

HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of April 2024 - September 2024

For

Development of Industrial Park

at

**Therkuveerapandiyapuram Village of Ottapidaparam
Taluk and Meelavittan Village of Thoothukudi Taluk
Thoothukudi District, Tamil Nadu.**

EC OBTAINED Vide Letter No. SEIAA – TN/F. 7939/EC /8(b)/796/2022 dated: 02.02.2022

Submitted by



**M/S. STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LTD
19/A, Rukmani Lakshmi Pathy Road,
Egmore, Chennai - 600008.**

Prepared by



**HUBERT ENVIRO CARE SYSTEMS (P) LTD
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November 2024

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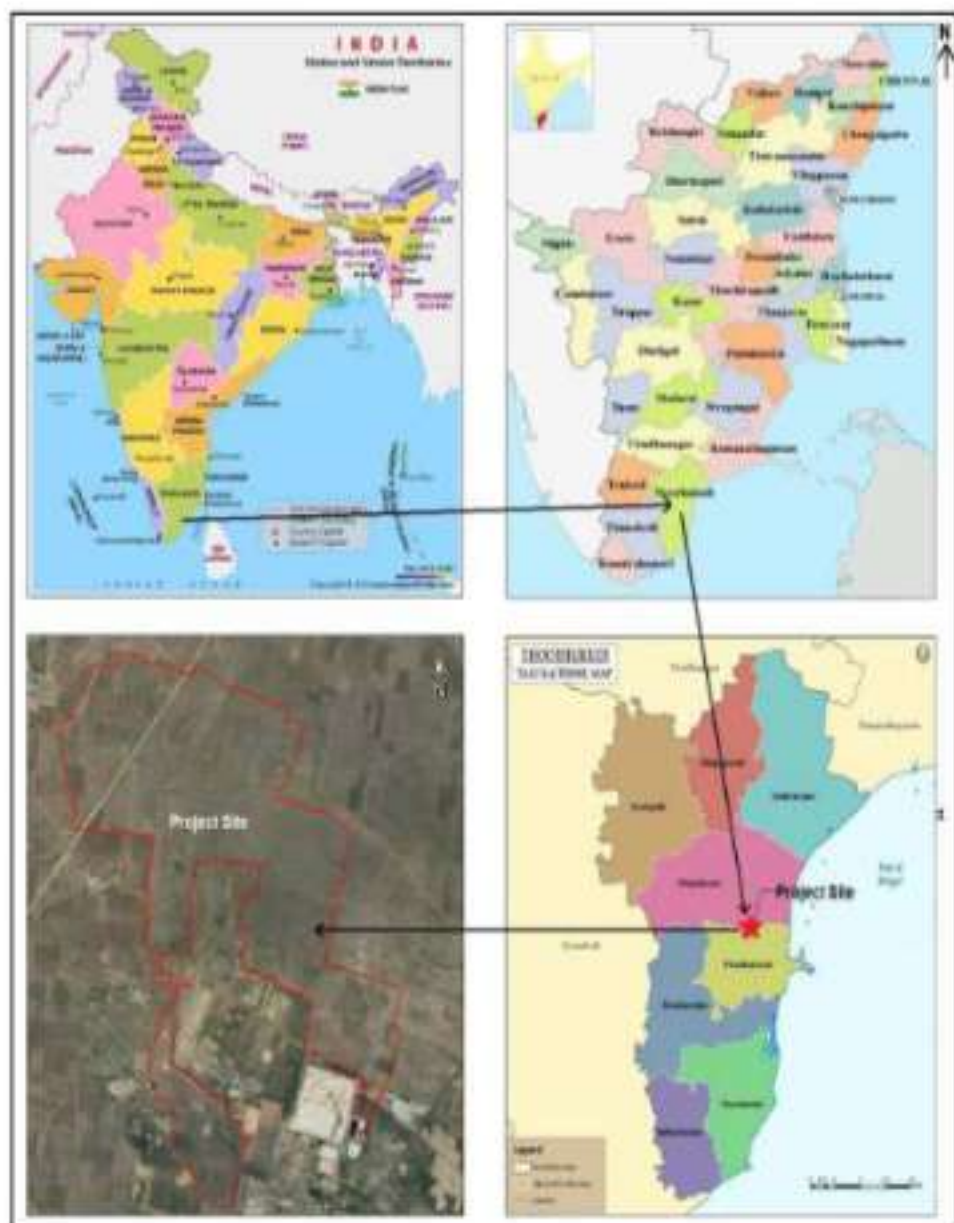
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1.0 PROJECT DETAILS

Name of the Project	"Development of Industrial Park"
Name of the Proponent	State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)
Location	Therkuveerapandiyapuram Village of Ottapidaram Taluk & Meelavittan Village of Thoothukudi Taluk, Thoothukudi District, Tamil Nadu.
EC. No	EC22B039TN127123 dated 07.02.2022 SEIAA Letter No. SEIAA-TN/F.No/7939/EC/8(b)/796/2022 dt.02.02.2022 (Enclosed as Annexure 1)
Total Extent	466.503 Hectares
Water Requirements	Total water requirement: 10242 KLD Fresh water: 940 KLD, Treated sewage from Thoothukudi Municipality: 6602 KLD (for green belt) Recycled water: 2700 KLD). Source: TWAD Fresh water - existing SIPCOT water supply scheme from Thamirabarani River Treated sewage- Thoothukudi Municipality's STP at Tharuvaikulam.
Project Cost	Rs.253 Crores

2.0 LOCATION MAP



3.0 SITE PHOTOGRAPHS



4.0 SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

SEAC Specific Conditions:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.	All the member Industries will be mandated to provide STP and ETP to achieve the TNPCB/CPCB prescribed standards.
2.	The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SEIAA.	Condition Noted.
3.	The height of the stacks of DG sets shall Be provided as per the CPCB norms.	All the member units will be instructed to follow applicable rules and guidelines.
4.	The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.	All the member units will be instructed to follow applicable rules and guidelines.
5.	The proponent shall make proper arrangements for the disposal of the treated water from the proposed site for Toilet flushing. Green belt development & OSR and no treated water be let out of the premises.	STP is not proposed by SIPCOT. All the member Industries will be mandated to provide STP and the treated water will be reused for their toilet flushing and greenbelt development
6.	The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.	STP is not proposed by SIPCOT. All the member Industries will be mandated to provide STP and the treated water will be reused for their toilet flushing and greenbelt development

7.	The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished as committed.	Condition Noted. Construction will be made as per the DTCP approved layout.
8.	The purpose of Green belt around the Project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species Should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be include in the layout out plan to be submitted for CMDA, DTCP approval. The total green belt area should be minimum 15% of the total area and the small shall not be used for car parking/OSR,	Condition Noted. Greenbelt will be developed in minimum 33% of total developable area with indigenous native species.
9.	The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.	Entry and exit points will be provided for OSR as per norms.
10.	The Proponent shall provide rain water	Condition Noted.

	harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed	
11.	The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.	All the member units will be instructed to follow applicable rules and guidelines.
12.	No waste of any type to be disposed off in any other way other than the approved one.	Condition Noted. All the member units will be instructed to follow applicable rules and guidelines.
13.	The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.	Condition Noted.
14.	All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.	Condition will be complied.
15.	The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
16.	The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post – COVID period.	Condition will be complied. All the member units shall comply with.
17.	The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent	Condition will be complied.

	to operate from TNPCB and submit a copy of the same to SEIAA.	
18.	Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.	Condition Noted.
19.	As per the MoEF&CC Office Memorandum F.No. 22-6512017-1A.1 Dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP and revised CER shall be furnished before placing the subject to SEIAA.	Condition complied.

SEIAA Additional Conditions:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The proponent shall ensure that all the construction of Buildings by the individual Industry shall be energy efficient and conform the green building norms.	Condition Noted. All the member units will be instructed to comply with applicable rules and guidelines.
2.	The proponent shall provide the adequate health care facility within the premises.	Condition Noted.
3.	The proponent shall provide the adequate parking facility within the premises with clear traffic plan.	Condition will be complied.
4.	The proponent shall ensure that eateries provided if any within the premises shall be maintained in hygienic way.	Condition Noted. All the member units will be instructed to follow applicable rules and guidelines.
5.	The proponent shall ensure that no treated or untreated trade effluents/sewage shall be discharged outside the premises under any circumstances.	Individual industries will be mandated to have their own STP/ETP for treatment of wastewater and to reuse the treated water as per the norms.
6.	The proponent shall start the development of Industrial park only after	Condition will be complied.

	completing the land acquisition for the total area (466.503 ha) of proposed development of industrial park.	
7.	The proponent shall furnish the necessary documents for complete land acquisition for the total area (466.503 ha) of proposed development of industrial park to TNPCB before obtaining CTE.	Condition Noted.
8.	The proponent shall furnish the break up details of land acquisition in regard to Patta & Poramboke land excluding areas occupied by water bodies within the proposed total area of industrial park as per the village map together with survey numbers.	Condition Noted.
9.	The proponent shall ensure that the activities should not result in temperature rise, nor lead to rise in carbon dioxide and other gases that add to climate change.	All the member units will be instructed to follow applicable rules and guidelines.
10.	All the existing trees, biodiversity and water bodies within the premises should be protected.	Condition will be complied.
11.	Action should be initiated to cover 33% of the total project area under green belt development with native species.	Condition will be complied.
12.	All mitigation measures as suggested in the EIA / EMP and disaster management plan to be strictly adhered.	All the member units will be instructed to follow applicable rules and guidelines.

PART A - Common condition applicable for Pre-construction, Construction and Operational Phase:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Condition Noted.
2.	The Construction of STP, ETP, 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.	Condition Noted. Construction shall be carried out as per the DTCP approved layout.
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 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) A, 1972, State/Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be	Condition Noted. All the member units will be instructed to obtain all necessary statutory clearances and approvals. Consent to Establish copy is enclosed as Annexure-2.

	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.	Condition Noted. SIPCOT shall comply with all applicable conditions issued in the EC.
6.	A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.	Condition Noted.
7.	The environmental statement for each Financial year ending 31 st March in Form V as is mandated to be submitted by the project proponent to the concerned Pollution Control Board as prescribed under the Environment (protection) Rules, 1986. as amended Subsequently. Shall also be put on the website of the company. The status of compliance of environmental Clearance conditions and shall also be, sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.	Condition complied. The Form V Acknowledgement copy is attached as Annexure -12. The screenshot of EC compliance report uploaded in the company website is attached as Annexure -11.
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.	Condition Noted.
9.	Consent For Establishment" shall be	CTE obtained from TNPCB and the copy

	obtained from the Tamil Nadu pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.	of the same is enclosed as Annexure-2 .
10.	In the case of any changes in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	Condition Noted.
11.	The conditions will be enforced inter- alia. Under the provisions of the Water (Prevention & Control Of pollution) Act, 1974, the Air (prevention Pollution) Act, 1981, the Environment (protection) Act, 1986. The public Liability Insurance Act, 1991, along with their amendments, draft minor mineral Conservation & Development Rules Sale & Control of Act. 1986, the public ,draft Minor Mineral 2010 framed Under MMDR Act 1957,National Commission for protection Of Child Right Rules,2006 and rules Made there under and also any other orders passed by the Hon.ble Supreme Court of India ,Hon'ble High Court of Madras and Any other Courts of Law. Including the Hon'ble National Green Tribunal relating to the subject matter.	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 condition mentioned above may result in withdrawal of this clearance and attract action under the provision of the Environment (Protection) Act, 1986.	SIPCOT shall comply with all applicable conditions issued in the EC.
14.	The proponent shall upload the status of compliance of the stipulated EC	Condition is being complied.

	condition, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bangalore and the TNPCC. The Criteria pollutant levels namely PM 10, PM 2.5, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectional 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 if it is found or if it comes to the Knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or this environmental clearance. Submitted false or misleading Information or inadequate data for obtaining the environmental clearance.	Condition Noted.
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'	Condition Noted.
17.	The SEIAA, TN may alter/modify the above condition in the interest of environmental protection, even during the subsequent period.	Condition Noted.
18.	The Environmental Clearance does not	Condition Noted. All the member units will

	absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administration clearances from other statutory and administrative authorities.	be instructed to obtain all necessary statutory clearances and approvals.
19.	Where the trees need to be cut, compensation plantation in the ratio of 1:10 (planting of 10 trees for every one tree that is cut) should be done with the obligation to continuous maintenance.	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 Annexure - 3.
21.	The EMP cost shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Condition Noted.
22.	The project activity should not cause any disturbance & deterioration of the local bio-diversity.	Condition will be complied.
23.	The project activity should not Impact the water bodies. A detailed inventory of the water bodies forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.	Condition Noted.

