

# **HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT**

**For the period of April 2024 – September 2024**

**For**

**“Establishment of Industrial Park”**

**At**

**Pelakuppam, Venmaniyathoor, Kollar Villages of Thindivanam Taluk,  
Villupuram District, Tamil Nadu**

**EC OBTAINED Vide Letter No SEIAA-TN/F.6497/EC/8(b)/681/2019 dated: 27.11.2019**

**Submitted by**



**M/s. STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LTD,  
19/A, RukmaniLakshmipathy Road, Egmore, Chennai-600008.**

**Prepared by**



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**November 2024**

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## 1. PROJECT DETAILS

Name of the Project	SIPCOT Industrial Park, Thindivanam
Name of the Proponent	State Industries Promotion Corporation of Tamil Nadu Ltd.
EC. No	<b>SEIAA-TN/F.6497/EC/8(b)/681/2019 dated 27.11.2019</b> (Enclosed as <b>Annexure- 1</b> )
Area of the Land	291.60.5 Hectares
Water Requirement:	<ul style="list-style-type: none"><li>a) Total Water Requirement: 4 MLD</li><li>b) Source: 3 MLD Tertiary Treatment Reverse Osmosis (TTRO water) from Thindivanam Municipality.</li><li>c) 1 MLD for drinking water from Tamil Nadu Water Supply and Drainage Board (TWAD)</li></ul>
Project Cost	Rs. 300 Crores

## 2. LOCATION MAP



### 3. SITE PHOTOGRAPHS







#### 4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

##### **Part – A: Common Conditions Applicable for Pre construction, Construction and Operational Phase**

S. No.	Condition	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 on.	Construction shall be carried out as per the layout approval.
3.	The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.	SIPCOT shall comply with all the applicable conditions issued in the EC.
4.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State/Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.	All the member units will be instructed to obtain all necessary statutory clearances and approvals.

5.	The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.	Condition noted.
6.	A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.	Condition is being complied.
7.	The environmental statement for each financial year ending 31st March in Form- V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, 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 is being complied. Proof of dispatch of Form V to TNPCB and the screenshot of uploading the environmental statement in SIPCOT website is enclosed as <b>Annexure – 2 and Annexure – 9</b> respectively.
8.	The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite	Condition noted.
9.	"Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.	Consent to Establishment has been obtained from TNPCB. Copy of the same is enclosed as <b>Annexure-3</b> .
10	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.



11	The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble National Green Tribunal relating to the subject matter.	Condition Noted.
12	The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.	Condition Noted.
13	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.	Condition Noted.
14	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM 2.5, SO, NOX (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.	Condition is being complied. The compliance report including monitoring data has been uploaded on our website and screenshot is enclosed as <b>Annexure- 9</b> .

15	The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.	SIPCOT shall comply with all the applicable conditions issued in the EC.
16	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 or inadequate data for obtaining the environmental clearance.	Condition Noted. All the member industries will be instructed to obtain necessary approvals / clearances.
17	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.	Condition noted.
18	The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.	Condition Noted. All the member industries will be instructed to obtain necessary approvals / clearances.
19	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.	Condition noted.

20	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.	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-4</b> .
21	The EMP cost of Rs.1.5 Crores 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.
22	The project activity should not cause any disturbance & deterioration of the local bio diversity.	Condition Noted.
23	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.	Condition will be complied. Surface water quality monitoring report is enclosed as, <b>Annexure - 5</b> .
24	All the assessed flora & fauna should be conserved and protected.	Condition Noted.
25	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 O 1.01.2019 under Environment (Protection) Act, 1986.	Condition Noted. All the member units will be instructed to follow all applicable rules and guidelines.

26	As per MoEF & CC, GoI, 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 10 KM from National Park and Sanctuaries.	Not applicable.
27	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.	Condition will be complied.
28	The safety measures proposed in the report should be strictly followed.	Condition Noted. All the member units will be instructed to comply with.
29	The Developer shall ensure that no allotment letter/ sale deed in any form shall be made to house 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 Noted. If any EC category industry is proposed within the Industrial Park, Individual Industries will be mandated to obtain separate EC on their own.
30	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 Noted. All the member units will be instructed to comply with.
31	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. All the member units will be instructed to follow all applicable rules and guidelines.

32	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.	Condition Noted. All the member units will be instructed to follow all applicable rules and guidelines.
33	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 complied. Land use classification certificate obtained from DTCP.
34	The proponent shall obtain the necessary permission/ NOC of water supply from the TWAD Board/competent Authority.	Condition is being complied. Letter from TWAD Board is enclosed as <b>Annexure- 6.</b>
35	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.
36	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.
37	The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.	Condition Noted. All the member units will be instructed to comply with.
38	The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.	Condition will be complied.
39	Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.	SIPCOT have not proposed STP. All the member Industries will be mandated to provide STP and the treated sewage will be reused for their greenbelt.

40	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.	SIPCOT have not proposed STP. All the member industries will be mandated to treat the domestic sewage and reuse for greenbelt development. All the member units will be instructed to follow all applicable rules and guidelines.
41	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
42	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.	Condition Noted. All the member units will be instructed to follow all applicable rules and guidelines
43	There shall be no discharge of effluent outside the Industrial Park at any time.	All the member units will be instructed to comply with. All the member units will be mandated to adopt Zero Liquid Discharge
44	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.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.



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

<b>S.No</b>	<b>CONDITIONS</b>	<b>STATUS OF COMPLIANCE</b>
1.	The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.	Condition complied. Newspaper advertisement copy is enclosed as <b>Annexure-7A</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 and acknowledgement for the same is enclosed as <b>Annexure-7B</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.
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. Acknowledgement copy of clearance letter sent to local body is enclosed as <b>Annexure-8A</b> . The clearance letter also uploaded on SIPCOT website and it is enclosed as <b>Annexure-8B</b> .
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.	Condition Noted. Individual member units will be instructed to 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 through out the construction phase.	Condition Noted. All the member units will be instructed to comply with.
6.	Design of buildings should be in conformity with the Seismic Zone Classifications.	Condition Noted. 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.	Construction will be carried out as per the DTCP approved layout.
8.	No construction activity of any kind shall be taken up in the OSR area.	Condition 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.	Condition will be complied. Individual industries will be mandated to treat the Sewage as per the norms and reuse within their premises.
10.	The height and coverage of the constructions shall be in accordance with	Not applicable. The project site is away from the CRZ.
	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.	Not Applicable. The proposed project is an Industrial Park.
12.	The project proponent shall ensure the level of basement shall be above maximum flood level	Condition Noted. All the member units will be instructed to comply with.

13.	<p>The proponent shall prepare completion 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>	Conditions 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 will be instructed to 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	Greenbelt will be developed with indigenous native species.
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.	Condition will be complied.

19.	The Provisions of Forest conservation act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.	Condition noted. All the member units will be instructed to follow all applicable rules and guidelines.
20	There should be Firefighting plan and all required safety plan.	Condition will be complied. All the member units will be instructed to comply with.
21.	Regular fire drills should be held to create awareness among owners/ residents.	All the member units will be instructed to 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 laborers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.	Condition will be complied. 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 will be complied. All the member units will be instructed to comply with.

	<p>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.</p>	<p>Condition will be complied. All the member units will be instructed to comply with.</p>
<b>3.</b>	<b>Water Supply:</b>	
	<p>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 source.</p>	<p>Condition will be complied..</p>
	<p>ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Condition Noted.</p>
	<p>iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.</p>	<p>Condition will be complied. All the member units will be instructed to comply with.</p>
	<p>iv) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.</p>	<p>Condition will be complied. All the member units will be instructed to comply with..</p>

	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 will be complied. All the member units will be instructed to comply with..
<b>4.</b>	<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 will be instructed to 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, in a month from residences and disposed as per the SWM rules 2016.	All the member units will be instructed to follow all applicable rules and guidelines..
	iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles as per the solid waste management rules 2016.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
	iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
	v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
<b>5.</b>	<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 will be complied. All the member units will be instructed to comply with..
<b>6.</b>	<b>Construction Debris disposal:</b>	



	i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management rules, 2016.	Condition will be complied. All the member units will be Mandated to comply 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	Condition will be complied. All the member units will be instructed to comply with.
<b>7.</b>	<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.	All the member units will be instructed to follow all 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.	All the member units will be instructed to follow all applicable rules and guidelines
	iii) The acoustic enclosures installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.	All the member units shall comply with.
<b>8.</b>	<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.	Condition will be complied. All the member units will be instructed to comply with.
	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 is being complied. All the member units will be instructed to follow all applicable rules and guidelines. Ambient Air and Noise monitoring Reports are enclosed as <b>Annexure-5</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 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.	Condition will be complied. All the member units will be instructed to comply with.
	iv) The buildings should have adequate distance between them to allow free movement of fresh air	All the member units will be instructed to follow all applicable rules and guidelines.
<b>9.</b>	<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 all applicable rules and guidelines.

