் - வழங்குதல் - ஆணை வெளியிடப் படுகிறது.



பொதுப்பணி (பூர்வீக) துறை

அரசு ஆணை (நிலை) : 134

தாள்: 31.3.1997

பலக்கடி:

24/4

1. மேலாண்மை இயக்குநர், அப்போட் தேர்வுக் கமிட்டி என். 1026/96 தாள்: 2.9.1996.
2. தலைமைப்பொறியாளர், நீர்வள ஆதார அமைப்பு, சென்னை மண்டலம், கிரெட்டிவா ஓடும் வழங்கல் ஒன்றை கமிட்டி என். பி.பி. 1/5250/96, தாள்: 24.12.1996.

...

பாரிவை 1ல் கட்ட கமிட்டியில் அப்போட், மேலாண்மை இயக்குநர் இருக்காட்டுக் கோட்டை அப்போட் தொழில் வளாகத்திற்கு, அங்கு அமையவுள்ள - உதட்டாய் காரி தொழிற்சாலைக்கு தேவையான 1.1 மில்லியட் கன அடி தண்ணீர் உட்பட மொத்தம் சுமார் 10 மில்லியட் கன அடி தண்ணீர் தேவை என்பது கேட்டுக் கொண்டுள்ளது.

2. பாரிவை 2ல் கட்ட கமிட்டியில் தலைமைப்பொறியாளர் நீர் வள ஆதார அமைப்பு சென்னை மண்டலம் மறிமம் கிரெட்டிவா ஓடும் வழங்கல் திட்டம், கட்டிட காலக்காலில் செம்பரம்பாக்கம் ஏரியில் உள்ள நீர் நிலை ஒரே சீராகவும், 1992ம் ஆண்டு 485 மில்லியட் கன அடியாகவும் 1980ம் ஆண்டு 711 மில்லியட் கன அடியாகவும், 1992ம் ஆண்டு 485 மில்லியட் கன அடியாகவும் 1996ம் ஆண்டு 2401 மில்லியட் கன அடியாகவும் இருந்திருந்தன. குறிப்பிட்டுள்ளார். மேலும் பதிவு செய்யப் பட்டுள்ள 13,223 ஏக்கர் ஆய்க்கட்டுகளில் தற்போது விவசாயம் செய்யப்பட்டு வரும் 9800 ஏக்கர் நிலங்களுக்கு நீர்பாசனம் செய்தாக வேண்டும் என்ற நிலை உள்ளது என்பது குறிப்பிட்டுள்ளார். மேலும் இத்தோடு சென்னை மாநகருக்கு இடிதண்ணீர் வசதியும் செம்பரம்பாக்கம் ஏரியிலிருந்து வழங்க வேண்டியிருப்பதால் நீர் இருப்பை கருத்தில் கொண்டு தாள் தண்ணீர் வழங்க வேண்டும் என்ற குறிப்பிட்டுள்ளார்.

3. தலைமைப்பொறியாளர் (சென்னை மண்டலம் மறிமம் கிரெட்டிவா ஓடும் வழங்கல் திட்டம்) டி கமிட்டிக்கு கமிட்டிக்கு கொட்டு அப்போட் தொழில் வளாகத்திற்குச் செயற்குறிப்பை அரசு பரிசீலித்தது.

செம்பரம்பாக்கம் ஏரியில் நீர் இருப்பிற்கான, பதிவு செய்யப் பட்ட ஆய்க்கட்டு பகுதிகளுக்கான தேவையான தண்ணீர் மறிமம் சென்னை நகருக்கு ஓட்டிக்குத் தேவையான கிரெட்டிவா பூரித்த செய்து பதி செம்பரம்பாக்கம்



புறக்கணிப்பு / அபிப்பிராயம் / கமிட்டி அங்கீகரிக்கப்பட்டது.

Handwritten signature and date 24/4.

Handwritten signature and date 24/4.

Handwritten text: 'Madam, Secretary, Chennai'.

① AEE. Pl. Send a copy of this to SIPWT, GM (Tirumangal) for information.



ஏற்பட்டது. நான் ஒட்டுக்கு 5 பீஸ்கள் என ஒரு சிப்போட் தொழில்  
வளாகத்திற்கு வழங்குவதற்கு அரசு உடனடி நடவடிக்கை மேற்கொண்டிருக்கிறது. மேற்கண்ட வளாகத்திற்கு  
நிறைவேற்றியுள்ள சிப்போட் தொழில் வளாகத்திற்கு பொதுப்பணித்துறையின் புதிய  
நிபந்தனைகளுக்கு உட்பட்டு ஒப்பந்தத்தில் கையொப்பப்பட்ட பின்வருமாறு தீர்  
வுறங்க வேண்டும் எனத் தவணைப்பொறுதியாளர் சென்னை மண்டலம் மற்றும்  
சிஞ்சுதா குடிநீர் வழங்கல் திட்டம் அறிவித்தப்படுகிறது.