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 01.01.2019 under Environment (Protection) Act, 1986.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
26.	As per MoEF & CC GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & wildlife angle as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10 Km from National Park and Sanctuaries.	Not applicable.
27.	Traffic congestion near the entry and exist 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 will be complied. All the member units will be instructed to follow applicable rules and guidelines.
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 schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.	Condition will be complied.

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 will be complied. All the member industries will be mandated to comply with necessary statutory approvals and guidelines.
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 noted and 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.
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 throw away plastic.	Condition will be complied. All the member units will be instructed to follow 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 noted. Construction will be carried out as per the DTCP approved layout.
34.	The CER fund shall be utilized as per the office memorandum of MoEF&CC dated 01.05.2018 before obtaining CTO from TNPCB.	Condition Noted.
35.	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 mandated to obtain all the necessary statutory clearances and approvals as applicable.
36.	The project proponent shall ensure that 33% of the total area of the project site should be covered with greenbelt.	Condition will be complied.
37.	The proponent shall provide Rain Water	Condition will be complied.

	Harvesting pits so as to recharge the ground water table.	
38.	Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.	All the member units will be instructed to follow applicable rules and guidelines.
39.	It is the sole responsibility of the proponent that the treated sewage disposed for greenbelt development /avenue plantation should not pollute the soil/ groundwater/ adjacent canals/ lakes/ ponds, etc.	All the member units will be instructed to comply with.
40.	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.	All the member units will be mandated to provide ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards.
41.	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.	All the member units will be instructed to follow applicable rules and guidelines.
42.	There shall be no discharge of effluent outside the Industrial Park at any time.	All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and not to discharge effluent outside the IP.
43.	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 Noted. All the member units will be instructed to follow applicable rules and guidelines.

Part- B – Specific Conditions – Pre Construction Phase:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that copy of the clearance letter is available with the state pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA- TN.	Condition complied. Newspaper advertisement copy is enclosed as Annexure -5. The copy of the press release has been forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA- TN. Acknowledgement copy of the same is enclosed as Annexure -6.
2.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation	Condition Noted. There is no change in the scope of project.
3.	A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.	Condition complied. The proof of submission of EC copy to Local Body is enclosed as Annexure -7. The clearance letter also uploaded on SIPCOT website. The screenshot is enclosed as Annexure- 8.
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 throughout the construction phase.	Condition Noted. All the member units will be instructed to comply with.
6.	Design of building 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. All the member units will be instructed to obtain necessary statutory approvals and clearances.
8.	No construction activity of any kind shall be taken up in the OSR area.	Condition Noted.
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 Noted. All the member units will be instructed to follow applicable rules and guidelines.
10.	The height and coverage of the constructions shall be in accordance with the existing FSI/ FAR norms as per Coastal Regulation Zone Notification, 2011.	Condition is not applicable. Site does not fall in CRZ area.
11.	The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.	Condition is not applicable. Proposed project is 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 follow applicable rules and guidelines.
13.	The proponent shall prepare completion plans showing Separate pipelines	Condition applicable will be complied.

	marked with different colours with the following details 1. Location of STP, compost system, underground sewer line 2. Pipe Line conveying the treated effluent for green belt development 3. Pipe Line conveying the treated effluent for toilet flushing 4. Water supply pipeline 5. Gas supply pipe line, if proposed 6. Telephone cable 7. Power cable 8. Storm water drains, and	
14.	A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.	Condition will be complied. 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 will be complied.
16.	The green belt area shall be planted With indigenous native trees.	Greenbelt will be developed with native indigenous 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. Overall greenbelt of minimum 33% will be provided in the project site.
18.	During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.	Condition Noted.
19.	The Provisions of Forest conservation	Condition Noted.

	Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.	
20.	There should be Firefighting plan and all required safety plan.	All the member units shall comply with.
21.	Regular fire drills should be held to create awareness among owners/ residents.	All the member units shall comply with.

Part - C – Specific Condition – Construction phase:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
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 SELAA-TN.	Condition Noted.
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.	Condition Noted. All the member units will comply with.
	ii) Personnel working In dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health Surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.	Condition Noted. All the member units will comply with.
	iii) Periodical medical examination of the workers engaged in the project shall be	Condition Noted. All the member units will comply with.

	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.	
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 source.	Condition will be complied.
	ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Condition not applicable. . Local labours will be employed for the project. There will not be any housing for labour.
	iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of wastewater shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.	Condition Noted. All the member units will be instructed to comply with.
	iv) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.	All the member units shall comply with.

	v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.	All the member units shall comply with.
4.	Solid Waste Management:	
	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.	Condition noted 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.	Not applicable. It is development of industrial park
	iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and solid waste management rules 2016.	Condition noted and will be complied. All the member units will be instructed to follow applicable rules and guidelines.
	iv) No waste of any type disposed of in any watercourse including drains, canals and the surrounding environment.	Condition Noted.
	v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.	Condition noted and will be complied. All the member units will be instructed to follow applicable rules and guidelines.
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.	Condition Noted. All the member units will be instructed to comply with.
6.	Construction Debris disposal:	
	i) Disposal of construction debris during construction phase should not create any	Condition will be complied. All the member units will be instructed to

	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.	follow applicable rules and guidelines.
	ii) Construction spoils, including bituminous materials and other hazardous materials must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/lake/ stream etc.	Condition will be complied. All the member units will be instructed to comply with.
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.	All the member units will be instructed to follow applicable rules and guidelines.
	ii) The diesel required for stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of explosives shall be taken.	All the member units will be instructed to obtain necessary approvals / clearances.
	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 will be instructed to follow applicable rules and guidelines.
8.	Air & Noise Pollution Control:	
	i) Vehicles hired for bringing construction	Condition will be complied.

	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.	All the member units will be instructed to follow applicable rules and guidelines.
	ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.	Condition being complied. Ambient Air and Noise monitoring report is enclosed as Annexure – 9. All the member units will be instructed to follow applicable rules and guidelines.
	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 Noted.
	iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	All the member units shall comply with.
9.	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.	All the member units will be instructed to follow applicable rules and guidelines.
	ii) Ready-mix concrete used in building construction and necessary cube tests	All the member units shall comply with.

	should be conducted ascertain their quality.	
	iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.	All the member units will be instructed to follow applicable rules and guidelines.
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.	Condition will be complied. All the member units will be instructed to comply with necessary rules and guidelines.
	ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.	Condition Noted.
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	All the member units will be instructed to follow 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 applicable rules and guidelines.
	iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.	All the member units will be instructed to follow applicable rules and guidelines.
	iv) Application of solar energy should be	Condition Noted.

	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.	All the member units shall 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 comply with.
	vi) Energy conservation installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.	Condition will be complied.
12.	Fire Safety:	
	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 applicable rules and guidelines.
	ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue in the event of emergency shall be made.	Condition will be complied.
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.	Condition will be complied.
	ii) The purpose of Green belt around the project is to capture the fugitive	Condition will be complied. Greenbelt will be developed in minimum 40% of total

emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wild range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be plan ted. If possible Miyawaki method of planting i.e planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout plan to be submitted for CMDA/ DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/ OSR.	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.	Condition Noted.
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.	Layout plan showing the green belt area earmarked with GPS coordinates is enclosed as Annexure- 4. The green belt layout plan is tentative only. However, minimum 40% of the developable area will be provided for green

14.	Sewage Treatment Plant:	
	i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert / reputed academic institutions for its adequacy and a 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 shall comply with.
	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. Individual industries shall comply with.
	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 mandated to provide adequate capacity of STP and the treated sewage will be reused for their greenbelt
	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 mandated to provide adequate capacity of STP and the treated sewage will be reused for their greenbelt
	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 mandated to provide adequate capacity of STP and the treated sewage will be reused for their greenbelt
	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.	STP is not proposed by SIPCOT. Individual industries shall comply with.
15.	Rain Water Harvesting:	
	i) The proponent/Owner of the Flats shall ensure that roof rain water collected from	Condition Noted. All the member units will be instructed to comply with.

	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.	Condition Noted. All the member units will be instructed to comply with.
	iii) The project activity should not cause any disturbance & deterioration of the local bio diversity.	Condition Noted.
16.	Building Safety:	
	Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.	All the member units will be instructed to follow applicable rules and guidelines.

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

Not Applicable – Since the project is under construction phase.

5.0 ENVIRONMENTAL MONITORING DETAILS

It is mandatory to submit six month compliance report (Half Yearly compliance) 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 at site by M/s.

Hubert Enviro Care Systems Pvt. Ltd an NABL accredited laboratory for the period of April 2024 to September 2024.

5.1 Ambient air quality monitoring

The ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored during the period of April 2024 to

September 2024. The test report of ambient air quality is attached as **Annexure -9**.

5.2 Ambient Noise level monitoring

Ambient Noise level was Monitored and the test report of ambient noise recorded during the period of April 2024 to September 2024 and the report is attached as **Annexure - 9**.

5.3 Soil quality monitoring

The soil samples were collected during the period of April 2024 to September 2024 and analyzed for nutrients and heavy metals. The test report of soil samples analyzed is attached as **Annexure -9**.

5.4 Ground water quality monitoring

The ground water samples were collected and analysed during the period of April 2024 to September 2024. The test report of ground water samples is attached as **Annexure -9**.

5.5 Surface water quality monitoring

The surface water samples were collected and analysed during the period of April 2024 to September 2024. The test report of surface water samples collected is attached as **Annexure 9**.

Environmental Monitoring Photographs are enclosed as **Annexure 10**

6.0 CONCLUSION

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

ENVIRONMENTAL
CLEARANCE

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

To,

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

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/TN/NCP/57497/2020 dated 25 Aug 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22B039TN127123 |
| 2. File No. | 7939/2020 |
| 3. Project Type | Now |
| 4. Category | B1 |
| 5. Project/Activity including Schedule No. | 8(b) Townships and Area Development projects. |
| 6. Name of Project | Development of Industrial Park at Thoruveerapandiyapuram Village of Ottapidaram Taluk and Meelavittan village of Thoothukudi Taluk in Thoothukudi District over an extent of 466.503 Ha |
| 7. Name of Company/Organization | STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT) |
| 8. Location of Project | Tamil Nadu |
| 9. TOR Date | 09 Aug 2021 |

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

Date: 07/02/2022

(e-signed)
 Tmt.P.RAJESWARLIFS
 Member Secretary
 SEIAA - (Tamil Nadu)

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

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PARIVESH
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 and Virtuous Environmental Single-Window Hub)*





STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU

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

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F. 7939/EC/ 8(b)/796/2022 dated: 02.02.2022.