	ii) Ready-mix concrete shall alone be used in building construction and necessary cube- tests should be conducted ascertain their quality.	Condition will be complied. 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.	Condition will be complied. . All the member units will be instructed to follow all applicable rules and guidelines.
<b>10.</b>	<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 drain will be provided all along the internal roads. All the member units will be instructed to follow all applicable rules and guidelines.
	ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.	Condition noted.
<b>11.</b>	<b>Energy Conservation Measures:</b>	
	i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfil the requirement.	All the member units will be instructed to follow all applicable rules and guidelines.
	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 all 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 all 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 will be complied . 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.	All the member units will be instructed to follow all applicable rules and guidelines.
	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.	Condition will be complied. All the member units will be instructed to comply with.
<b>12.</b>	<b>Fire Safety:</b>	
	i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
	ii) Proper and free approach road for fire- fighting vehicles up to the buildings and for rescue in the event of emergency shall be made.	Condition will be complied. All the member units will be instructed to comply with.
<b>13.</b>	<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, Vilupuram 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 escapement may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot and in between blocks in an organized manner.	Condition will be complied. Greenbelt will be developed in minimum 33% of total developable area with indigenous native species.
	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.	Greenbelt will be developed as per the DTCP approved layout plan.
	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.
<b>14.</b>	<b>Sewage Treatment Plant:</b>	

	i) The Sewage Treatment Plant (STP) 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.	STP is not proposed by SIPCOT. Individual industries will be mandated to have STP/ETP as per the requirement and to reuse the treated wastewater as per the norms. All the member industries will be instructed to follow applicable rules and guidelines.
	ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.	STP is not proposed by SIPCOT. All the member industries will be instructed to follow applicable rules and guidelines.
	iii) The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.	STP is not proposed by SIPCOT. All the member industries will be instructed to follow applicable rules and guidelines.
	iv) The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.	STP is not proposed by SIPCOT. All the member industries will be instructed to follow applicable rules and guidelines.
	v) The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.	STP is not proposed by SIPCOT. All the member industries will be instructed to follow applicable rules and guidelines.
	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 shall comply with.
<b>15.</b>	<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.	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.	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.
<b>16.</b>	<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 industries will be instructed to follow applicable rules and guidelines.

## **5. ENVIRONMENTAL MONITORING DETAILS**

It is mandatory to submit six month compliance report of EC conditions to MoEF & CC Regional Office by the proponent. For the purpose of submitting Six-Monthly Compliance report, the environmental monitoring was carried out by M/s. Hubert Enviro Care Systems Pvt. Ltd an NABL Accredited Laboratory for the period of April 2024 – September 2024.

### **5.1 Ambient Air Quality monitoring**

During construction phase, particulate matter and gaseous emissions are likely to arise from the site movement of vehicles, operation of DG sets etc., the ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored. The test report of ambient air quality for the period of April 2024 – September 2024.is enclosed as **Annexure - 5**.

### **5.2 Ambient Noise level monitoring**

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of April 2024 – September 2024.is enclosed as **Annexure - 5**.

### **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 – September 2024 is enclosed as **Annexure - 5**.

### **5.4 Ground water quality monitoring**

Ground water was tested for various water quality parameters during the period of April 2024 – September 2024. The test report of ground water collected and analyzed is enclosed as **Annexure-5**.

### **5.5 Surface water quality monitoring**

The surface water was collected and tested for various water quality parameters during the period of April 2024 – September 2024.The test report of surface water collected and analyzed is enclosed as **Annexure-5**.

## 6. CONCLUSION

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



**Dr. RAJKUMAR SAMUEL**  
Director Technical

**Name:** Dr. Rajkumar Samuel

**Designation:** Director Technical

**Company Name:** Hubert Enviro

Care Systems Private Limited

# **Annexure**



**Dr. JAYANTHI. M, 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. 6497/EC/ 8(b)/ 681/2019 dated: 27.11.2019.**

To

The Managing Director

M/s. State Industries Promotion Corporation of Tamil Nadu Limited.

19-A, Rukmani Lakshmi pathy Road

Post Box No.7223

Egmore

Chennai-600 008

Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed establishment of Industrial Park at Thindivanam by M/s. State Industries Promotion Corporation of Tamil Nadu Limited at S.F. No. 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village, 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, Thindivanam Taluk, Villupuram District, Tamil Nadu - Issued – Regarding.

Ref: 1. Your application for Terms of Reference dated: 01.02.2018

2. ToR Issued by SEIAA-TN Vide Lr.No.SEIAA-TN/F.No.6497/2018/8(b)/ToR-506/2018 dated: 16.07.2018



*Jayanthi*  
**MEMBER SECRETARY**  
**SEIAA-TN**

3. EIA report submitted to SEIAA-TN on 05.04.2019
4. Minutes of the 133<sup>rd</sup> SEAC Meeting held on 25.07.2019
5. Proponent reply dated: 30.10.2019
6. Minutes of the 139<sup>th</sup> SEAC Meeting held on 23.11.2019
7. Minutes of the 362<sup>nd</sup> SEIAA Meeting held on 27.11.2019

\*\*\*\*\*

This has reference to your application 1<sup>st</sup> cited, the proposal is for obtaining Environmental Clearance to establish a construction project under Category B2 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 1 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 establishment of Industrial Park at Thindivanam
3)	Schedule No.	8(b)
4)	<b>Project Location</b>	
	i) Survey No	1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55,



*Jayen*  
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		56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village, 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar																																	
	ii)Revenue Village	Pelakuppam, Venmaniyathoor, Kollar Village																																	
	iii)Taluk	Thindivanam																																	
	iv)District	Villupuram																																	
5)	Area of the Land	291.60.5 Hectares																																	
6)	Built up Area																																		
	<table><tr><th>Sl.No.</th><th>Description</th><th>Area (Hectares)</th></tr><tr><td>1</td><td>Plot area</td><td>195.29</td></tr><tr><td>2</td><td>Roads and Storm water drainage</td><td>13.56</td></tr><tr><td>3</td><td>Common amenities (EB, Water storage, Fire Services, Administrative Office, etc.)</td><td>4.37</td></tr><tr><td>4</td><td>Commercial activities</td><td>14.57</td></tr><tr><td>5</td><td>Green Belt outside plot area (OSR)</td><td>26.81</td></tr><tr><td>6</td><td>Green Belt along roadside</td><td>3.51</td></tr><tr><td>7</td><td>Solid Waste Management</td><td>10.00</td></tr><tr><td></td><td><b>Total developable area</b></td><td><b>268.11</b></td></tr><tr><td></td><td>Water bodies (which will not be encroached)</td><td>23.49</td></tr><tr><td></td><td><b>Total IP area</b></td><td><b>291.60</b></td></tr></table>	Sl.No.	Description	Area (Hectares)	1	Plot area	195.29	2	Roads and Storm water drainage	13.56	3	Common amenities (EB, Water storage, Fire Services, Administrative Office, etc.)	4.37	4	Commercial activities	14.57	5	Green Belt outside plot area (OSR)	26.81	6	Green Belt along roadside	3.51	7	Solid Waste Management	10.00		<b>Total developable area</b>	<b>268.11</b>		Water bodies (which will not be encroached)	23.49		<b>Total IP area</b>	<b>291.60</b>	
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	<b>Total IP area</b>	<b>291.60</b>																																	
7)	Brief description of the project  The proposal is an infrastructure development project. It involves development of roads, water supply, storm water drainage, street lights, green belt																																		



*Jayaram*  
MEMBER SECRETARY  
SEIAA-TN

	<p>development, and such other amenities.</p> <p>Industrial Park will house industries which do not fall under EIA Notification 2009 and amendments thereof. The proposed industries include the following:</p> <ul style="list-style-type: none"> <li>• All General Engineering units such as fabrication, machining, forging, castings etc.,</li> <li>• Auto components Industries.</li> <li>• Food Processing Industries.</li> <li>• Packaging units.</li> </ul> <p>Any other industries that are not under the purview of EIA Notification, 2006</p>																			
8)	Land Use Classification	Patta dry land & Govt Poramboke Land																		
9)	Green Belt																			
	<table border="1"> <thead> <tr> <th>Sl.No.</th><th>Description</th><th>Area (Hectares)</th></tr> </thead> <tbody> <tr> <td>1.</td><td>By SIPCOT outside the plot area</td><td>58.59</td></tr> <tr> <td>2.</td><td>By SIPCOT along the Road sides and Central meridian</td><td>26.81</td></tr> <tr> <td>3.</td><td>By Member Industries (30 % of the total plot area allotted to Member Industries) i.e 30% of 195.29 Ha</td><td>3.51</td></tr> <tr> <td></td><td><b>Total</b></td><td>88.91</td></tr> <tr> <td></td><td>Percentage of Green Belt among Total developable Area of Industrial Park i.e 268.11 hectares</td><td>33.16%</td></tr> </tbody> </table>	Sl.No.	Description	Area (Hectares)	1.	By SIPCOT outside the plot area	58.59	2.	By SIPCOT along the Road sides and Central meridian	26.81	3.	By Member Industries (30 % of the total plot area allotted to Member Industries) i.e 30% of 195.29 Ha	3.51		<b>Total</b>	88.91		Percentage of Green Belt among Total developable Area of Industrial Park i.e 268.11 hectares	33.16%	
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	Percentage of Green Belt among Total developable Area of Industrial Park i.e 268.11 hectares	33.16%																		
10)	<b>UTILITIES-WATER</b>																			
	a) Total Water Requirements	4 MLD																		
	b) Source from where the water is proposed to be drawn	<p>3 MLD Tertiary Treatment Reverse Osmosis (TTRO) water from Thindivanam Municipality</p> <p>1 MLD for drinking water from Tamil Nadu Water Supply and Drainage Board (TWAD)</p>																		
	c) Sewage system	All member units will be mandated to																		



*Tayari*  
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		install "Zero Liquid Discharge" based Effluent Treatment Plants to reclaim water for recycle/reuse in their utilities and green belt development. The quantity of sewage that will be generated from SIPCOT administrative office will be managed in septic tank followed by soak pit .
	d) ETP & Recycle line	All member units will be mandated to install "Zero Liquid Discharge" based Effluent Treatment Plants to reclaim water for recycle/reuse in their utilities and green belt development.
11)	Solid Waste Management	Area of 10Ha has been earmarked for establishing a solid waste management facility SIPCOT will identify a TSDF provider and facilitate to establish such a treatment, storage and disposal facility(TSDF) in line with guidelines of CPCB & MoEF & CC Solid waste generated will be disposed to the approved Municipal Solid Waste Management or else SIPCOT will set up its facility through renowned agencies by outsourcing their services on annual contract basis
12)	Power requirement	50MW from TANGEDCO
13)	Project Cost	Rs. 300 Crores
14)	EMP Cost	For Operation Phase: Capital Cost –1 Crores,



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	Operation cost- 50 Lakhs per annum
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**Annexure 2- Affidavit**

The Proponent has furnished affidavit in Twenty Rupees stamp paper attested by the Notary stating that

I Thiru. J.Kumargurubaran, IAS, Managing Director, Authorised Signatory, represent M/s. State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT), 19-A, Rukmani Lakshmipathy Road, Egmore, Chennai - 600008.