(ஆதாரம் துணைப்படி)

செ.பி. குப்பா,  
அரசு செயலர்.

பெயர்:

தவணைப்பொறுதியாளர்,  
தீர்மான ஆதார துணைப்படி, சென்னை.5.

தவணைப்பொறுதியாளர்,  
தீர்மான ஆதார துணைப்படி,  
சென்னை மண்டலம் மற்றும் சிஞ்சுதா குடிநீர்  
மற்றும் வழங்கல் துறை,  
✓ மேலாண்மையுடைய தீர்மான,  
தமிழ்நாடு தொழில் வளர்ச்சி துறை,  
19 ஏ. ரூ.யில் வட்டியுடைய ரோடு,  
எழும்பூர், சென்னை.8.  
கொண்ட சட்டியர், துணை மாண்டலம்.

நகல்:

தொழில்நுறை சென்னை.5  
நகராட்சி தீர்மானம் மற்றும் குடிநீர் வழங்கல் துறை,  
சென்னை.5.

/துணைப்படி/அறிவிப்புகள்/

பி. ச. சுவாமிநாதன்  
புதிது செயலர் 3/4/97



# State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

## **TO WHOM SO EVER IT MAY CONCERN**

Ref. No.: SIPCOT/CW/SE/Nemili&Mambakkam/Water Supply/2020 Dated: 03.12.2020

Sub: SIPCOT - CW - SE - Establishment of Industrial Park, Nemili & Mambakkam - Obtaining Environmental Clearance - Supply of Required Water to the Proposed Industrial Parks - Allocation of TTRO & Fresh Water from the Existing TTRO Water and Fresh Water Source Schemes - Reg.

- Ref: 1. Nemili - TOR - Lr.No. SEIAA-TN/F.No.7640/SEAC/8(b)/ToR-764/2020  
Dt. 23.09.2020  
2. Mambakkam TOR - Lr.No. SEIAA-TN/F.No.7652/SEAC/8(b)/ToR-766/2020  
Dt. 23.09.2020

\*\*\*\*\*

SIPCOT is in the process of obtaining Environmental Clearance for the establishment of proposed Industrial Parks at Nemili (Irungattukottai scheme) and Mambakkam (Sriperumbudur Scheme) from SEIAA, Chennai. The total fresh water requirement for the proposed parks are mentioned below.

S.No.	Water Source	Nemili (in KLD)	Mambakkam (in KLD)
1.	TTRO	1159	1128
2.	Raw Water	200	200
Total Fresh Water Requirement		1359 (Say 1.4 MLD)	1328 (Say 1.4 MLD)

In this regard, it is informed that Government of Tamil Nadu has established 45 MLD TTRO plant at Koyembedu (scalable to 60 MLD) through CMWSSB Board exclusively to meet out the Industrial water requirement of five SIPCOT Industrial Parks viz. Irungattukottai, Sriperumbudur, Oragadam, Pillaipakkam and Vallam Vadagal. The TTRO water is being supplied with effect from 27.12.2019 upon commissioning of this 45 MLD TTRO Plant.





# State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

/2/

The allocation of TTRO water for the existing SIPCOT Industrial Parks as follows.

S.No.	SIPCOT Industrial Parks / Complexes	TTRO Water allocation
1.	Irungattukottai	8 MLD
2.	Sriperumbudur	9 MLD
3.	Oragadam	13 MLD
4.	Pillaipakkam	4.5 MLD
5.	Vallam Vadagal Phase-I	6.8 MLD
6.	Aerospace	1.2 MLD
<b>Total</b>		<b>42.5 MLD</b>

Out of 9 MLD TTRO water allocated to Sriperumbudur, only 3 MLD is utilized by the allotted industries at SIPCOT Industrial Park at Sriperumbudur and 6 MLD of TTRO water is available as surplus. Of which 2.4 MLD shall be allocated towards the TTRO water requirement of Industrial Parks at Nemili and Mambakkam.

The original system of supplying fresh water from Chembarambakkam lake (Total allocation of 10 MGD (or) 45.46 MLD) is being utilized to meet out the fresh water requirement of the above mentioned SIPCOT Industrial Parks. Fresh water requirement for the above mentioned Industrial Parks is of meager quantity. Hence the fresh water requirement for the proposed Nemili and Mambakkam Industrial Parks shall be allocated from the existing system.

The required quantity of TTRO and Fresh water for the proposed SIPCOT Industrial Park at Nemili & Mambakkam can be supplied from the above sources by developing necessary infrastructure for conveyance from the existing Industrial Parks.