To

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

Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed establishment of Industrial Park 466.503Ha at Therkuveerapandiyapuram Village & Meelavittan Village by M/s. State Industries Promotion Corporation of Tamil Nadu Limited at Survey No: 61/1, 62/2, 63/1, 70/1, 70/2, 71, 72/2A, 72/2B, 73/1, 73/2, 73/4, 74/1, 74/3, 74/4, 75/1, 75/2, 75/3A, 75/3B, 75/4, 76/1, 76/2, 76/3, 76/4, 76/5, 76/6, 76/7, 77/1, 77/2, 77/3, 77/4, 77/5, 285/1A, 285/1B, 285/1C, 285/2, 286, 287, 288/1, 288/2, 288/4, 289/3, 326/1, 339, 342, 349, 362/2, 372/2, 374/4, 343/1, 343/2, 343/3A, 343/3B, 350/1, 350/2, 351/1, 351/2A, 351/2B, 351/4, 351/5, 351/6, 353/3, 358/1A, 358/1B, 359/1, 359/2, 359/3, 359/4, 360/1, 360/2, 361/1, 364, 371/1, 371/2, 371/3, 373/1, 373/2, 373/3, 373/4, 363/1, 363/2, 363/3, 363/4, 366/1, 366/2, 366/3, 366/4, 372/1, 372/3, 374/2, 374/3, 375, 376/1A, 376/1B, 406/1, 406/2, 406/3, 301/1, 315/4, 316/3, 317/3, 318/1, 288/3, 351/3, 353/4, 358/2, 361/2, 363/5, 374/1, 61/3, 62/5, 63/5, 65/2, 72/1, 73/1, 74/2, 1/2, 2/1, 2/3, 3/1, 3/3, 14/5, 17/2, 18/2, 19/3, 21/7, 38/1, 38/2, 44/4, 48/3, 51/3, 128/1, 12, 13, 22, 23, 24, 29, 35, 39/2, 50/2, 52/2, 55, 56, 79, 80, 81, 47/1, 47/3, 47/4, 47/5, 47/6, 62/1, 62/3A, 62/3B, 62/3C, 62/3D, 62/4, 62/6A, 62/6B, 62/7, 62/8, 63/2, 63/3, 63/4A, 63/4B, 63/4C, 63/6A, 63/6B, 64/1, 64/2, 65/1, 65/3, 65/4, 65/5,


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Ref: 1. Your application for Terms of Reference dated: 16.10.2020

2. ToR Issued by SEIAA-TN Vide Lt.No.SEIAA-TN/F.No.7939/SEAC/8(b)/ToR-1011/2021 dated: 09.08.2021

3. EIA report submitted to SEIAA-TN on 03.09.2021

4. Minutes of the 233rd SEAC Meeting held on 21.09.2021


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SEIAA-TN

5. Minutes of the 236th SEAC Meeting held on 05.10.2021
6. Minutes of the 239th SEAC Meeting held on 22.10.2021
7. Minutes of the 483rd SELAA Meeting held on 28.01.2022

This has reference to your application 3rd 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 Lakshminipathy Road Post Box no.7223 Egmore Chennai-600 008.
2)	Proposed Activity	Proposed establishment of Industrial Park at Therkuveerapandiyapuram Village & Meelavittan Village
3)	Schedule No.	8(b)
4)	Project Location	
	i) Survey No	With a total area of 466.503Ha(1152.26 Acres) 466.503Ha of S.F.Nos. Therkuveerapandiyapuram Village (Survey No: 61/1, 62/2, 63/1, 70/1, 70/2, 71, 72/2A, 72/2B, 73/1, 73/2, 73/4, 74/1,


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		45/2A, 45/2B, 45/2C, 45/2D, 45/3A,45/3B, 45/3C, 45/4A, 45/4B, 45/4C, 45/5A1, 45/5A2, 45/5B, 45/5C, 45/5D1, 45/5D2, 45/5D3, 46/1, 46/2, 47/1A, 47/1B, 47/1C, 47/1D, 47/1E, 47/1F, 47/2, 47/3A, 47/3B, 47/3C, 47/3D, 47/4A, 47/4B, 47/4C, 47/4D, 48/1, 48/2, 49/1, 49/2, 50/1, 50/2, 51, 52/1, 52/2, 26/3A, 26/4, 33/Pl, 34/1A1, 34/1A2, 34/1B2, 34/2A, 34/2B, 34/2C, 34/2D, 34/3, 34/4, 38/4Pl, 39/1, 39/2, 41/1, 41/2, 42/1, 42/2, 43/1,43/2,44/1A, 44/1B1, 44/1B2, 44/2A, 44/2B1, 44/2B2, 44/2B3, 44/3A1, 44/3B1A, 44/3B1B, 44/3B2A, 44/3B2B)of Ottapidaram Taluk & Thoothukudi Taluk, Thoothukudi District, Tamil Nadu								
	ii)Revenue Village	Therkuveerapandiyapuram, Meelayitan Village								
	iii)Taluk	Ottapidaram & Thoothukudi								
	iv)District	Thoothukudi								
5)	Area of the Land	With a total area of 466.503Ha(1152.26 Acres)								
6)	Built up Area									
	<table><tr><th>IP land breakup</th><th>Area (acres)</th><th>Area Ha</th><th>%</th></tr><tr><td>Allotable plot (33% of greenbelt - 258.631 acres</td><td>726.97</td><td>294.32</td><td>66.08</td></tr></table>	IP land breakup	Area (acres)	Area Ha	%	Allotable plot (33% of greenbelt - 258.631 acres	726.97	294.32	66.08	
IP land breakup	Area (acres)	Area Ha	%							
Allotable plot (33% of greenbelt - 258.631 acres	726.97	294.32	66.08							

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(included)			
Common Amenities	22.200	8.91	2.00
Commercial Activities	33.00	13.36	3.00
Road and Storm water drain	61.766	25.01	5.61
Solid waste mgt	5.00	2.03	0.45
OSR area	103.84	42.04	9.44
Greenbelt	147.55	59.73	13.42
Total developable area	1100.136	445.4	100
Oldai	22.316	9.035	-
Proposed railway track	10.82	4.38	-
Hi Tension power line with 35m RoW	18.99	7.688	-
Total area	1152.262	466.503	-

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 development, and such other amenities.

Industrial Park will house industries which do not fall under EIA Notification 2009 and amendments thereof. The proposed industries include the following:

- All General Engineering units such as fabrication, machining, forging, castings etc.,
- Auto components Industries.
- Food Processing Industries.
- Packaging units.

Any other industries that are not under the purview of EIA Notification, 2006


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S.No	Industry Sector	% of plotted area	Area in Acres	Area in Ha
1	Engineering /Auto components/Furniture Manufacturing	40	290.79	117.73
2	Packaging industries	10	72.70	29.43
3	Agro & Food	10	72.70	29.43
4	Eco friendly building materials (Fly ash bricks/ blocks manufacturing etc.)	10	72.70	29.43
5	Electronics/Electrical and Allied industries	5	36.35	14.72
6	Any other industries Not under the preview of EIA Notification 2006 and its amendments (Fiber glass, Dry Textile, Solar panels and its components etc)	25	181.74	73.58
	Total	100	726.97	294.32

8) Green Belt

Greenbelt	Area in acres	Area in Ha	Area %
OSR	103.84	42.04	9.44
33% Greenbelt in plot area (including the periphery of industries also)	239.9	97.13	21.81
Greenbelt 3m along road side	19.83	8.03	1.8
Peripheral Greenbelt area (15m wide)	127.72	51.7	11.62
Total area	491.29	198.9	44.65

9) UTILITIES-WATER

Total water requirement: 11566 kLD)


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Fresh water: 905 KLD Recycled water: 3920KLD Green belt: 6741KLD Operation phase:				
Water source	Fresh water(KLD)	Recycled water(KLD)	Treated sewage from Tharuvaikulam STP (KLD)	Total (KLD)
Domestic	400	0	0	400
Flushing	0	200	0	200
utilities	540	2140	0	2680
Process				
Green belt development	0	360	6602	6962
Total	940	2700	6602	10242
Note: Domestic water @30 L/person/day & Flushing water (domestic) @15 L/person/day Water requirement for Process @ 5KL/Acre Water for green belt @35KL/Ha Water for common amenities @3KL/Acre Water for commercial activities @5KL/Acre.				
10)	a) Source from where the water is proposed to be drawn	Fresh water: From Existing SIPCOT water supply scheme from Thaminaharani river Treated sewage: from Thoothukudi Municipal Corporation from Tharuvaikulam STP		
	b) Sewage system	Sewage: 560KLD-STP by individual industries and treated sewage will be used for Greenbelt. ZLD will be maintained by individual industries.		
	c) ETP & Recycle line	Effluent: 2150KLD-ETP, MEE and RO by individual industries and treated effluent will be used for utilities. ZLD		


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		will be maintained by individual industries.
11)	Solid Waste Management	
	Component	Construction phase kg/day
	MSW organic waste	30
	MSW inorganic waste	20
	Hazardous waste	Used oil from construction DGs
		Operation phase kg/day
		3510
		2340
		Individual Industries will have their own STP
12)	Power requirement	49 MVA from TANGEDCO
13)	Project Cost	Rs. 253Crores
14)	EMP-Cost	Rs. 3134Lakhs

Annexure 2- Affidavit

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

I, Thiru. T. Anand, I.A.S, Managing Director, Authorized Signatory, representing M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCO) having registered office at 19-A, Rukmani Lakshmi pathy Road, Egmore, Chennai - 600008, for the proposed "Development of Industrial Park over an extent of 466.503 Hectares (1152.262 acres) at Therkurveerapandiyapuram Village (Survey No: 61/1, 62/2, 63/1, 70/1, 70/2, 71, 72/2A, 72/2B, 73/1, 73/2, 73/4, 74/1, 74/3, 74/4, 75/1, 75/2, 75/3A, 75/3B, 75/4, 76/1, 76/2, 76/3, 76/4, 76/5, 76/6, 76/7, 77/1, 77/2, 77/3, 77/4, 77/5, 285/1A, 285/1B, 285/1C, 285/2, 286, 287, 288/1, 288/2, 288/4, 289/3, 326/1, 339, 342, 349, 362/2, 372/2, 374/4, 343/1, 343/2, 343/3A, 343/3B, 350/1, 350/2, 351/1, 351/2A, 351/2B, 351/4, 351/5, 351/6, 353/3, 358/1A, 358/1B, 359/1, 359/2, 359/3, 359/4, 360/1, 360/2, 361/1, 364, 371/1, 371/2, 371/3, 373/1, 373/2, 373/3, 373/4, 363/1, 363/2, 363/3, 363/4, 366/1, 366/2, 366/3, 366/4, 372/1, 372/3, 374/2, 374/3, 375, 376/1A, 376/1B, 406/1, 406/2, 406/3, 301/1, 315/4, 316/3, 317/3, 318/1, 288/3, 351/3, 353/4, 358/2, 361/2, 363/5, 374/1, 61/3, 62/5, 63/5, 65/2, 72/1, 73/1, 74/2, 1/2, 2/1, 2/3, 3/1, 3/3, 14/5, 17/2, 18/2, 19/3, 21/7, 38/1, 38/2, 44/4, 48/3, 51/3, 128/1, 12, 13, 22, 23, 24, 29, 35, 39/2,