We have proposed to establish an industrial park over an extent of 291.605 hectares at Pelakuppam, Kollar & Venmaniyathur villages of Tindivanam taluk, Villupuram district. An application submitted by us seeking Environmental Clearance under the EIA Notification, 2006 is under scrutiny in the Authority. I am furnishing the following undertaking to the Authority, hereby solemnly affirm and state as follows:-

1. we will develop Green belt in OSR areas and along the roadsides in 11.31 % of the total developable area of 268.11 hectares i.e 30.32 hectares. Further, we will also ensure the development of green belt in 30% of the allotted area by the member units i.e 58.59 hectares, which is 21.85% of total developable area. It will be made as a mandatory condition in the land allotment order as well as the lease deed to be executed between SIPCOT and allottees. The net area of green belt of the proposed industrial park in the post project scenario will be 88.91 hectares, which is 33.16% of the total developable area of the park.
2. We commit to SEIAA that the total water requirement for the park is 4 MLD out of which potable water would be around 1 MLD and the balance 3 MLD would be for non potable purposes. The required potable water will be obtained from Tamil Nadu Water Supply and Drainage Board (TWAD) and non potable water from Tertiary Treatment Reverse Osmosis (TTRO) plant to be setup at Tindivanam. SIPCOT is already in discussion with Commissioner of Municipal Administration (CMA) for setting up of TTRO plant. We assure that the required permission from the competent Authority for supply of water for entire period of operation will be obtained before applying for Consent for Operation (CTO) from Tamilnadu Pollution Control Board (TNPCB).



*Jayaram*  
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SEIAA-TN

3. We commit to SEIAA that all member units will be mandated to install "Zero Liquid Discharge" based Effluent Treatment Plants to reclaim water for recycle/reuse in their utilities and green belt development. We will mandate to member units to manage the sewage as per TNPCB norms. The solid waste stream will be sent to TNPCB approved vendors/TSDF for proper and ultimate disposal. The quantity of sewage that will be generated from SIPCOT administrative office will only be 1000 litres/day and it will be managed in septic tank followed by soak pit as onsite construction.
4. We commit to SEIAA that all member units will be mandated to provide rain water harvesting structures as per norms. SIPCOT will construct percolation tanks for harvesting the rainwater in the project office.
5. We commit to SEIAA that we will provide storm water drainage system as open concrete channels, all along the road side for ensuring proper collection of storm water and will let out in the nearby water bodies. We also assure that the storm water drain would not carry any untreated or treated sewage.
6. We commit to SEIAA that we will undertake CER activities as per norms with the approval of board of SIPCOT.
7. We also assure that our project site does not encroach any water bodies such as rivers, canals, nallas, lakes, ponds, tanks, etc., from its original boundary.
8. We are aware that we can be prosecuted under relevant Act and Rules, if we are not ensuring the adherence of the above commitment.

Commitment signed by me as an Authorized signatory of the Project Proponent before the SEIAA, Tamil Nadu.

The project activity is covered in 8(b) of the Schedule and is of B2 category. It does not require Public Consultation as per Para 7 III Stage (3) (i) (d) of EIA Notification, 2006.

The Authority after consideration all the requisite documents with status and data and based on SEAC appraisal and recommendations for issue of Environmental Clearance in its 139<sup>th</sup> meeting held on 23.11.2019, SEIAA placed the proposal in the



*Jayaram*  
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SEIAA-TN

362<sup>nd</sup> SEIAA meeting held on 27.11.2019 hereby conveyed 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:

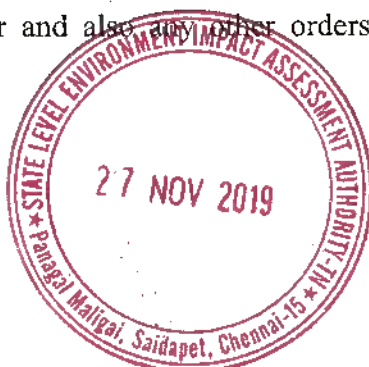
**Part - A – Common conditions applicable for Pre-construction, Construction and Operational Phases:**

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 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.
4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone



*Tayam*  
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SEIAA-TN

- Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
  6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
  7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, 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.
  8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
  9. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
  10. 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.
  11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme



  
MEMBER SECRETARY  
SEIAA-TN

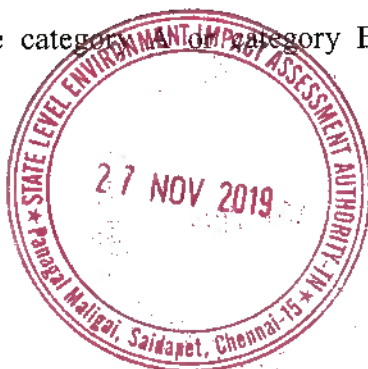


- Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.
12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
  13. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
  14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
  15. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
  16. 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.
  17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
  18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.



*Signature*  
**MEMBER SECRETARY**  
**SEIAA-TN**

19. 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.
20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
21. The EMP cost of Rs.1.5 Crores 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.
22. The project activity should not cause any disturbance & deterioration of the local bio diversity.
23. 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.
24. All the assessed flora & fauna should be conserved and protected.
25. 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.
26. As per MoEF & CC, GoI, 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.
27. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
28. The safety measures proposed in the report should be strictly followed.
29. 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



*Jagan*  
MEMBER SECRETARY  
SEIAA-TN

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.

30. 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.
31. 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.
32. 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.
33. 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.
34. The proponent shall obtain the necessary permission/ NOC of water supply from the TWAD Board/competent Authority.
35. The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.
36. The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
37. The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.
38. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
39. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.



*Jagan*  
MEMBER SECRETARY  
SEIAA-TN



40. 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.
41. 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,
42. 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
43. There shall be no discharge of effluent outside the Industrial Park at any time.
44. 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 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.



  
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**SEIAA-TN**

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.
  - 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



*Jayaprakash*  
MEMBER SECRETARY  
SEIAA-TN

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.
- 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.



*Jagan*  
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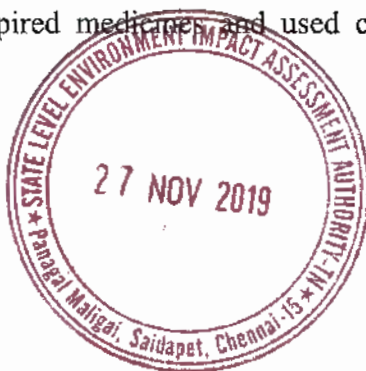
- iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, 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:

- 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



*Jayanti*  
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SEIAA-TN



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



*Jayanti*  
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**SEIAA-TN**

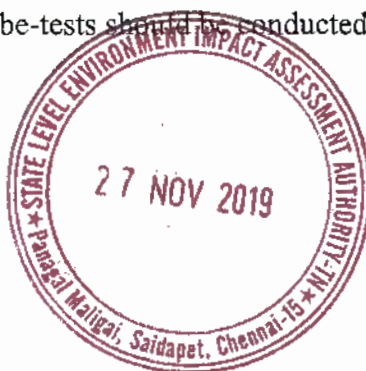
- ii) The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.
- iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets,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



*Jayaram*  
MEMBER SECRETARY  
SEIAA-TN

- 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:**

*Jayanti*  
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**SEIAA-TN**

- i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.
- 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, Viluppuram 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 escapement may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot and in between blocks in an organized manner
- 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:



*Jayan*  
MEMBER SECRETARY  
SEIAA-TN



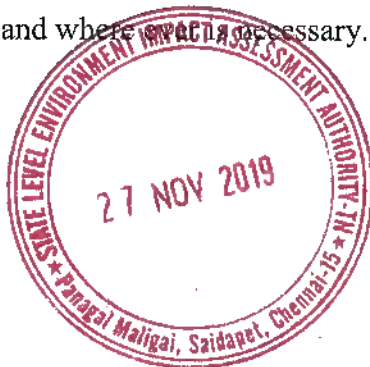
- i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.
- 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/ 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.
- 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 it is necessary.