  
SUPERINTENDING ENGINEER

**SIPCOT – NEMILI**  
**MONITORING PHOTOGRAPHS**

**AMBIENT AIR QUALITY MONITORING PHOTOS:**

**NEAR PROJECT AREA**



**PANJAMATHANGAL**



**NEAR VALAPURAM**



## THANDALAM



## NEAR ANAKAPUTHUR



## GROUND WATER SAMPLING PHOTOS

NEAR PROJECT AREA	ANAKAPUTHUR
A photograph of a person in a red shirt and dark pants standing next to a blue wall, holding a white container to collect water from a small tap. The date '19/09/2024' is printed in the bottom right corner.	A photograph of a person in a striped shirt and blue jeans bending over to collect water from a small tap into a white container. The date '19/09/2024' is printed in the bottom right corner.



NEAR VALAPURAM	
	

**NOISE SAMPLING PHOTOGRAPH**

NEAR PROJECT AREA	THANDALAM
	
PANJAMATHANGAL	NEAR ANAKAPUTHUR
	

**NEAR VALAPURAM**



**SOIL MONTORING PHOTOGRAPH**

**NEAR PROJECT AREA**



**THANDALAM**



**PANJAMATHANGAL**



**NEAR ANAKAPUTHUR**



**NEAR VALAPURAM**



19/09/2024

**SURFACE WATER SAMPLING PHOTOGRAPH**

**NEMILI LAKE**



19/09/2024

**CHEMBARAMBAKKAM LAKE**



19/09/2024



SIPCOT - State Industries Promotion Corporation of Tamil Nadu

https://sipcotweb.tn.gov.in/Compliance\_Report

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## COMPLIANCE REPORTS

S.NO.	TITLE	DOWNLOAD
1	Compliance Report - Thervoy Kandigai for June 2024	<a href="#">Download</a>
2	Compliance Report - Pillaipakkam for June 2024	<a href="#">Download</a>
3	Compliance Report - Vallam Vadagal II for June 2024	<a href="#">Download</a>
4	Compliance Report - Vaipur Mathur for June 2024	<a href="#">Download</a>
5	Compliance Report - Aerospace Park for June 2024	<a href="#">Download</a>
6	Compliance Report - Cheyyar for June 2024	<a href="#">Download</a>
7	Compliance Report - Mansarai for June 2024	<a href="#">Download</a>
8	Compliance Report - Tindivanam for June 2024	<a href="#">Download</a>
9	Compliance Report - Manallur for June 2024	<a href="#">Download</a>
10	Compliance Report - Vallam Vadagal I for June 2024	<a href="#">Download</a>
11	Compliance Report - Thoonthukudi for June 2024	<a href="#">Download</a>
12	Compliance Report - Nemli for June 2024	<a href="#">Download</a>
13	Compliance Report - Mambakkam for June 2024	<a href="#">Download</a>
14	Compliance Report - Manudhindapalli for June 2024	<a href="#">Download</a>
15	Compliance Report - Theni for June 2024	<a href="#">Download</a>
16	Compliance Report - A.Sathanur for June 2024	<a href="#">Download</a>

12:22 PM 11/11/2024

12	Compliance Report - Nedumkudam for June 2024	<a href="#">Download</a>
13	Compliance Report - Mambakkam for June 2024	<a href="#">Download</a>
14	Compliance Report - Marudhandapalli for June 2024	<a href="#">Download</a>
15	Compliance Report - Theri for June 2024	<a href="#">Download</a>
16	Compliance Report - A.Sathanur for June 2024	<a href="#">Download</a>
17	Compliance Report - Nedumpuli for June 2024	<a href="#">Download</a>
18	Compliance Report - Virudhunagar for June 2024	<a href="#">Download</a>
19	Environmental Statement for the Financial Year - 2023 - 2024	<a href="#">Download</a>

**SIPCOT**  
Govt. of Tamil Nadu

19-A, RUKMANI LAKSHMIPATHY ROAD  
EGMORE, CHENNAI - 600 008.

☎ 044-45261777

✉ [tapals@sipcot.in](mailto:tapals@sipcot.in)



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## Map





**SIPCOT**

I/173595/2024

Date: 26-09-2024

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

Sir,


Sub: SIPCOT Industrial Park, Nemili - Environmental Statement for the Financial Year ending 31<sup>st</sup> March 2024 - Submitted - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7640/EC/8(b)/835/2022 dated 30.05.2022.

\*\*\*\*\*

With reference to the above, we hereby submit the Environmental Statement in Form-V as prescribed under the Environmental (Protection) Rules, 1986 and its subsequent amendment in respect of SIPCOT Industrial Park at Mannur and Nemili Villages in Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu for the Financial Year ending 31<sup>st</sup> March 2024.

Yours faithfully,

  
ASSISTANT GENERAL MANAGER (P-VI)

Encl: As above:

S I P C O T	<b>DESPATCHED</b>	
	01 OCT 2024	
	S.L. No. 46	Signature 
	PB	

**State Industries Promotion Corporation of Tamil Nadu Limited**

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

Regd. Office : 19-A, Rukmani Lakshmiipathy Road, Post Box No.7223, Egmore, Chennai - 600 008.

Phone : 45261777, Fax : 45261796 Website : www.sipcot.tn.gov.in