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50/2, 52/2, 55, 56, 79, 80, 81, 47/1, 47/3, 47/4, 47/5, 47/6, 62/1, 62/3A, 62/3B, 62/3C, 62/3D, 62/4, 62/6A, 62/6B, 62/7, 62/8, 63/2, 63/3, 63/4A, 63/4B, 63/4C, 63/6A, 63/6B, 64/1, 64/2, 65/1, 65/3, 65/4, 65/5, 307/1, 307/2, 308/1, 308/2, 309, 316/1, 316/2, 316/4, 316/5, 317/1, 317/2, 61/2, 61/4, 310, 311/1A, 311/1B, 311/2A, 311/2B, 311/2C, 312, 313/1, 313/2, 314, 315/1, 315/2, 315/3, 1/1A, 1/1B, 1/3, 2/2, 2/4, 2/5, 3/2A, 3/2B, 4/1, 4/2, 4/3, 6/1, 6/2, 6/3, 6/4, 7, 8/1, 8/2, 9, 10/1, 10/2, 10/3, 10/4, 11/1, 11/2, 11/3, 17/1, 18/1, 19/1, 19/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/4C, 21/4D, 21/5, 21/6, 5, 82/1, 82/2, 83/1, 83/2, 88/1, 88/2, 88/3A, 88/3B, 88/3C, 84/1, 84/2, 85/1, 85/2, 86/1, 86/2, 87, 89, 90/1A, 90/1B, 90/2, 124/1, 124/2, 124/3, 124/4, 124/5, 124/6, 126/1, 126/2, 127/1, 127/2, 127/3, 127/4, 128/2, 128/3, 128/4, 128/5, 14/1, 14/2, 14/3, 14/4, 15/1, 15/2, 15/3, 16/1, 16/2, 20, 25/1, 25/2, 25/3, 25/4, 25/5A, 25/5B, 26, 30/1, 30/2, 27/1A, 27/1B, 27/2, 28, 31/1, 31/2, 31/3, 32/1, 32/2A, 32/2B, 32/2C, 32/2D, 32/2E, 33/1, 33/2, 33/3, 33/4, 33/5, 33/6, 34, 36/1, 36/2, 37/1, 37/2, 41/1, 41/2, 78/1A, 78/1B, 78/1C, 78/1D, 78/1E, 78/1F, 78/2, 78/3, 40/1, 40/2, 42/1, 42/2, 43/1, 43/2, 43/3, 44/1, 44/2, 44/3A, 44/3B, 48/1A1, 48/1A2, 48/1B, 48/2A, 48/2B, 48/2C, 49, 50/1, 50/3, 51/1, 51/2, 51/4A, 51/4B, 51/5, 51/3, 39/1, 39/3, 52/1, 52/3, 52/4, 52/5, 53/1, 53/2, 53/3, 53/4, 54/1, 54/2, 54/3A, 54/3B, 54/3C, 54/4, 57/1, 57/2, 58/1, 58/2, 59/1, 59/2, 59/3, 60) & Meelavittan Village (Survey No: 26/6, 40/4, 46/3, 47/5, 45/1A, 45/1B, 45/2A, 45/2B, 45/2C, 45/2D, 45/3A, 45/3B, 45/3C, 45/4A, 45/4B, 45/4C, 45/5A1, 45/5A2, 45/5B, 45/5C, 45/5D1, 45/5D2, 45/5D3, 46/1, 46/2, 47/1A, 47/1B, 47/1C, 47/1D, 47/1E, 47/1F, 47/2, 47/3A, 47/3B, 47/3C, 47/3D, 47/4A, 47/4B, 47/4C, 47/4D, 48/1, 48/2, 49/1, 49/2, 50/1, 50/2, 51, 52/1, 52/2, 26/3A, 26/4, 33/Pt, 34/1A1, 34/1A2, 34/1B2, 34/2A, 34/2B, 34/2C, 34/2D, 34/3, 34/4, 38/4Pt, 39/1, 39/2, 41/1, 41/2, 42/1, 42/2, 43/1, 43/2, 44/1A, 44/1B1, 44/1B2, 44/2A, 44/2B1, 44/2B2, 44/2B3, 44/3A1, 44/3B1A, 44/3B1B, 44/3B2A, 44/3B2B) of Ottapidaram & Thoothukudi Taluks, Thoothukudi District, Tamil Nadu State, hereby take oath and state as under in this affidavit:

1. The total water requirement of the park is estimated at 10242 KLD (Fresh water: 940 KLD, Treated sewage from Thoothukudi Municipality: 6602 KLD (for green belt) and Recycled water: 2700 KLD). Fresh water requirement for the Industrial Park is proposed to be sourced from existing SIPCOT water supply scheme from Thamirabarani River and treated sewage will be sourced from Thoothukudi Municipality's STP at Tharuvakulam.


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- II. Power Supply (49 MVA) will be ensured from Tamil Nadu Generation and Distribution Co. Ltd. (TANGEDCO) Facility as a common supply system by SIPCOT to all member industries. The Individual industries will avail power supply from TANGEDCO and may have backup DG sets as per their requirement.
- III. All member industries will be instructed to provide rain water harvesting structures as per norms. SIPCOT will construct Rainwater harvesting pits along the storm water drain for recharging ground water.
- IV. Storm water drainage will be provided as open concrete channels all along the road for ensuring proper collection of storm water and the same will be used for charging the rain water harvesting structures. We confirm that the storm water drain would not carry any untreated (or) treated sewage.
- V. All member industries will be mandated to have their own solid waste and hazardous storage facility within their Plot. Inorganic waste will be sold to TNPCB authorized recyclers by member units. SIPCOT has earmarked 5.00 Acres of land for establishment of Solid Waste Management facility.
- VI. All member industries will be mandated to store and dispose the hazardous waste generated within their premises as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- VII. Individual industries will be mandated to provide STP/ETP for adequate capacity and maintain Zero Liquid Discharge (ZLD) system.
- VIII. Overall Green Belt area of the park would be = 491.29 acres i.e., 44.65% of developable area i.e., 1100.136 acres through Forest Department.

Greenbelt	Area (Ha)	Area (Acres)
OSR	42.04	103.84
33% Greenbelt in plot area by member units	97.13	239.90
Greenbelt 3m along road side	8.03	19.83
Additional Greenbelt	51.70	127.72
Total area	198.90	491.29

- IX. EMP cost of the park is INR 3134 Lakhs. Details are given below:


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Sl.No	Project Components	Tentative Cost (Rs. in lakhs)
1	Storm Water drains	2677.00
2	Solar Street Lights	180.00
3	Green Belt Development	47.00
4	Rain Water Harvesting	180.00
5	Solid Waste Management	25.00
6	Medical Dispensary	25.00
	Total EMP Cost	3134.00

- X. As per Office Memorandum dated 1st May, 2018 from MoEF&CC, SIPCOT will earmark INR 3.79 crores i.e 1.5% of the project cost towards Corporate Environment Responsibility (CER) activities. As per OM- F. No. 22-23/2018-IA.III (Pt) Dated: 31.10.2019, if project is coming under Severely Polluted Area (SPA) then CER amount should be 1.5 times of normal fund. Accordingly, total CER budget earmarked is INR 5.70 Crores.

Declaration

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

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.

SEAC Remarks:

The proposal was again placed for appraisal in this 239th meeting of SEAC held on 22.10.2021. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of issue of Environmental Clearance subject to the following specific conditions, in addition to normal conditions stipulated by MOEF&CC:


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1. The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.
2. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SELAA.
3. The height of the stacks of DG sets shall be provided as per the CPCB norms.
4. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
5. The proponent shall make proper arrangement for the disposal of the treated water from the proposed site for Toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
6. The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.
7. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
8. The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/OSR.


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9. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed.
10. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
11. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
12. No waste of any type to be disposed off in any other way other than the approved one.
13. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
14. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal. Sewage treatment & disposal etc shall be followed strictly.
15. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
16. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
17. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
18. Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
19. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 & 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER and furnish the same before placing the subject to SEIAA.


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SEIAA Remarks:

The subject was placed in the 483rd Authority meeting held on 28.01.2022. After detailed discussions, the Authority accepted the recommendation of SEAC and decided to grant of Environmental Clearance subject to the conditions as recommended by SEAC & normal condition in addition to the following conditions:

1. The proponent shall ensure that all the construction of Buildings by the individual Industry shall be energy efficient and conform the green building norms.
2. The proponent shall provide the adequate health care facility within the premises.
3. The proponent shall provide the adequate parking facility within the premises , with clear traffic plan.
4. The proponent shall ensure that eateries provided if any within the premises shall be maintained in hygienic way.
5. The proponent shall ensure that no treated or untreated trade effluent/sewage shall be discharged outside the premises under any circumstances.
6. The proponent shall start the development of Industrial Park only after completing the land acquisition for the total area (466.503 ha) of proposed development of industrial park.
7. The proponent shall furnish the necessary documents for complete land acquisition for the total area (466.503 ha) of proposed development of industrial park to TNPCB before obtaining CTE.
8. The proponent shall furnish the break - up details of land acquisitioned in regard to patta & poramboke land excluding areas occupied by water bodies within the proposed total area of industrial park as per the village map together with survey numbers.
9. The proponent shall ensure that the activities should not result in temperature rise, nor lead to rise in carbon dioxide and other gases that add to climate change.
10. All the existing trees, biodiversity and water bodies within the premises should be protected.
11. Action should be initiated to cover 33% of the total project area under green belt development with native species.


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12. All mitigation measures as suggested in the EIA/EMP and disaster management plan to be strictly adhered.

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 14th 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


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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 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 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.


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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.
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.


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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 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, Govt, 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 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


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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 CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.
35. The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
36. The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.
37. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
38. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
39. 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.
40. 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.
41. 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
42. There shall be no discharge of effluent outside the Industrial Park at any time.


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43. 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.
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.


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


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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.
- 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


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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 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.


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- i) 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.
- 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.


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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.
- 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


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be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.

- vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

12. Fire Safety:

- i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.
- 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 aesthetic. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/OSR.


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- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.
- iv) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval

14. Sewage Treatment Plant:

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


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- (iii) The project activity should not cause any disturbance & deterioration of the local bio diversity.

16. Building Safety:

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

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

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


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resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.

10. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
11. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
12. The project activities should in no way disturb the manmade structures.
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.