*Jayaraj*  
MEMBER SECRETARY  
SEIAA-TN

**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.
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.



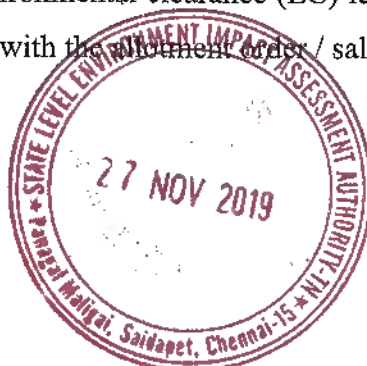
*Jayanti*  
**MEMBER SECRETARY**  
**SEIAA-TN**

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.
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 should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
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.



*Jayant*  
MEMBER SECRETARY  
SEIAA-TN

19. The Proponent shall operate 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.
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/ Owner of the Flats shall 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.



*Jagan*  
**MEMBER SECRETARY**  
**SEIAA-TN**



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.

  
MEMBER SECRETARY  
SEIAA-TN

**Copy to:**

1. The Principal 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), Regional Office, Ministry of Environment & Forest (SZ),  
34, HEPC Building, 1<sup>st</sup> & 2<sup>nd</sup> Floor, Cathedral Garden Road, Nungambakkam,  
Chennai - 34.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests,  
Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Viluppuram District
7. Stock File.



**SIPCOT**

I/173639/2024

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, Tindivanam - Environmental Statement for the  
Financial Year ending 31<sup>st</sup> March 2024 - Submitted - Reg.

Ref: SEIAA Lr. No. SEIAA-TN/F.6497/EC/8(b)/681/2019 dated 27.11.2019

\*\*\*\*\*

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 Pelakuppam, Venmaniyathoor and Kollar Villages in Tindivanam Taluk, Villupuram District, Tamil Nadu for the Financial Year ending 31<sup>st</sup> March 2024.

Yours faithfully,

DEPUTY GENERAL MANAGER (P-II)

Encl: As above.

**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.

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

**TAMILNADU POLLUTION CONTROL BOARD**

Category of the Industry :

**RED****CONSENT ORDER NO. 2101231962104****DATED: 16/03/2021.****PROCEEDINGS NO.T2/TNPCB/F.1357VPM/RL/VPM/A/2021 DATED: 16/03/2021**

**SUB:** TNPC Board-Consent for Establishment-M/s. SIPCOT INDUSTRIAL PARK AT THINDIVANAM, S.F. No. 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, PELAKUPPAM village, Tindivanam Taluk and Villupuram 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 19.06.2020/ 27-02-2021  
 2. IR.No : F.1357VPM/RL/AE/VPM/2020 dated 18/12/2020  
 3. Minutes of TSC Resolution No. 185-3 Dated 20.01.2021  
 4. Minutes of TSC Resolution No. 186-13 Dated 10.03.2021

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 AT THINDIVANAM

S.F No.181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, PELAKUPPAM Village, Tindivanam Taluk, Villupuram District.

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

S.F No. 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, PELAKUPPAM Village, Tindivanam Taluk, Villupuram District.

This Consent to establish is valid upto **March 31, 2026**, 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

**G. Gopalakrishnan**

**For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai**

Digitally signed by G. Gopalakrishnan  
DN: cn=G. Gopalakrishnan, o=Tamil Nadu Pollution Control Board, email=g.gopalakrishnan@tnpcb.org, c=IN  
Date: 2023.08.24 10:00:00 +05'30'

To  
The Managing Director,  
M/s.SIPCOT INDUSTRIAL PARK AT THINDIVANAM,  
State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT),  
No.19-A, Rukmani Lakshminipathy Road,  
Egmore, Chennai.,  
Pin: 600008

**Copy to:**

1. The Commissioner, MYLAM-Panchayat Union, Tindivanam Taluk, Villupuram District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, VILLUPURAM.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Vellore.
4. File







## 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.	SIPCOT Industrial Park at Thindivanam is an infrastructure development project which involves development of Industrial plots, development of roads, water supply, storm water drainage, street lights, green belt development and such other amenities.	291.60.5	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 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 Nm <sup>3</sup> /hr
<b>II Fugitive/Noise emission :</b>				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	

3. **Special Additional Conditions:**

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.

4. **Additional Conditions:**

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA-TN/F.6497/EC/8(b)/681/2019 Dated 27.11.2019.
2. The unit shall ensure that no process emission is let out from its activity.
3. The unit 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 within one month's time.
4. The unit shall install Continuous Ambient Air Quality Monitoring System (CAAQMS) stations in the downwind and upwind directions and shall connect the same to CAC, TNPCB, Chennai.
5. The unit shall provide odour control mechanism individually or through the member units for the containment of odour emitting from the industries.
6. The unit shall remit consent fee in case of revision by the Government.

**G. Gopalakrishnan**

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

Digitally signed by G. Gopalakrishnan  
DN: cn=G. Gopalakrishnan, o=Tamil Nadu Pollution Control Board, email=gopalakrishnan@tnpcb.org, c=IN  
Date: 2023.11.23 11:08:45 +05'30'





## 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.

**G. Gopalakrishnan**

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai





# TAMILNADU POLLUTION CONTROL BOARD

006354



Category of the Industry :

RED

CONSENT ORDER NO. 2101131962104

DATED: 16/03/2021

PROCEEDINGS NO.T2/TNPCB/F.1357VPM/RL//VPM/W/2021 DATED: 16/03/2021



**SUB:** TNPC Board-Consent for Establishment-M/S SIPCOT INDUSTRIAL PARK AT THINDIVANAM S.F No. 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, PELAKUPPAM Village, Tindivanam Taluk, Villupuram 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 19.06.2020/ 27-02-2021  
2. IR.No : F.1357VPM/RL/AE/VPM/2020 dated 18/12/2020  
3. Minutes of TSC Resolution No. 185-3 Dated 20.01.2021  
4. Minutes of TSC Resolution No. 186-13 Dated 10.03.2021

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 AT THINDIVANAM

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

S.F. No.181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, PELAKUPPAM Village, Tindivanam Taluk, Villupuram District.

This Consent to establish is valid upto **March 31, 2026**, 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.

**G. Gopalakrishnan**

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

To  
The Managing Director,  
M/s.SIPCOT INDUSTRIAL PARK AT THINDIVANAM,  
State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT),  
No.19-A, Rukmani Lakshminpathy Road,  
Egmore, Chennai.,



## TAMILNADU POLLUTION CONTROL BOARD

Pin: 600008

### Copy to:

1. The Commissioner, MYLAM-Panchayat Union, Tindivanam Taluk, Villupuram District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, VILLUPURAM.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Vellore.
4. File

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## 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.	SIPCOT Industrial Park at Thindivanam is an infrastructure development project which involves development of Industrial plots, development of roads, water supply, storm water drainage, street lights, green belt development and such other amenities.	291.60.5	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 x 2.3 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	0.13	On Industrys own land
<b>Effluent Type : Trade Effluent</b>			

- Additional Conditions:**





## TAMILNADU POLLUTION CONTROL BOARD

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA-TN/F.6497/EC/8(b)/681/2019 Dated 27.11.2019.
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 unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
4. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
5. The stability of the entire building/ STP does not falls under the purview of the TNPC Board.
6. The unit shall submit baseline data for ground water to assess the quality of ground water for 1 KM radius outside the boundary of the project and also inside available open wells within a month's time.
7. The unit shall monitor the ground water in and around the unit premises periodically, so as to assess its quality and submit the same to the Board.
8. The unit 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.
9. The unit shall obtain the necessary permission / NOC of water supply from the TWAD Board / competent Authority.
10. The unit 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.
11. The SIPCOT shall obtain NOC from competent authority for the withdrawal of 1 MLD of water from 50 Nos of open wells in its premises.
12. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
13. Compensation is to be paid for land acquisition as fixed by the District Collector and District Magistrate as civil liability.
14. The SIPCOT shall ensure that the allotted units are mandated to implement own sewage treatment system for treating and disposing the sewage and shall ensure that no treated / untreated sewage shall gain access outside the unit premises on land / water source under any circumstances.
15. The SIPCOT shall ensure that the allotted units not dig any well or bore well inside their premises for drawing of ground water.
16. The SIPCOT shall ensure that the allotted units are mandated that the water courses/pathai leading to the Water bodies located in the surroundings will not be disturbed and in this regard a condition shall be imposed in the allotment order to the member units.
17. The SIPCOT shall ensure that the allotted units are mandated that all the member industries to develop green belt in 35% of their allotted area.
18. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
19. The unit shall allot 5% (10 Hectare) of the total plot area (180.65 Hectare) for Solid Waste Management as reported in the unit's letter dated 26.02.2021.
20. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules,2016.
21. The project generating more than 20 tons of construction and demolition waste or more in one day or 300 tons per project in a month shall segregate the waste into four streams such as concrete, soil, steel, wood and plastics, bricks and mortar and keep the construction and demolition waste within the premise or get the waste deposited at collection centre so made by the local body or handover it to the authorised processing facilities of construction and demolition waste and ensure that there is no littering or deposition of construction and demolition waste so as to prevent obstruction to the traffic or the public or drains.
22. The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
23. The unit shall remit consent fee in case of revision by the Government.

**G. Gopalakrishnan**

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai





## TAMILNADU POLLUTION CONTROL BOARD

### GENERAL CONDITIONS

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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.