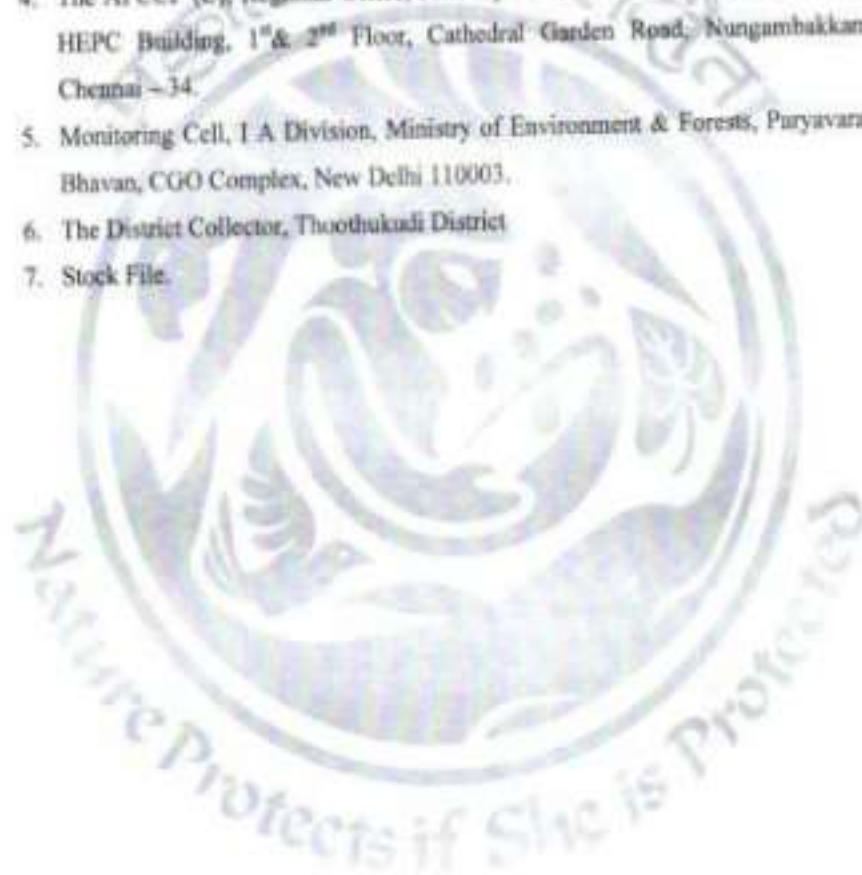

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19. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
20. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
21. The E - waste generated should be 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.
29. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.


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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, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34.
5. Monitoring Cell, I-A Division, Ministry of Environment & Forests, Puryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Thoothukudi District
7. Stock File.





TAMILNADU POLLUTION CONTROL BOARD

Category of the Industry :

RED



CONSENT ORDER NO. 2201241542929 DATED: 29/07/2022.

PROCEEDINGS NO.T4/TNPCB/F.1589TTN/RL/TTN/A/2022 DATED: 29/07/2022



SUB: TNPC Board-Consent for Establishment-M/s. SIPCOT INDUSTRIAL PARK, THOOTHUKUDI , S.F. No. S.F.nos. : 61/1, 62/2, 63/1, 70/1, 70/2, 71, 72/2A, 72/2B, 73/1, 73/2, 73/4, 74/1, 74/3, 74/4, 75/1, 75/2, 75/3A, 75/3B, 75/4, 76/1, 76/2, 76/3, 76/4, 76/5, 76/6, 76/7, 77/1, 77/2, 77/3, 77/4, 77/5, 285/1A, 285/1B, 285/1C, 285/2, 286, 287, 288/1, 288/2, 288/4, 289/3, 326/1, 339, 342, 349, 362/2, 372/2, 374/4, 343/1, 343/2, 343/3A, 343/3B, 350/1, 350/2, 351/1, 351/2A, 351/2B, 351/4, 351/5, 351/6, 353/3, 358/1A, 358/1B, 359/1, 359/2, 359/3, 359/4, 360/1, 360/2, 361/1, 364, 371/1, 371/2, 371/3, 373/1, 373/2, 373/3, 373/4, 363/1, 363/2, 363/3, 363/4, 366/1, 366/2, 366/3, 366/4, 372/1, 372/3, 374/2, 374/3, 375, 376/1A, 376/1B, 406/1, 406/2, 406/3, 301/1, 315/4, 316/3, 317/3, 318/1, 288/3, 351/3, 353/4, 358/2, 361/2, 363/5, 374/1, 61/3, 62/5, 63/5, 65/2, 72/1, 73/1, 74/2, 1/2, 2/1, 2/3, 3/1, 3/3, 14/5, 17/2, 18/2, 19/3, 21/7, 38/1, 38/2, 44/4, 48/3, 51/3, 128/1, 12, 13, 22, 23, 24, 29, 35, 38/2, 50/2, 52/2, 55, 56, 79, 80, 81, 47/1, 47/3, 47/4, 47/5, 47/6, 62/1, 62/3A, 62/3B, 62/3C, 62/3D, 62/4, 62/6A, 62/6B, 62/7, 62/8, 63/2, 64/3, 63/4A, 63/4B, 63/4C, 63/6A, 63/6B, 64/1, 64/2, 65/1, 65/3, 65/4, 65/5, 307/1, 307/2, 308/1, 308/2, 309, 316/1, 316/2, 316/4, 316/5, 317/1, 317/2, 61/2, 61/4, 310, 311/1A, 311/1B, 311/2A, 311/2B, 311/2C, 312, 313/1, 313/2, 314, 315/1, 315/2, 315/3, 1/1A, 1/1B, 1/3, 2/2, 2/4, 2/5, 3/2A, 3/2B, 4/1, 4/2, 4/3, 6/1, 6/2, 6/3, 6/4, 7, 8/1, 8/2, 9, 10/1, 10/2, 10/3, 10/4, 11/1, 11/2, 11/3, 17/1, 18/1, 19/1, 19/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/4C, 21/4D, 21/5, 21/6, 5, 82/1, 82/2, 83/1, 83/2, 88/1, 88/2, 88/3A, 88/3B, 88/3C, 84/1, 84/2, 85/1, 85/2, 86/1, 86/2, 87, 89, 90/1A, 90/1B, 90/2, 124/1, 124/2, 124/3, 124/4, 124/5, 124/6, 126/1, 126/2, 127/1, 127/2, 127/3, 127/4, 128/2, 128/3, 128/4, 128/5, 14/1, 14/2, 14/3, 14/4, 15/1, 15/2, 15/3, 16/1, 16/2, 28, 25/1, 25/2, 25/3, 25/4, 25/5A, 25/5B, 26, 30/1, 30/2, 27/1A, 27/1B, 27/2, 28/1/1, 31/2, 31/3, 32/1, 32/2A, 32/2B, 32/2C, 32/2D, 32/2E, 33/1, 33/2, 33/3, 33/4, 33/5, 33/6, 34, 36/1, 36/2, 37/1, 37/2, 41/1, 41/2, 78/1A, 78/1B, 78/1C, 78/1D, 78/1E, 78/1F, 78/2, 78/3, 40/1, 40/2, 42/1, 42/2, 43/1, 43/2, 43/3, 44/1, 44/2, 44/3A, 44/3B, 48/1A1, 48/1A2, 48/1B, 48/2A, 48/2B, 48/2C, 49, 50/1, 50/3, 51/1, 51/2, 51/4A, 51/4B, 51/5, 51/3, 39/1, 39/3, 52/1, 52/3, 52/4, 52/5, 53/1, 53/2, 53/3, 53/4, 54/1, 54/2, 54/3A, 54/3B, 54/3C, 54/4, 57/1, 57/2, 58/1, 58/2, 59/1, 59/2, 59/3, 60 of Therkavetrupandiyapuram Village in Ottapidaram Taluk & S.F.nos. 26/6, 40/4, 46/3, 47/5, 45/1A, 45/1B, 45/2A, 45/2B, 45/2C, 45/2D, 45/3A, 45/3B, 45/3C, 45/4A, 45/4B, 45/4C, 45/5A1, 45/5A2, 45/5B, 45/5C, 45/5D1, 45/5D2, 45/5D3, 46/1, 46/2, 47/1A, 47/1B, 47/1C, 47/1D, 47/1E, 47/1F, 47/2, 47/3A, 47/3B, 47/3C, 47/3D, 47/4A, 47/4B, 47/4C, 47/4D, 48/1, 48/2, 49/1, 49/2, 50/1, 50/2, 51, 52/1, 52/2, 26/3A, 26/4, 33/3P, 34/1A1, 34/1A2, 34/1B2, 34/2A, 34/2B, 34/2C, 34/2D, 34/3, 34/4, 38/4P, 39/1, 39/2, 41/1, 41/2, 42/1, 42/2, 43/1, 43/2, 44/1A, 44/1B1, 44/1B2, 44/2A, 44/2B1, 44/2B2, 44/2B3, 44/3A1, 44/3B1A, 44/3B1B, 44/3B2A, 44/3B2B of Milavittan Village in Thoonthukudi Taluk, Thoonthukudi District, Tamil Nadu, THERKU V P PURAM village, Ottapidaram Taluk and Thoonthukudi 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. U/s application for CTE on 14.02.2022/ 12.04.2022
2. IR No. F.1589TTN/RL/AEE/TTN/2022 dated 22.06.2022
3. Minutes of TSC Resolution No.201-05 dated 21.07.2022

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

The Managing Director,

M/s. SIPCOT INDUSTRIAL PARK, THOOTHUKUDI

S.F.No.S.F.nos. : 61/1, 62/2, 63/1, 70/1, 70/2, 71, 72/2A, 72/2B, 73/1, 73/2, 73/4, 74/1, 74/3, 74/4, 75/1, 75/2, 75/3A,



753B, 754, 767, 762, 763, 764, 765, 766, 767, 771, 772, 773, 774, 775, 2851A, 2851B, 2851C, 2862, 286, 287, 288, 289, 289A, 289B, 289C, 291, 290, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 10



TAMILNADU POLLUTION CONTROL BOARD

45/2D, 45/3A, 45/3B, 45/3C, 45/4A, 45/4B, 45/4C, 45/5A1, 45/5A2, 45/5B, 45/5C, 45/6D1, 45/5D2, 45/5D3, 45/1, 46/2, 47/1A, 47/1B, 47/1C, 47/1B, 47/1E, 47/2, 47/3A, 47/3B, 47/3C, 47/3D, 47/4A, 47/4B, 47/4C, 47/4D, 48/1, 48/2, 49/1, 49/2, 50/1, 50/2, 51, 52/1, 52/2, 53/1A, 53/1B, 53/1C, 54/1A1, 54/1A2, 54/1B2, 54/2A, 54/2B, 54/2C, 54/2D, 54/3, 54/4, 54/4P, 55/1, 56/2, 41/1, 41/2, 42/1, 42/2, 43/1, 43/2, 44/1A, 44/1B1, 44/1B2, 44/2A, 44/2B1, 44/2B2, 44/2B3, 44/3A1, 44/3B1A, 44/3B1B, 44/3B2A, 44/3B2B of Milesian Village in Theothukudi Taluk, Theothukudi District, Tamil Nadu.

THEKKU V P PURAM Village.

Ottapidaram Taluk.

Theothukudi District.

This Consent to establish is valid upto **February 01, 2029**, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and Control of Pollution) Act, 1986, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

**RAGUPATHI
SANGANAN**

Digitally signed by Ragupathi
Sanganan
Date: 2023.07.26 14:52:51 +05'30'

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

To
The Managing Director,
M + S PUTH INDUSTRIAL PARK, THEOTHUKUDI,
State Industries Promotion Corporation of Tamil Nadu Limited, 19-A, Sakunthi Lalakshmi Pathy Road, Post Box No. 7223, Egmore,
Chennai.
Pin: 600008

Cc's to:

1. The Commissioner, OTTAPIDARAM Panchayat Union, Ottapidaram Taluk, Theothukudi District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THEOTHUKUDI.
3. The JCT-Manning, Tamil Nadu Pollution Control Board, THIRUNELVELI
4. File

SPECIAL CONDITIONS

1. This consent to establish is valid for establishing the facility for the manufacture of products/hyproducts (Col. 2) at the rate (Col. 3) mentioned below. Any change in the product/hyproduct 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
Product Details			
1.	SIPCOT Industrial Park at Thoothukudi is an infrastructure development project in a total area of 466.503 Hectares (1152.262 Acres). It involves development and maintenance of infrastructure such as roads, storm water drains, water supply, power supply through TANGEDCO, street lights, green belt development and other such amenities to accommodate following type of industries: 1. Engineering /Auto components/Furniture Manufacturing 2. Packaging Industries 3. Agro & Food 4. Eco friendly building materials (Fly ash bricks/ blocks manufacturing etc.) 5. Electronics/Electrical and Allied industries 6. Any other industries Not under the preview of EIA Notification 2006 and its amendments.	466.503	Hectares
By-Product Details			
1.	Nil	0	0

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.

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm ³ /hr
II Fugitive/Noise emission :				
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/Lab/ DD(L)/02151/2019 dated 10.06.2020 issued by TNPCB.
- The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

4. Additional Conditions:



TAMILNADU POLLUTION CONTROL BOARD

1. The SIPCOT shall comply with the conditions stipulated in the Environmental Clearance obtained from SELAA, TN vide Letter No. SEIAATN/F.7939/EC/8(b)/796/2022 dated 02.02.2022.
2. The SIPCOT shall ensure that no process emission is let out from its activity.
3. The SIPCOT shall conduct Ambient Noise level survey report and Ambient Air Quality survey report for base line data to assess the quality of Ambient Air and Ambient Noise level and submit the report within one month's time.
4. The SIPCOT shall ensure that the allotted industries provide adequate APC/ acoustic/ odour control measures, so as to ensure that the emission satisfy the AAQ/SM-ANL standards prescribed by the Board and for containment of odour emanating from the industries.
5. The SIPCOT shall initiate action to develop green belt in 33% of total area with native species.
6. The unit shall remit consent fee in case of revision by the Government.

**RAGUPATHI
SANGANAN**

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



TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS

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

RAGUPATHI
SANGANAN

Digitally signed by Ragupathi Sanganan
DN: cn=Ragupathi Sanganan, o=Tamil Nadu Pollution Control Board, email=rsanganan@tnpcb.org

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai



TAMILNADU POLLUTION CONTROL BOARD

Category of the Industry :

RED



CONSENT ORDER NO. 2201141542920 DATED: 29/07/2022.

PROCEEDINGS NO.T4/TNPCB/F.1589TTN/RL/TTN/W/2022 DATED: 29/07/2022



SUB: TNPC Board-Consent for Establishment-M/S SIPCOT INDUSTRIAL PARK, THOOTHUKUDI S.F No. S.F.nos. 61/1, 62/2, 63/1, 70/1, 70/2, 71, 72/2A, 72/2B, 73/1, 73/2, 73/4, 74/1, 74/3, 74/4, 75/1, 75/2, 75/3A, 75/3B, 75/4, 76/1, 76/2, 76/3, 76/4, 76/5, 76/6, 76/7, 77/1, 77/2, 77/3, 77/4, 77/5, 285/1A, 285/1B, 285/1C, 285/2, 286, 287, 288/1, 288/2, 288/4, 289/3, 326/1, 339, 342, 349, 362/2, 372/2, 374/4, 343/1, 343/2, 343/3A, 343/3B, 350/1, 350/2, 351/1, 351/2A, 351/2B, 351/4, 351/5, 351/6, 353/3, 358/1A, 358/1B, 359/1, 359/2, 359/3, 359/4, 360/1, 360/2, 361/1, 364, 371/1, 371/2, 371/3, 373/1, 373/2, 373/3, 373/4, 363/1, 363/2, 363/3, 363/4, 366/1, 366/2, 366/3, 366/4, 372/1, 372/3, 374/2, 374/3, 375, 376/1A, 376/1B, 406/1, 406/2, 406/3, 301/1, 315/4, 316/3, 317/3, 318/1, 280/3, 351/3, 353/4, 358/2, 361/2, 363/5, 374/1, 61/3, 62/5, 63/5, 65/2, 72/1, 73/1, 74/2, 1/2, 2/1, 2/3, 3/1, 3/3, 14/5, 17/2, 18/2, 19/3, 21/7, 38/1, 38/2, 44/4, 48/3, 51/3, 126/1, 12/13, 22, 23, 24, 29, 35, 39/2, 50/2, 52/2, 55, 56, 79, 80, 81, 47/1, 47/3, 47/4, 47/5, 47/6, 62/1, 62/3A, 62/3B, 62/3C, 62/3D, 62/4, 62/6A, 62/6B, 62/7, 62/8, 63/2, 63/3, 63/4A, 63/4B, 63/4C, 63/6A, 63/6B, 64/1, 64/2, 65/1, 65/3, 65/4, 65/5, 307/1, 307/2, 308/1, 308/2, 309, 316/1, 316/2, 316/4, 316/5, 317/1, 317/2, 61/2, 61/4, 310, 311/1A, 311/1B, 311/2A, 311/2B, 311/2C, 312, 313/1, 313/2, 314, 315/1, 315/2, 315/3, 1/1A, 1/1B, 1/3, 2/2, 2/4, 2/5, 3/2A, 3/2B, 4/1, 4/2, 4/3, 6/1, 6/2, 6/3, 6/4, 7, 8/1, 8/2, 9, 10/1, 10/2, 10/3, 10/4, 11/1, 11/2, 11/3, 17/1, 18/1, 19/1, 19/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/4C, 21/4D, 21/5, 21/6, 5, 82/1, 82/2, 83/1, 83/2, 88/1, 88/2, 88/3A, 88/3B, 88/3C, 84/1, 84/2, 85/1, 85/2, 86/1, 86/2, 87, 89, 90/1A, 90/1B, 90/2, 124/1, 124/2, 124/3, 124/4, 124/5, 124/6, 126/1, 126/2, 127/1, 127/2, 127/3, 127/4, 128/2, 128/3, 128/4, 128/5, 14/1, 14/2, 14/3, 14/4, 15/1, 15/2, 15/3, 16/1, 16/2, 20, 25/1, 25/2, 25/3, 25/4, 25/5A, 25/5B, 26, 30/1, 30/2, 37/1A, 27/1B, 27/2, 28/31/1, 31/2, 31/3, 32/1, 32/2A, 32/2B, 32/2C, 32/2D, 32/2E, 33/1, 33/2, 33/3, 33/4, 33/5, 33/6, 34, 36/1, 36/2, 37/1, 37/2, 41/1, 41/2, 78/1A, 78/1B, 78/1C, 78/1D, 78/1E, 78/1F, 78/2, 78/3, 40/1, 40/2, 42/1, 42/2, 43/1, 43/2, 43/3, 44/1, 44/2, 44/3A, 44/3B, 48/1A1, 48/1A2, 48/1B, 48/2A, 48/2B, 48/2C, 49, 50/1, 50/3, 51/1, 51/2, 51/4A, 51/4B, 51/5, 51/5, 39/1, 39/3, 52/1, 52/3, 52/4, 52/5, 53/1, 53/2, 53/3, 53/4, 54/1, 54/2, 54/3A, 54/3B, 54/3C, 54/4, 57/1, 57/2, 58/1, 58/2, 59/1, 59/2, 59/3, 60 of Therkuvapuram Village in Ottapidaram Taluk & S.F.nos. 26/6, 40/4, 46/3, 47/5, 45/1A, 45/1B, 45/2A, 45/2B, 45/2C, 45/2D, 45/3A, 45/3B, 45/3C, 45/4A, 45/4B, 45/4C, 45/5A1, 45/5A2, 45/5B, 45/5C, 45/5D1, 45/5D2, 45/5D3, 46/1, 46/2, 47/1A, 47/1B, 47/1C, 47/1D, 47/1E, 47/1F, 47/2, 47/3A, 47/3B, 47/3C, 47/3D, 47/4A, 47/4B, 47/4C, 47/4D, 48/1, 48/2, 49/1, 49/2, 50/1, 50/2, 51, 52/1, 52/2, 26/3A, 26/4, 33/Pl, 34/1A1, 34/1A2, 34/1B2, 34/2A, 34/2B, 34/2C, 34/2D, 34/3, 34/4, 38/4Pl, 39/1, 39/2, 41/1, 41/2, 42/1, 42/2, 43/1, 43/2, 44/1A, 44/1B1, 44/1B2, 44/2A, 44/2B1, 44/2B2, 44/2B3, 44/3A1, 44/3B1A, 44/3B1B, 44/3B2A, 44/3B2B of Milavittan Village in Thoonthukudi Taluk, Thoonthukudi District, Tamil Nadu, THERKU V P PURAM Village, Ottapidaram Taluk, Thoonthukudi 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 on 14.02.2022/ 12.04.2022
2. IR No : F.1589TTN/RL/AEE/TTN/2022 dated 22.06.2022
3. Minutes of TSC Resolution No.201-05 dated 21.07.2022

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

The Managing Director,

SIPCOT INDUSTRIAL PARK, THOOTHUKUDI

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

S.F.No S.F.nos : 81/1, 82/2, 83/1, 70/1, 70/2, 71, 72/2A, 72/2B, 73/1, 73/2, 73/4, 74/1, 74/3, 74/4, 75/1, 75/2, 75/3A, 75/3B, 75/4, 76/1, 76/2, 76/3, 76/4, 76/5, 76/6, 76/7, 77/1, 77/2, 77/3, 77/4, 77/5, 285/1A, 285/1B, 285/1C, 286/2, 286, 287, 288/1, 288/2, 288/4, 289/3, 326/1, 339, 342, 349, 362/2, 372/2, 374/4, 343/1, 343/2, 343/3A, 343/1B, 350/1, 350/2, 351/1, 351/2A, 351/2B, 351/4, 351/5, 351/6, 353/3, 358/1A, 358/1B, 359/1, 359/2, 359/3, 359/4, 360/1, 360/2, 361/1, 364, 371/1, 371/2, 371/3, 373/1, 373/2, 373/3, 373/4, 363/1, 363/2, 363/3, 363/4, 366/1, 366/2, 366/3, 366/4, 372/1, 372/3, 374/2, 374/3, 375, 376/1A, 376/1B, 406/1, 406/2, 406/3, 501/1, 315/4, 316/3, 317/3, 318/1, 280/3, 331/3, 333/4, 358/2, 361/2, 363/5, 374/1, 61/3, 62/5, 63/5, 65/2, 72/1, 73/1, 74/2, 1/2, 2/1, 2/3, 3/1, 3/3, 14/3, 15/2, 16/2, 16/3, 21/7, 30/1, 36/2, 44/4, 48/3, 51/3, 124/1, 12, 13, 22, 23, 24, 26, 35, 59/2, 60/2, 82/2, 65, 56, 74, 86, 91, 47/1, 47/3, 47/4, 47/5, 47/6, 62/1, 62/3A, 62/3B, 62/3C, 62/3D, 62/4, 62/6A, 62/6B, 62/7, 62/8, 63/2, 63/3, 63/4A, 63/4B, 63/4C, 63/4D, 63/6A, 63/6B, 64/1, 64/2, 65/1, 65/3, 65/4, 65/5, 367/1, 307/2, 308/1, 308/2, 309/1, 316/1, 316/2, 316/4, 316/5, 317/1, 317/2, 61/2, 61/4, 318, 311/1A, 311/1B, 311/2A, 311/2B, 311/2C, 312, 313/1, 313/2, 314, 315/1, 315/2, 315/3, 1/5A, 1/1B, 1/3, 2/2, 2/4, 2/5, 3/2A, 3/2B, 6/1, 4/2, 4/3, 6/1, 6/2, 6/3, 6/4, 7, 8/1, 8/2, 9, 10/1, 10/2, 10/3, 10/4, 11/1, 11/2, 11/3, 17/1, 18/1, 19/1, 19/2, 21/1, 21/2, 21/3, 21/4A, 21/4B, 21/4C, 21/4D, 21/5, 21/6, 5, 82/1, 82/2, 83/1, 83/2, 86/1, 88/2, 88/3A, 88/3B, 88/3C, 84/1, 84/2, 85/1, 85/2, 86/1, 86/2, 87, 89, 90/1A, 90/1B, 90/2, 124/1, 124/2, 124/3, 124/4, 124/5, 124/6, 126/1, 126/2, 127/1, 127/2, 127/3, 127/4, 129/2, 128/1, 128/4, 128/5, 14/1, 14/2, 14/3, 14/4, 15/1, 15/2, 15/3, 16/1, 16/2, 16, 25/1, 25/2, 25/3, 25/4, 25/5A, 25/5B, 26, 30/1, 30/2, 37/1A, 27/1B, 27/2, 28/1/1, 31/2, 31/3, 32/1, 32/2A, 32/2B, 32/2C, 32/2D, 32/2E, 33/1, 33/2, 33/3, 33/4, 33/5, 33/6, 34, 36/1, 36/2, 37/1, 37/2, 41/1, 41/2, 56/1A, 56/1B, 56/1C, 56/1D, 56/1E, 56/1F, 76/2, 76/3, 40/1, 40/2, 42/1, 42/2, 43/1, 43/2, 45/3, 44/1, 44/2, 44/3A, 44/3B, 48/1A, 48/1A2, 48/1B, 48/2A, 48/2B, 40/2C, 49, 50/1, 50/3, 51/1, 51/2, 51/4A, 51/4B, 51/5, 51/3, 39/1, 39/3, 52/1, 52/3, 52/4, 52/5, 53/1, 53/2, 53/3, 53/4, 54/1, 54/2, 54/3A, 54/3B, 54/3C, 54/4, 57/1, 57/2, 58/1, 58/2, 59/1, 59/2, 59/3, 60/1