**G. Gopalakrishnan**

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

Digitally signed by G. Gopalakrishnan  
DN: cn=G. Gopalakrishnan, o=Tamil Nadu Pollution Control Board, email=gopalakrishnan@tnpcb.org, c=IN  
Date: 2023.08.24 10:10:10 +05'30'

## **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 : Tindivanam

Group : Atmospheric Pollution  
 Sample Name : Ambient Air(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) : 32.0 | Humidity (%) : 56.0  
 Sampling Method & Plan : IS 5182 Part 5 & Part 14

ULR : TC1231024000045594F  
 Report No. : HECS/AP/078/210924  
 Sample ID No : 210924156  
 Sampling Date : 21/09/2024

Received Date : 21/09/2024  
 Commenced Date : 21/09/2024  
 Completed On : 27/09/2024  
 Report Date : 27/09/2024  
 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	6.70	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	11.98	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	52.35	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	19.82	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	10.14	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 : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(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) : 32.0 | Humidity (%) : 56.0

Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/078/210924/N

Sample ID No : 210924156

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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,  
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**Laboratory Services Division**(Chemical & Biological Testing)  
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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 : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Botheri

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 &amp; Plan : IS 5182 Part 5 &amp; Part 14

ULR : TC1231024000045595F

Report No. : HECS/AP/079/210924

Sample ID No : 210924157

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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	7.93	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	20.78	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m3	13.51	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m3	53.84	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m3	22.30	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m3	14.92	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.

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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 : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Botheri

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 5182 Part 5 & Part 14

Report No. : HECS/AP/079/210924/N

Sample ID No : 210924157

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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



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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 : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AH)

Sample Mark : Agoor

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 &amp; Plan : IS 5182 Part 5 &amp; Part 14

ULR : TC1231024000045596F

Report No. : HECS/AP/080/210924

Sample ID No : 210924158

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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	5.28	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	22.91	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	10.66	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	48.72	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	20.58	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	8.54	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  
Lab Manager  
Authorized Signatory

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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 : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(Air)

Sample Mark : Agoor

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 5182 Part 5 & Part 14

Report No. : HECS/AP/080/210924/N

Sample ID No : 210924158

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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 1

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(Ali)

Sample Mark : Pelakuppam

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 &amp; Plan : IS 5182 Part 5 &amp; Part 14

ULR : TC1231024000045597F

Report No. : HECS/AP/081/210924

Sample ID No : 210924159

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m <sup>3</sup>	8.44	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 dioxides as NO2	µg/m <sup>3</sup>	18.57	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m <sup>3</sup>	12.39	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m <sup>3</sup>	55.80	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m <sup>3</sup>	23.32	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m <sup>3</sup>	10.08	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\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Tindivanam  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
Sample Mark : Pelakuppam  
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 5182 Part 5 & Part 14

Report No. : HECS/AP/081/210924/N  
Sample ID No : 210924159  
Sampling Date : 21/09/2024  
Received Date : 21/09/2024  
Commenced Date : 21/09/2024  
Completed On : 27/09/2024  
Report Date : 27/09/2024  
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.31 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 1

UIR : TC1231024000045598F

Report No. : HECS/AP/082/210924

Sample ID No : 210924160

Sampling Date : 21/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Ural

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 5182 Part 5 & Part 14

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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	6.51	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	21.84	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	13.77	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	49.53	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	18.64	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	9.22	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\*\*\*



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Atmospheric Pollution

Sample Name : Ambient Air(Air)

Sample Mark : Ural

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 5182 Part 5 & Part 14

Report No. : HECS/AP/082/210924/N

Sample ID No : 210924160

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

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 4

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Agoor

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 : TC12310240000460061

Report No. : HECSL/WT/038/210924

Sample ID No : 210924162

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	270.0	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 -Carcumin Method: 2021	0.5	1.4
6	Calcium as Ca	mg/l	72.14	IS 3025 Part 40: 1991(E131A 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	161.67	IS 3025 Part 53: 1988 ( Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part-4): 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	6.6	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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Agoor

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 : TC1231024000046006F

Report No. : HECSL/WT/038/210924

Sample ID No : 210924162

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	1119.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.49	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.076	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	38.88	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	9.34	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	33.39	HECS/WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.17	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	7.0	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)	1.90	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	81.0	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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Agoor

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 : TC1231024000046006F

Report No. : HECSL/WT/038/210924

Sample ID No : 210924162

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	47.36	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	270.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	627.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	0.12	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.037	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	340.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Agoor

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 : TC1231024000046006F

Report No. : HECSL/WT/038/210924

Sample ID No : 210924162

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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 : Tindivanam  
Group : Water  
Sample Name : Ground Water  
Sample Mark : Near Agoor  
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/038/210924/N  
Sample ID No : 210924162  
Sampling Date : 21/09/2024  
Received Date : 21/09/2024  
Commenced Date : 21/09/2024  
Completed On : 30/09/2024  
Report Date : 30/09/2024  
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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Authorized Signatory

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TC-12310

**Laboratory Services Division**(Chemical & Biological Testing)  
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BIS FSSAI Notified Laboratory  
ISO 9001, 14001 & 45001 Certified.**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Botheri

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 : TC1231024000046007F

Report No. : HECSL/WT/039/210924

Sample ID No : 210924163

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	260.0	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	68.14	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	460.52	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	6.6	IS 3025 (Part 38): 1989 ( Titrimetric Method)	NA	NA

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## Laboratory Services Division

(Chemical & Biological Testing)  
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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Botheri

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 : TC1231024000046007F

Report No. : HECSL/WT/039/210924

Sample ID No : 210924163

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	1805.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.44	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.057	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	36.45	IS 3025 Part 46: 1994 ( Valumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	6.34	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	58.16	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	17.0	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)	5.33	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	220.0	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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Botheri

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 : TC1231024000046007F

Report No. : HECSL/WT/039/210924

Sample ID No : 210924163

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	91.36	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	260.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	1017.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	0.094	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.028	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	320.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Botheri

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 : TC1231024000046007F

Report No. : HECSL/WT/039/210924

Sample ID No : 210924163

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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

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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Tindivanam  
Group : Water  
Sample Name : Ground Water  
Sample Mark : Botheri  
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  
Report No. : HECSL/WT/039/210924/N  
Sample ID No : 210924163  
Sampling Date : 21/09/2024  
Received Date : 21/09/2024  
Commenced Date : 21/09/2024  
Completed On : 30/09/2024  
Report Date : 30/09/2024  
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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Project Site

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 : TC1231024000046008F

Report No. : HECSL/WT/040/210924

Sample ID No : 210924164

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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 , Cy: 2017	0.2	1
3	Bi carbonate	mg/l	250.0	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	60.12	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	191.06	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	6.7	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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Project Site

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 : TC1231024000046008F

Report No. : HECSL/WT/040/210924

Sample ID No : 210924164

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	1062.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.45	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.056	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	29.16	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	30	100
17	Nitrate as NO <sub>3</sub>	mg/l	11.44	APHA 23rd edition (Method 4500 NO <sub>3</sub> B): 2017	45	No relaxation
18	Percent Sodium	%	41.33	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 C <sub>6</sub> H <sub>5</sub> OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	7.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	2.40	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	91.0	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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Project Site

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

U.L.R : TC1231024000046008F

Report No. : HECSL/WT/040/210924

Sample ID No : 210924164

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	51.26	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	250.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	596.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	2.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	0.081	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.025	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	270.0	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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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Project Site

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 : TC1231024000046008F

Report No. : HECSL/WT/040/210924

Sample ID No : 210924164

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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 : Tindivanam

Group : Water

Sample Name : Ground Water

Sample Mark : Near Project Site

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/040/210924/N

Sample ID No : 210924164

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr <sup>6+</sup>	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 : Tindivanam

Group : Water

Sample Name : Surface Water

Sample Mark : Lake Near Vizhukkuam

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 : TC1231024000046009F

Report No. : HECSL/WT/041/210924

Sample ID No : 210924165

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	110.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)(at 27°C For 3 days	mg/l	BLQ(LOQ: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	52.10	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	112.68	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	6.8	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	778.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.41	APHA 23rd edition Method 4500 F -B.D: 2017	1.5
12	Iron as Fe	mg/l	0.058	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO <sub>3</sub>	mg/l	9.22	APHA 23rd edition Method 4500 NO <sub>3</sub> B: 2017	20

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**TEST REPORT**

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ULR : TC1231024000046009F  
 Report No. : HECSL/WT/041/210924  
 Sample ID No : 210924165  
 Sampling Date : 21/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water  
 Sample Name : Surface Water (All)  
 Sample Mark : Lake Near Vizhukkum  
 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

Received Date : 21/09/2024  
 Commenced Date : 21/09/2024  
 Completed On : 30/09/2024  
 Report Date : 30/09/2024  
 Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C		7.67	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	436.0	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	26.73	IS 3025 Part 46: 1994 (Valometric Method using EDTA)	24.28
20	Percent Sodium	%	34.60	HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43: Sec 1: 2022	0.002
22	Phosphate as PO <sub>4</sub>	mg/l	0.051	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	4.0	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)	1.71	IS 11624: 2019	NA



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ULR : TC1231024000046009F  
 Report No. : HECSL/WT/041/210924  
 Sample ID No : 210924165  
 Sampling Date : 21/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Vizhukkuam

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

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	61.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO <sub>4</sub>	mg/l	21.44	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO <sub>3</sub>	mg/l	110.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO <sub>3</sub>	mg/l	240.0	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	BLQ(LOQ:2.0)	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	BLQ(LOQ:0.1)	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 : TC1231024000046009F

Report No. : HECSL/WT/041/210924

Sample ID No : 210924165

Sampling Date : 21/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Vizhukkum

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

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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, mg/l - Milligrams per liter.

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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Vizhukkuam

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/041/210924/N

Sample ID No : 210924165

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

Sample quantity : 1 Litres

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 : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Botheri

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

U/LR : TC1231024000046010F

Report No. : HECSL/WT/042/210924

Sample ID No : 210924166

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	220.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 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	48.09	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	107.78	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	6.2	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	743.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.39	APHA 23rd edition Method 4500 F -B,D: 2017	1.5
12	Iron as Fe	mg/l	0.051	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO <sub>3</sub>	mg/l	8.74	APHA 23rd edition Method 4500 NO3B: 2017	20



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Page : 2 of 4

ULR : TC1231024000046010F  
Report No. : HECSL/WT/042/210924  
Sample ID No : 210924166  
Sampling Date : 21/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Botheri

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

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	7.66	IS 3025 Part 11: 2022 ( Electrometric Method)	8.5
15	Total dissolved solids	mg/l	424.0	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	26.73	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	31.90	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	4.0	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)	1.46	IS 11624: 2019	NA



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Botheri

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 : TC1231024000046010F

Report No. : HECSE/WT/042/210924

Sample ID No : 210924166

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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	51.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO <sub>4</sub>	mg/l	22.81	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO <sub>3</sub>	mg/l	220.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO <sub>3</sub>	mg/l	230.0	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	BLQ(LOQ:2.0)	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	BLQ(LOQ:0.1)	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

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Botheri

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 : TC1231024000046010F

Report No. : HECSL/WT/042/210924

Sample ID No : 210924166

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

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, mg/l - Milligrams per liter.

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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake Near Botheri

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/042/210924/N

Sample ID No : 210924166

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 30/09/2024

Report Date : 30/09/2024

Sample quantity : 1 Litres

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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Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution &amp; 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) : 22.0 | Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

ULR : TC1231024000045740F

Report No. : HECS/TE/031/210924

Sample ID No : 210924167

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

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	23.51	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
4	Copper	mg/Kg	6.51	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
6	Zinc	mg/kg	23.61	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
7	Soil Texture:		Loam	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture i)Sand	%	46.2	FAO of United Nations, Rome Chapter - III 2008
9	Soil Texture ii)Silt	%	27.4	FAO of United Nations, Rome Chapter - III 2008
10	Soil Texture iii)Clay	%	26.4	FAO of United Nations, Rome Chapter - III 2008
11	pH Value @ 25 ° C (1 : 2.5)		6.74	IS 2720 (Part - 26) 1987
12	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	210.0	IS 14767: 2000

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ISO 9001, 14001 & 45001 Certified.

**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIP'COT

Address of the Client : Tindivanam

Group : Pollution &amp; 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) : 22.0 Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

ULR : TC1231024000045740F

Report No. : HECS/PE/031/210924

Sample ID No : 210924167

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.18	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.37	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.64	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	8.44	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	%	0.0085	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.34	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	3.74	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	1.6	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	31.2	IS 14765: 2000
21	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02.07. 2020
22	Phosphorous	µg/g	5.12	FAO of United Nations, Rome Chapter - III 2008

Note:- 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



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**Laboratory Services Division**

(Chemical &amp; Biological Testing)

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**TEST REPORT**

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Tindivanam  
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) : 22.0 | Humidity (%) : 45.0  
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/031/210924/N  
Sample ID No : 210924167  
Sampling Date : 21/09/2024  
Received Date : 21/09/2024  
Commenced Date : 21/09/2024  
Completed On : 28/09/2024  
Report Date : 28/09/2024  
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	157.32	HECS-G/INS/SOP/042
	Iron	mg/kg	3.42	Inhouse method
	Infiltration Rate	cm/hr	6.4	Inhouse method
	Moisture	%	7.12	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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Page: 1 of 2

ULR : TC1231024000045741F

Report No. : HECS/PE/032/210924

Sample ID No : 210924168

Sampling Date : 21/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution &amp; Environment

Sample Name : Soil(All)

Sample Mark : Near Botheri

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

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	27.61	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	26.41	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Clay Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	38.9	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	24.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	36.7	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)		7.32	IS 2720 (Part -26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	850.0	IS 14767: 2000

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**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution &amp; Environment

Sample Name : Soil(All)

Sample Mark : Near Botheri

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

ULR : TC1231024000045741F

Report No. : HECS/TE/032/210924

Sample ID No : 210924168

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

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	%	0.27	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.48	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	3.92	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	%	0.0084	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	8.12	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	%	18.8	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 - III 2008

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

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



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## Laboratory Services Division

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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Botheri

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/032/210924/N

Sample ID No : 210924168

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	160.21	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	0.58	Inhouse method
3	Infiltration Rate	cm/hr	5.8	Inhouse method
4	Moisture	%	2.48	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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**Laboratory Services Division**(Chemical & Biological Testing)  
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ISO 9001, 14001 & 45001 Certified.**TEST REPORT**

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution &amp; Environment

Sample Name : Soil(All)

Sample Mark : Near Agoor

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

ULR : TC1231024000045742F

Report No. : HECS/PE/033/210924

Sample ID No : 210924169

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

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	34.62	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	6.14	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	28.12	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	41.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	36.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	22.4	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.42	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µ S/cm	285.0	IS 14767: 2000

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**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution &amp; Environment

Sample Name : Soil(All)

Sample Mark : Near Agoor

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

ULR : TC1231024000045742F

Report No. : HECS/PE/033/210924

Sample ID No : 210924169

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.08	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.49	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.86	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	9.43	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	%	0.0078	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	8.04	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	4.5	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	31.8	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 - III 2008

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

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



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## Laboratory Services Division

(Chemical & Biological Testing)  
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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Agoor

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/033/210924/N

Sample ID No : 210924169

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	124.21	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	3.4	Inhouse method
3	Infiltration Rate	cm/hr	3.4	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\*\*\*



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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 : Tindivanam

ULR : TC1231024000045743F

Report No. : HECS/PE/034/210924

Sample ID No : 210924170

Sampling Date : 21/09/2024

Group : Pollution &amp; Environment

Sample Name : Soil(AH)

Sample Mark : Near Pelakuppam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

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	35.32	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.12	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	24.62	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	40.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	27.1	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	32.7	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.42	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	910.0	IS 14767: 2000

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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Pelakuppam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000045743F

Report No. : HECS/PE/034/210924

Sample ID No : 210924170

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

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	%	0.62	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	1.08	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	6.02	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	8.64	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	10.84	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.6	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	18.4	IS 14765: 2000
21	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02.07. 2020
22	Phosphorous	µg/g	7.20	FAO of United Nations, Rome Chapter - III 2008

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 : Tindivanam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Pelakuppam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/034/210924/N

Sample ID No : 210924170

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	132.51	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	4.68	Inhouse method
3	Infiltration Rate	cm/hr	5.2	Inhouse method
4	Moisture	%	6.52	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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Authorized Signatory

**TEST REPORT**

Page : 1 of 2

ULR : TC1231024000045744F

Report No. : HECS/PE/035/210924

Sample ID No : 210924171

Sampling Date : 21/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Tindivanam

Group : Pollution &amp; Environment

Sample Name : Soil(AH)

Sample Mark : Near Ural

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
<b>Discipline : Chemical</b>				
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	30.81	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	25.08	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Silt loams	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	21.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	52.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	26.4	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.28	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µ S/cm	820.0	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 : Tindivanam

Group : Pollution &amp; Environment

Sample Name : Soil(All)

Sample Mark : Near Ural

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method &amp; Plan : ICARDA:2013

ULR : TC1231024000045744F

Report No. : HECS/PE/035/210924

Sample ID No : 210924171

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.09	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.48	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.72	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	10.38	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	%	0.0079	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.04	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	7.24	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	1.9	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	32.2	IS 14765- 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	ppm	6.54	FAO of United Nations, Rome Chapter - III 2008

Note:- 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.

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 : Tindivanam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Ural

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/035/210924/N

Sample ID No : 210924171

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 28/09/2024

Report Date : 28/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	135.26	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	2.02	Inhouse method
3	Infiltration Rate	cm/hr	6.8	Inhouse method
4	Moisture	%	7.94	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 : Tindivanam

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 : TC1231024000045599F

Report No. : HECS/AP/083/210924

Sample ID No : 210924161

Sampling Date : 21/09/2024

Received Date : 21/09/2024

Commenced Date : 21/09/2024

Completed On : 27/09/2024

Report Date : 27/09/2024

Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	52.8	43.6
2	Botheri	54.3	42.8
3	Agoor	53.9	43.9
4	Pelakuppam	52.9	42.4
5	Ural	47.4	39.6

### Noise Standards - CPCB:

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

**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 Limit

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

D.Anusuya

Lab Manager

Authorized Signatory



## TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD

31, Kamarajar Salai, Chepauk, Chennai-600 005.

Dr.C.N.Mahesvaran,I.A.S.,  
Managing Director,

Lr.No.F. 280518/ AEI/PDC/2016-2/Dt.02.09.2020

To  
The Managing Director,  
SIPCOT Ltd,  
19-A, Rukmani Lakshmiipatty Road,  
Egmore, Chennai-8.

Sir,

Sub: Setting up Of 60 Mld Capacity Desalination Plant at Koonimedu near Marakanam in Villupuram District and Conveyance of Product Water to Villupuram and Tindivanam Municipalities, Vicravandi, Marakanam Town panchayats and 692 rural habitations in Marakanam, Kanai, Mailam, Vicravandi and Vanur unions in Villupuram Dt - 3 Mld water supply requested to SIPCOT, Tindivanam - Proportionate cost to be borne by SIPCOT - remittance of proportionate project cost - requested - reg.