Thiruvannamalaiyapuram Village in Orupadam Taluk & S.F.nos : 26/6, 40/4, 46/3, 47/5, 45/1A, 45/1B, 45/2A, 45/2B, 45/2C, 45/2D, 45/3A, 45/3B, 45/3C, 45/4A, 45/4B, 45/4C, 45/5A1, 45/5A2, 45/5B, 45/5C, 45/5D1, 45/5D2, 45/5D3, 46/1, 46/2, 47/1A, 47/1B, 47/1C, 47/1D, 47/1E, 47/1F, 47/2, 47/3A, 47/3B, 47/3C, 47/3D, 47/4A, 47/4B, 47/4C, 47/4D, 48/1, 48/2, 49/1, 49/2, 50/1, 50/2, 51, 52/1, 52/2, 26/3A, 26/4, 33/3, 34/1A1, 34/1A2, 34/1B2, 34/2A, 34/2B, 34/2C, 34/2D, 34/3, 34/4, 34/4B, 34/5, 36/2, 41/1, 41/2, 42/1, 42/2, 43/1, 43/2, 44/1A, 44/1B1, 44/1B2, 44/2A, 44/2B1, 44/2B2, 44/2B3, 44/3A1, 44/3B1A, 44/3B1B, 44/3B2A, 44/3B2B, 44/3B2C, 44/3B2D, 44/3B2E, 44/3B2F, 44/3B2G, 44/3B2H, 44/3B2I, 44/3B2J, 44/3B2K, 44/3B2L, 44/3B2M, 44/3B2N, 44/3B2O, 44/3B2P, 44/3B2Q, 44/3B2R, 44/3B2S, 44/3B2T, 44/3B2U, 44/3B2V, 44/3B2W, 44/3B2X, 44/3B2Y, 44/3B2Z, 44/3B2AA, 44/3B2AB, 44/3B2AC, 44/3B2AD, 44/3B2AE, 44/3B2AF, 44/3B2AG, 44/3B2AH, 44/3B2AI, 44/3B2AJ, 44/3B2AK, 44/3B2AL, 44/3B2AM, 44/3B2AN, 44/3B2AO, 44/3B2AP, 44/3B2AQ, 44/3B2AR, 44/3B2AS, 44/3B2AT, 44/3B2AU, 44/3B2AV, 44/3B2AW, 44/3B2AX, 44/3B2AY, 44/3B2AZ, 44/3B2BA, 44/3B2BB, 44/3B2BC, 44/3B2BD, 44/3B2BE, 44/3B2BF, 44/3B2BG, 44/3B2BH, 44/3B2BI, 44/3B2BJ, 44/3B2BK, 44/3B2BL, 44/3B2BM, 44/3B2BN, 44/3B2BO, 44/3B2BP, 44/3B2BQ, 44/3B2BR, 44/3B2BS, 44/3B2BT, 44/3B2BU, 44/3B2BV, 44/3B2BW, 44/3B2BX, 44/3B2BY, 44/3B2BZ, 44/3B2CA, 44/3B2CB, 44/3B2CC, 44/3B2CD, 44/3B2CE, 44/3B2CF, 44/3B2CG, 44/3B2CH, 44/3B2CI, 44/3B2CJ, 44/3B2CK, 44/3B2CL, 44/3B2CM, 44/3B2CN, 44/3B2CO, 44/3B2CP, 44/3B2CQ, 44/3B2CR, 44/3B2CS, 44/3B2CT, 44/3B2CU, 44/3B2CV, 44/3B2CW, 44/3B2CX, 44/3B2CY, 44/3B2CZ, 44/3B2DA, 44/3B2DB, 44/3B2DC, 44/3B2DD, 44/3B2DE, 44/3B2DF, 44/3B2DG, 44/3B2DH, 44/3B2DI, 44/3B2DJ, 44/3B2DK, 44/3B2DL, 44/3B2DM, 44/3B2DN, 44/3B2DO, 44/3B2DP, 44/3B2DQ, 44/3B2DR, 44/3B2DS, 44/3B2DT, 44/3B2DU, 44/3B2DV, 44/3B2DW, 44/3B2DX, 44/3B2DY, 44/3B2DZ, 44/3B2EA, 44/3B2EB, 44/3B2EC, 44/3B2ED, 44/3B2EE, 44/3B2EF, 44/3B2EG, 44/3B2EH, 44/3B2EI, 44/3B2EJ, 44/3B2EK, 44/3B2EL, 44/3B2EM, 44/3B2EN, 44/3B2EO, 44/3B2EP, 44/3B2EQ, 44/3B2ER, 44/3B2ES, 44/3B2ET, 44/3B2EU, 44/3B2EV, 44/3B2EW, 44/3B2EX, 44/3B2EY, 44/3B2EZ, 44/3B2FA, 44/3B2FB, 44/3B2FC, 44/3B2FD, 44/3B2FE, 44/3B2FF, 44/3B2FG, 44/3B2FH, 44/3B2FI, 44/3B2FJ, 44/3B2FK, 44/3B2FL, 44/3B2FM, 44/3B2FN, 44/3B2FO, 44/3B2FP, 44/3B2FQ, 44/3B2FR, 44/3B2FS, 44/3B2FT, 44/3B2FU, 44/3B2FV, 44/3B2FW, 44/3B2FX, 44/3B2FY, 44/3B2FZ, 44/3B2GA, 44/3B2GB, 44/3B2GC, 44/3B2GD, 44/3B2GE, 44/3B2GF, 44/3B2GG, 44/3B2GH, 44/3B2GI, 44/3B2GJ, 44/3B2GK, 44/3B2GL, 44/3B2GM, 44/3B2GN, 44/3B2GO, 44/3B2GP, 44/3B2GQ, 44/3B2GR, 44/3B2GS, 44/3B2GT, 44/3B2GU, 44/3B2GV, 44/3B2GW, 44/3B2GX, 44/3B2GY, 44/3B2GZ, 44/3B2HA, 44/3B2HB, 44/3B2HC, 44/3B2HD, 44/3B2HE, 44/3B2HF, 44/3B2HG, 44/3B2HH, 44/3B2HI, 44/3B2HJ, 44/3B2HK, 44/3B2HL, 44/3B2HM, 44/3B2HN, 44/3B2HO, 44/3B2HP, 44/3B2HQ, 44/3B2HR, 44/3B2HS, 44/3B2HT, 44/3B2HU, 44/3B2HV, 44/3B2HW, 44/3B2HX, 44/3B2HY, 44/3B2HZ, 44/3B2IA, 44/3B2IB, 44/3B2IC, 44/3B2ID, 44/3B2IE, 44/3B2IF, 44/3B2IG, 44/3B2IH, 44/3B2II, 44/3B2IJ, 44/3B2IK, 44/3B2IL, 44/3B2IM, 44/3B2IN, 44/3B2IO, 44/3B2IP, 44/3B2IQ, 44/3B2IR, 44/3B2IS, 44/3B2IT, 44/3B2IU, 44/3B2IV, 44/3B2IW, 44/3B2IX, 44/3B2IY, 44/3B2IZ, 44/3B2JA, 44/3B2JB, 44/3B2JC, 44/3B2JD, 44/3B2JE, 44/3B2JF, 44/3B2JG, 44/3B2JH, 44/3B2JI, 44/3B2JJ, 44/3B2JK, 44/3B2JL, 44/3B2JM, 44/3B2JN, 44/3B2JO, 44/3B2JP, 44/3B2JQ, 44/3B2JR, 44/3B2JS, 44/3B2JT, 44/3B2JU, 44/3B2JV, 44/3B2JW, 44/3B2JX, 44/3B2JY, 44/3B2JZ, 44/3B2KA, 44/3B2KB, 44/3B2KC, 44/3B2KD, 44/3B2KE, 44/3B2KF, 44/3B2KG, 44/3B2KH, 44/3B2KI, 44/3B2KJ, 44/3B2KK, 44/3B2KL, 44/3B2KM, 44/3B2KN, 44/3B2KO, 44/3B2KP, 44/3B2KQ, 44/3B2KR, 44/3B2KS, 44/3B2KT, 44/3B2KU, 44/3B2KV, 44/3B2KW, 44/3B2KX, 44/3B2KY, 44/3B2KZ, 44/3B2LA, 44/3B2LB, 44/3B2LC, 44/3B2LD, 44/3B2LE, 44/3B2LF, 44/3B2LG, 44/3B2LH, 44/3B2LI, 44/3B2LJ, 44/3B2LK, 44/3B2LL, 44/3B2LM, 44/3B2LN, 44/3B2LO, 44/3B2LP, 44/3B2LQ, 44/3B2LR, 44/3B2LS, 44/3B2LT, 44/3B2LU, 44/3B2LV, 44/3B2LW, 44/3B2LX, 44/3B2LY, 44/3B2LZ, 44/3B2MA, 44/3B2MB, 44/3B2MC, 44/3B2MD, 44/3B2ME, 44/3B2MF, 44/3B2MG, 44/3B2MH, 44/3B2MI, 44/3B2MJ, 44/3B2MK, 44/3B2ML, 44/3B2MM, 44/3B2MN, 44/3B2MO, 44/3B2MP, 44/3B2MQ, 44/3B2MR, 44/3B2MS, 44/3B2MT, 44/3B2MU, 44/3B2MV, 44/3B2MW, 44/3B2MX, 44/3B2MY, 44/3B2MZ, 44/3B2NA, 44/3B2NB, 44/3B2NC, 44/3B2ND, 44/3B2NE, 44/3B2NF, 44/3B2NG, 44/3B2NH, 44/3B2NI, 44/3B2NJ, 44/3B2NK, 44/3B2NL, 44/3B2NM, 44/3B2NN, 44/3B2NO, 44/3B2NP, 44/3B2NQ, 44/3B2NR, 44/3B2NS, 44/3B2NT, 44/3B2NU, 44/3B2NV, 44/3B2NW, 44/3B2NX, 44/3B2NY, 44/3B2NZ, 44/3B2OA, 44/3B2OB, 44/3B2OC, 44/3B2OD, 44/3B2OE, 44/3B2OF, 44/3B2OG, 44/3B2OH, 44/3B2OI, 44/3B2OJ, 44/3B2OK, 44/3B2OL, 44/3B2OM, 44/3B2ON, 44/3B2OO, 44/3B2OP, 44/3B2OQ, 44/3B2OR, 44/3B2OS, 44/3B2OT, 44/3B2OU, 44/3B2OV, 44/3B2OW, 44/3B2OX, 44/3B2OY, 44/3B2OZ, 44/3B2PA, 44/3B2PB, 44/3B2PC, 44/3B2PD, 44/3B2PE, 44/3B2PF, 44/3B2PG, 44/3B2PH, 44/3B2PI, 44/3B2PJ, 44/3B2PK, 44/3B2PL, 44/3B2PM, 44/3B2PN, 44/3B2PO, 44/3B2PP, 44/3B2PQ, 44/3B2PR, 44/3B2PS, 44/3B2PT, 44/3B2PU, 44/3B2PV, 44/3B2PW, 44/3B2PX, 44/3B2PY, 44/3B2PZ, 44/3B2QA, 44/3B2QB, 44/3B2QC, 44/3B2QD, 44/3B2QE, 44/3B2QF, 44/3B2QG, 44/3B2QH, 44/3B2QI, 44/3B2QJ, 44/3B2QK, 44/3B2QL, 44/3B2QM, 44/3B2QN, 44/3B2QO, 44/3B2QP, 44/3B2QQ, 44/3B2QR, 44/3B2QS, 44/3B2QT, 44/3B2QU, 44/3B2QV, 44/3B2QW, 44/3B2QX, 44/3B2QY, 44/3B2QZ, 44/3B2RA, 44/3B2RB, 44/3B2RC, 44/3B2RD, 44/3B2RE, 44/3B2RF, 44/3B2RG, 44/3B2RH, 44/3B2RI, 44/3B2RJ, 44/3B2RK, 44/3B2RL, 44/3B2RM, 44/3B2RN, 44/3B2RO, 44/3B2RP, 44/3B2RQ, 44/3B2RR, 44/3B2RS, 44/3B2RT, 44/3B2RU, 44/3B2RV, 44/3B2RW, 44/3B2RX, 44/3B2RY, 44/3B2RZ, 44/3B2SA, 44/3B2SB, 44/3B2SC, 44/3B2SD, 44/3B2SE, 44/3B2SF, 44/3B2SG, 44/3B2SH, 44/3B2SI, 44/3B2SJ, 44/3B2SK, 44/3B2SL, 44/3B2SM, 44/3B2SN, 44/3B2SO, 44/3B2SP, 44/3B2SQ, 44/3B2SR, 44/3B2SS, 44/3B2ST, 44/3B2SU, 44/3B2SV, 44/3B2SW, 44/3B2SX, 44/3B2SY, 44/3B2SZ, 44/3B2TA, 44/3B2TB, 44/3B2TC, 44/3B2TD, 44/3B2TE, 44/3B2TF, 44/3B2TG, 44/3B2TH, 44/3B2TI, 44/3B2TJ, 44/3B2TK, 44/3B2TL, 44/3B2TM, 44/3B2TN, 44/3B2TO, 44/3B2TP, 44/3B2TQ, 44/3B2TR, 44/3B2TS, 44/3B2TT, 44/3B2TU, 44/3B2TV, 44/3B2TW, 44/3B2TX, 44/3B2TY, 44/3B2TZ, 44/3B2UA, 44/3B2UB, 44/3B2UC, 44/3B2UD, 44/3B2UE, 44/3B2UF, 44/3B2UG, 44/3B2UH, 44/3B2UI, 44/3B2UJ, 44/3B2UK, 44/3B2UL, 44/3B2UM, 44/3B2UN, 44/3B2UO, 44/3B2UP, 44/3B2UQ, 44/3B2UR, 44/3B2US, 44/3B2UT, 44/3B2UU, 44/3B2UV, 44/3B2UW, 44/3B2UX, 44/3B2UY, 44/3B2UZ, 44/3B2VA, 44/3B2VB, 44/3B2VC, 44/3B2VD, 44/3B2VE, 44/3B2VF, 44/3B2VG, 44/3B2VH, 44/3B2VI, 44/3B2VJ, 44/3B2VK, 44/3B2VL, 44/3B2VM, 44/3B2VN, 44/3B2VO, 44/3B2VP, 44/3B2VQ, 44/3B2VR, 44/3B2VS, 44/3B2VT, 44/3B2VU, 44/3B2VV, 44/3B2VW, 44/3B2VX, 44/3B2VY, 44/3B2VZ, 44/3B2WA, 44/3B2WB, 44/3B2WC, 44/3B2WD, 44/3B2WE, 44/3B2WF, 44/3B2WG, 44/3B2WH, 44/3B2WI, 44/3B2WJ, 44/3B2WK, 44/3B2WL, 44/3B2WM, 44/3B2WN, 44/3B2WO, 44/3B2WP, 44/3B2WQ, 44/3B2WR, 44/3B2WS, 44/3B2WT, 44/3B2WU, 44/3B2WV, 44/3B2WW, 44/3B2WX, 44/3B2WY, 44/3B2WZ, 44/3B2XA, 44/3B2XB, 44/3B2XC, 44/3B2XD, 44/3B2XE, 44/3B2XF, 44/3B2XG, 44/3B2XH, 44/3B2XI, 44/3B2XJ, 44/3B2XK, 44/3B2XL, 44/3B2XM, 44/3B2XN, 44/3B2XO, 44/3B2XP, 44/3B2XQ, 44/3B2XR, 44/3B2XS, 44/3B2XT, 44/3B2XU, 44/3B2XV, 44/3B2XW, 44/3B2XX, 44/3B2XY, 44/3B2XZ, 44/3B2YA, 44/3B2YB, 44/3B2YC, 44/3B2YD, 44/3B2YE, 44/3B2YF, 44/3B2YG, 44/3B2YH, 44/3B2YI, 44/3B2YJ, 44/3B2YK, 44/3B2YL, 44/3B2YM, 44/3B2YN, 44/3B2YO, 44/3B2YP, 44/3B2YQ, 44/3B2YR, 44/3B2YS, 44/3B2YT, 44/3B2YU, 44/3B2YV, 44/3B2YW, 44/3B2YX, 44/3B2YY, 44/3B2YZ, 44/3B2ZA, 44/3B2ZB, 44/3B2ZC, 44/3B2ZD, 44/3B2ZE, 44/3B2ZF, 44/3B2ZG, 44/3B2ZH, 44/3B2ZI, 44/3B2ZJ, 44/3B2ZK, 44/3B2ZL, 44/3B2ZM, 44/3B2ZN, 44/3B2ZO, 44/3B2ZP, 44/3B2ZQ, 44/3B2ZR, 44/3B2ZS, 44/3B2ZT, 44/3B2ZU, 44/3B2ZV, 44/3B2ZW, 44/3B2ZX, 44/3B2ZY, 44/3B2ZZ