Ref: 1. Chief Engineer, SIPCOT, Chennai Lr.No. CW/TIP/External Water Supply/2018/Dt.03.01.2019 addressed to CE, TWAD, Vellore.  
2. EE, TWAD, RWS, Kallakurichi Lr.No. F.DSP-CWSS-1/DO/RWS/KKI/2020/Dt.8.8.2020 addressed to Project officer, SIPCOT, Cuddalore

With reference to the letter 1<sup>st</sup> cited, it is pertinent to inform the following.

- ✓ TWAD Board is proposed to install 60 mld capacity Desalination Plant at Koonimedu near Marakanam in Villupuram District for providing water supply to Villupuram and Tindivanam Municipalities, Vicravandi, Marakanam Town panchayats and 692 rural habitations in Marakanam, Kanai, Mailam, Vicravandi and Vanur unions in Villupuram Dt.
- ✓ Originally, the Detailed project report was prepared with Schedule of rates for the year 2019-20 for Rs.1450 Crore (Plant cost - Rs.615 crore & Conveyance cost - Rs.835 Crore) to install and Rs.100.27 Crore to maintain Annually (Plant - Rs.80.81 Crore & Conveyance - Rs.19.46 Crore).
- ✓ Now, the DPR has been revised with the provision for revision with Schedule of rates for the year 2020-21 for Rs.1556.00 Crore (Plant cost - Rs.665.00 crore & Conveyance cost - Rs.891.00 Crore).
- ✓ Administrative approval and fund tie up for this project is being processed by Govt intently.



- ✓ Under this Scheme, provision has been made to provide 3 MLD (30.00 LL) of water supply to SIPCOT, Tindivanam based on the request made vide reference 1<sup>st</sup> cited.
- ✓ It is proposed to supply 3.00 MLD of water to SIPCOT, Tindivanam by pumping through 25.83 Km length of Pumping main (500 mm to 300 mm DI K7 pipe) from the proposed Endur booster station (Transmission Main 2) located at 30.19 Km from Desalination Plant location site. The Flow diagram of the project is appended herewith.
- ✓ The proportionate Project cost towards supply of 3 mld to SIPCOT, Tindivanam is Rs.65.18 Crore
- ✓ Fund tie up for the project is sought for from Govt excluding the proportionate cost of Rs.65.18 Crore towards supply of 3 mld to SIPCOT, Tindivanam.

In this regard, I request you to

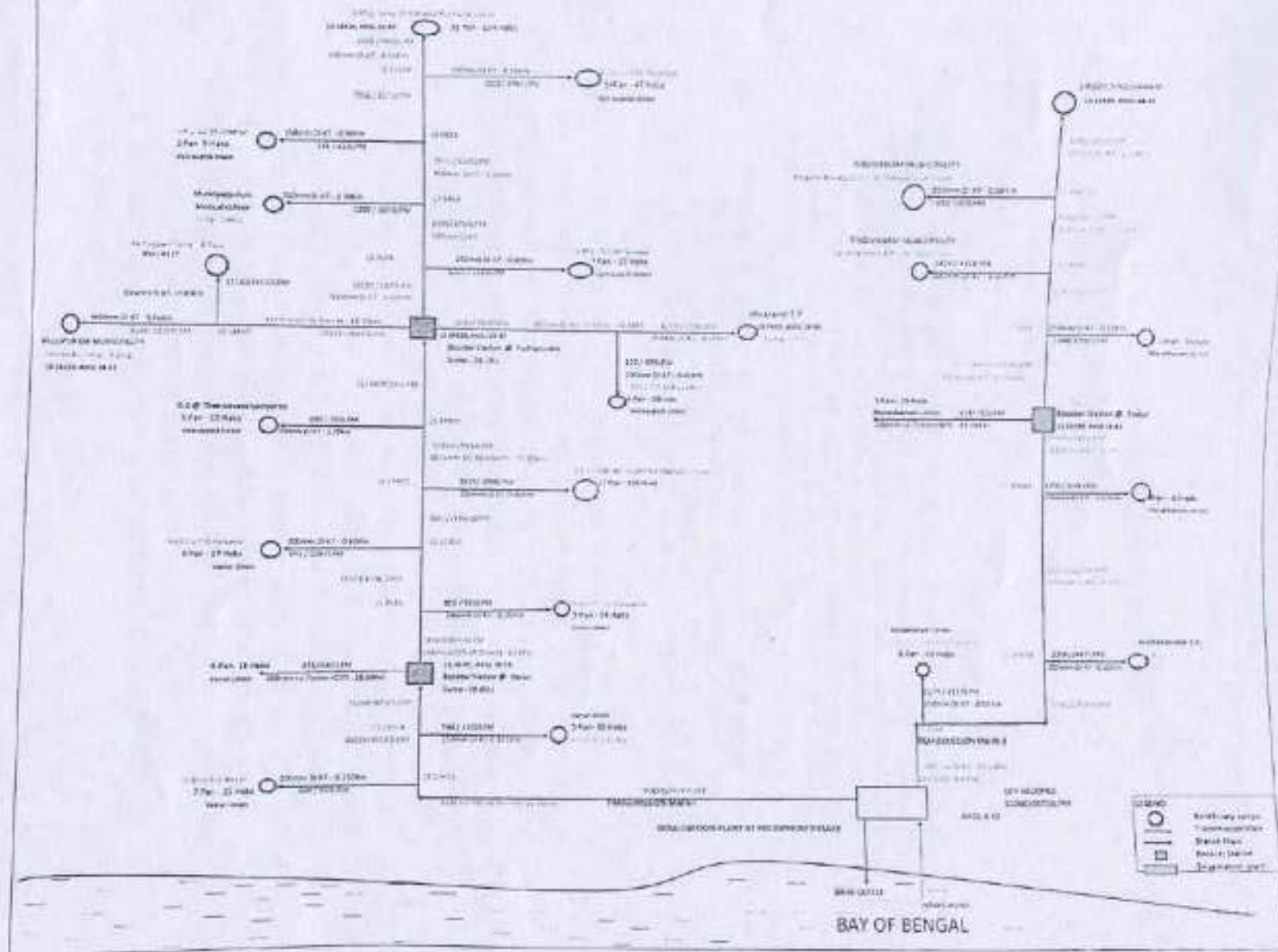
- Remit the proportionate Project Cost of Rs. 65.18 Crore to TWAD on receipt of Administrative sanction for the project from the Govt and enter upon MoU with TWAD.
- Give consent to bear excess project cost if any arises during implementation of the Scheme, on receipt of intimation from TWAD Board.

End: Flow Diagram of the Project.

Sd/-02.09.2020  
Managing Director,  
TWAD Board, Chennai-5.

*[Signature]*  
for Managing Director,  
TWAD Board, Chennai-05.  
*[Signature]*  
21/9/2020

CWS TO VILLUPURAM & TINDIVANAM MUNICIPALITY, 5 TOWN PANCHAYATS, 870 RURAL HABITATIONS IN 3 MANCHYAT UNIONS, 5 PCDT TINDIVANAM AND MEDICAL COLLEGE & HOSPITAL AT MUNDIYAMPURAM BY SETTING UP A DESALINATION PLANT AT KODUVOLU AT VILLUPURAM DISTRICT





C 11 - 11

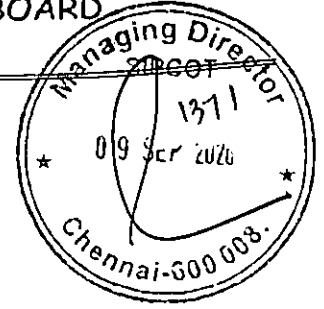
**TAMILNADU WATER SUPPLY AND DRAINAGE BOARD**

31, Kamarajar Salai, Chepauk, Chennai.5

**Dr.C.N.Mahesvaran., I.A.S.,**

**Managing Director**

Lr No F.280518/ AE1/ PDC/ 2018/ dt. 05.09.2020



To

The Managing Director  
SIPCOT Ltd,  
19-A, Rukmani Lakshmapathy road,  
Egmore, Chennai.

Sir,

Sub: TWAD Board – SIPCOT Industrial park, Tindivanam – 3.00 mld subsurface water supply near SIPCOT Park – finalization of immediate requirement - Online registration and consent requested - reg

Ref: 1. MD, SIPCOT Lr No CW/ TIP/ W.S/2018/ dt14.07.2020.  
2. This office Lr.No. No F.280518/ AE1/ PDC/ 2018/ dt.20.07.2020.  
3. MD, SIPCOT Lr No CW/ IWC /TIP/WS/2020/ dt10.08.2020.

With reference to MD, SIPCOT's request vide reference 1<sup>st</sup> cited to expedite the investigation for supply of 3 mld by sparing from the existing water supply scheme of TWAD Board, MD, SIPCOT was addressed vide reference 2<sup>nd</sup> cited informing that

- ✓ There are no existing WS schemes in Cuddalore and Villupuram Districts from which 3 MLD could be spared to SIPCOT, Tindivanam.
- ✓ Apart from the source identified for supply of 0.5 mld from the **subsurface source nearby park** by constructing 3 or 4 open wells, another 0.50 mld would be possible to tap from the **palakuppam panchayat of Tindivanam taluk** by construction of 3 to 4 open wells for which necessary permission from the Panchayat is to be obtained for industrial supply by SIPCOT.
- ✓ Also, suggested around 30 nos. of open wells from **Veedur dam** assuming yield of 100-110LPM

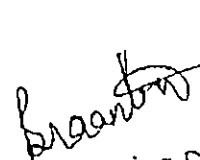
Now, in the reference 3<sup>rd</sup> cited it has been requested to confirm the feasibility of drawal of 3 mld surface water from Veedur dam.

In this regard, HG, Chennai after carrying out thorough hydrogeological investigation of dam ruled out the Veedur Dam option citing that

- ✓ excavation of open wells outside the Veedur dam is not feasible since there are no spaces
- ✓ it is not possible to excavate wells inside also since the parapet wall of wells to be raised to Dam height of 32 ft to prevent submergence when the reservoir is full.

Further the HG has suggested that an immediate requirement of around 1 MLD is possible for drawal from the existing (50 Nos) of open wells in SIPCOT premises by carrying out suitable rejuvenation works. .

On finalization of immediate requirement by SIPCOT and on completion of online registration , remittance of upfront deposit and furnishing consent for 'ToR' of TWAD Board as already requested vide reference 2<sup>nd</sup> cited , investigation works will be taken up by TWAD.

  
for Managing Director  
TWAD Board – Chennai-5  
5/9/2020

**Environmental Clearance for SIPCOT Thindivanam**  
**Published in "Deccan Chronicle" Chennai Edition dated 05.01.2020 in**  
**English Language**

● **Blogger Pradeep John, also called the 'Tamil Nadu weatherman', wrote on his Facebook post that the fog in the city was not due to pollution. "It's not like the smog that happened in November." He said the fog will continue for the next 2-3 days.**

Chennai airport authorities pointed out on its Twitter handle that, "due to adverse weather conditions/poor visibility, flights are diverted/delayed. The inconvenience caused to passengers is sincerely regretted. Passengers are requested to check with the concerned airline (s) for further updates." The airlines also updated the passengers about the flight delays and apologised to the passengers.

A blanket of fog covered most parts of the city till 8.30 am on Saturday disrupting vehicular movement.

Ooty, Jan 4: The district court here on Saturday granted a three-day parole to Valayar Manoj, one of the accused in the Kodanadu estate, murder and heist cases, to perform the last rites of his father who expired two days ago in Kerala.

As the petition for parole came up for hearing, district judge P. Vadamalai gave the parole to Valayar Manoj and directed that be produced

before court on January 7.

Manoj is one of the 10 accused in the murder of a security guard and heist in the bungalow in Kodanadu belonging to late Tamil Nadu chief minister Jayalalithaa and lodged in the Central jail here.

His counsel had filed a petition seeking parole to Manoj to perform the last rites of his father who died two days ago in Thrissur, Kerala. —PTI



**STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED**  
**SIPCOT INDUSTRIAL PARK, THINDIVANAM**  
**THINDIVANAM TALUK, VILLUPURAM DISTRICT**

**ENVIRONMENTAL CLEARANCE**

Environmental Clearance has been obtained for the proposed SIPCOT Industrial Park at Thindivanam, Villupuram District from State Level Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide their Lr.No.SEIAA-TN/F.5497/EC/8(b)/681/2019 dt.27.11.2019.

The contents of the Environmental Clearance can be downloaded from SIPCOT website [www.sipcot.in](http://www.sipcot.in) and also in the SEIAA website [www.seiaa.tn.gov.in](http://www.seiaa.tn.gov.in). Further the copies of the Environmental clearance could be obtained from the Head office of SIPCOT.

**MANAGING DIRECTOR**  
**SIPCOT**

19-A, RUKMANI LAKSHMIPATHY ROAD,  
 EGMORE, CHENNAI-8

DIPR/24/DISPLAY/2020



**TAMIL NADU COMMON ENTRANCE TEST (TANCET) 2020**

**FOR M.B.A., M.C.A., & M.E./M.Tech./M.Arch./M.Plan. DEGREE PROGRAMMES**

**ANNA UNIVERSITY, CHENNAI - 600 025**



Applications for Tamil Nadu Common Entrance Test (TANCET) 2020 conducted by Anna University, Chennai on behalf of the Government of Tamil Nadu from candidates who seek admission to 1. M.B.A., 2. M.C.A. and 3. M.E. / M.Tech. / M.Arch. / M.Plan. Degree Programmes for the academic year 2020 – 2021 offered at University Departments,







Projects/Thindivanam/2019

Date:05.02.2020

The Deputy Director General of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (SEZ), 1st and IIInd Floor,  
Handloom Export Promotion Council, 34, Cathedral Garden Road,  
Nungambakkam, Chennai - 600 034

/RPAD/

Sir,

Sub: SIPCOT Industrial Park, Thindivanam - Submission of copy of the  
press release for issue of Environmental Clearance from SEIAA -  
Forwarded - Reg.


Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated  
27.11.2019.

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance  
(EC) from SEIAA. As per EC condition, the advertisement regarding issue of  
Environment Clearance for SIPCOT Industrial Park at Thindivanam has been  
released in 'Deccan Chronicle' Chennai edition dated 05.01.2020 in English  
language and 'Dinamani' Villupuram edition dated 05.01.2020 in Tamil  
Language.

The copy of both the press release has been enclosed here with for your  
kind perusal.

Yours Faithfully,

  
GENERAL MANAGER (P-II)i/c

Encl.: as above



Projects/Thindivanam/2019

Date:05.02.2020

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 Industrial Park, Thindivanam - Submission of copy of the  
press release for issue of Environmental Clearance from SEIAA -  
Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated  
27.11.2019.

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Language.

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kind perusal.

Yours Faithfully,

GENERAL MANAGER (P-II)i/c

Encl.: as above



Projects/Thindivanam/2019

Date: 05.02.2020

The President,  
Venmaniyathur Village Panchayat,  
Thindivanam Taluka,  
Villupuram District,  
Tamil Nadu

Sir,

Sub: SIPCOT Industrial Park, Thindivanam – Submission of copy of the press release for issue of Environmental Clearance from SEIAA – Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance (EC) for SIPCOT Industrial Park at Pelakuppam, Venmaniyathur, Kollar Village, Thindivanam Taluka, Villupuram District, Tamil Nadu from SEIAA. The copy of Environmental Clearance has been enclosed here with for your kind perusal.

Yours Faithfully,

GENERAL MANAGER (P-II)/c

Encl.: as above

Copy to:

Project Officer, SIP - Cuddalore

- To hand over a copy of the Environmental Clearance to the above panchayat with due acknowledgement and send a report to H.O.



Projects/Thindivanam/2019

Date: 05.02.2020

The President,  
Pelakuppam Village Panchayat,  
Thindivanam Taluka,  
Villupuram District,  
Tamil Nadu

Sir,

Sub: SIPCOT Industrial Park, Thindivanam - Submission of copy of the press release for issue of Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

\*\*\*\*\*

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Yours Faithfully,

  
GENERAL MANAGER (P-II)/c

Encl.: as above

Copy to:

Project Officer, SIP - Cuddalore

- To hand over a copy of the Environmental Clearance to the above panchayat with due acknowledgement and send a report to H.O.





Projects/Thindivanam/2019

Date: 05.02.2020

The President,  
Kollar Village Panchayat,  
Thindivanam Taluka,  
Villupuram District,  
Tamil Nadu

Sir,


Sub: SIPCOT Industrial Park, Thindivanam - Submission of copy of the press release for issue of Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

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With reference to the above, we have obtained Environmental Clearance (EC) for SIPCOT Industrial Park at Pelakuppam, Venmaniyathur, Kollar Village, Thindivanam Taluka, Villupuram District, Tamil Nadu from SEIAA. The copy of Environmental Clearance has been enclosed here with for your kind perusal.

Yours Faithfully,

  
GENERAL MANAGER (P-II)/c

7/3

Encl.: as above

Copy to:

Project Officer, SIP - Cuddalore -

To hand over a copy of the Environmental Clearance to the above panchayat with due acknowledgement and send a report to H.O.



SIPCOT - State Industries Promotion Corporation of Tamil Nadu

https://sipcotweb.tn.gov.in/Environment\_distance

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24	Aerospace Park			Kancheepuram		<a href="#">Download</a>			
25	Vallam Vadagal - II			Kancheepuram		<a href="#">Download</a>			
26	Manapalai			Tiruchirappalli		<a href="#">Download</a>			
27	Tindivanam			Villupuram		<a href="#">Download</a>			

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7	Compliance Report - Mansarai for June 2024	<a href="#">Download</a>
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19	Environmental Statement for the Financial Year - 2023 - 2024	<a href="#">Download</a>

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## Map





## **SIPCOT – THINDIVANAM MONITORING** **PHOTOS**

### **AMBIENT AIR QUALITY MONITORING PHOTOS:**

#### **NEAR PROJECT AREA**



#### **BOTHERI**



## AGOOR



## PELAKUPPAM



## URAL



## GROUND WATER SAMPLING PHOTOS

### PROJECT AREA



### BOTHERI



## AGOOR





# **SURFACE WATER SAMPLING PHOTOGRAPH**

**BOTHERI LAKE**



**VIZHUKAM LAKE**



## SOIL SAMPLING PHOTOGRAPH

PROJECT AREA	BOTHERI
 <p>21/09/2024</p>	 <p>21/09/2024</p>
AGOOR	PELAKUPPAM
 <p>21/09/2024</p>	 <p>21/09/2024</p>
URAL	





# NOISE MONITORING PHOTOGRAPH

PROJECT SITE	BOTHERI
 <p>21/09/2024</p>	 <p>21/09/2024</p>
PELAKUPPAM	URAL
 <p>21/09/2024</p>	 <p>21/09/2024</p>
AGOOR	