(THIRUK) V P PURAM Village,
Orupadam Taluk,
Thoothukkudi District.

This Consent to establish is valid upto **February 01, 2029** or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

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

To
The Managing Director,
M/s SIPCOT INDUSTRIAL PARK, THOOTHUKUDU,
State Industries Promotion Corporation of Tamil Nadu Limited, 19-A, Rukman Lakshmi Pathy Road, Post Box No. 7223, Egmore,
Chennai,
Pin- 600008

Ccys to:

1. The Commissioner, OTTAPIDARAM Panchayat Union, Orupadam Taluk, Thoothukkudi District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THOOTHUKUDU.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, THIRUNELVELI.
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 site (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
Product Details			
1.	SIPCOT Industrial Park at Thoothukudi is an infrastructure development project in a total area of 466.503 Hectares (1152.262 Acres). It involves development and maintenance of infrastructure such as roads, storm water drains, water supply, power supply through TANGEDCO, street lights, green belt development and other such amenities to accommodate following type of industries: 1. Engineering (Auto components/Furniture Manufacturing 2. Packaging industries 3. Agro & Food 4. Eco friendly building materials (Fly ash bricks/ blocks manufacturing etc.) 5. Electronics/Electrical and Allied industries 6. Any other industries Not under the preview of EIA Notification 2006 and its amendments.	466.503	Hectares
By-Product Details			
1.	Nil	0	0

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

a Sewage Treatment Plant:			
Treatment status: Septic Tank and SP/DT			
Sl. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Septic Tank	1	4.2 m x 2.3 m x 1.9m
2.	Soak Pit	1	1.0 m dia x 2.5 m Ht.
b Effluent Treatment Plant:			
Treatment status: No trade effluent and hence does not arise			
Sl. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			
2.			
3.			

3. 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
Effluent Type : Sewage			
1.	Sewage from Administrative Building	0.85	Septic Tank followed by Soak Pit
Effluent Type : Trade Effluent			

4. Special Additional Conditions:



TAMILNADU POLLUTION CONTROL BOARD

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

5. Additional Conditions:





TAMILNADU POLLUTION CONTROL BOARD

1. The SIPCOT shall comply with the conditions stipulated in the Environmental Clearance obtained from SEIAA, TN vide Letter No. SEIAATN/F.7939/EC/8(b)/796/2022 dated 02.02.2022.
2. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
3. The SIPCOT shall start its establishment activities only after getting the necessary project building approvals from the competent authorities.
4. In accordance with Item No.9 of the EIA Notification, 2006, the SIPCOT shall possess valid EC while applying for CTO of the Board.
5. In accordance with Item No.11 of the EIA Notification, 2006, SIPCOT shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
6. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
7. The SIPCOT shall obtain and furnish the approved planning permission from the Competent Authority while applying for CTO of the Board.
8. The SIPCOT shall obtain and furnish the land use classification certificate from Competent Authority while applying for CTO of the Board.
9. The stability of the entire building does not falls under the purview of the TNPCB Board.
10. The SIPCOT shall allow only the industries that do not attract the provisions of EIA notification 2006 as amended in the industrial park as per the EC obtained.
11. The SIPCOT shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
12. The SIPCOT shall provide Septic Tank followed by Soak Pit to treat the Sewage generated from SIPCOT Administrative Building, so as to achieve the standards prescribed by the Board.
13. The SIPCOT shall obtain and furnish necessary permission / NOC for water supply from the TWAD Board / competent Authority while applying for CTO of the Board.
14. The SIPCOT shall submit baseline data for ground water to assess the quality of ground water around 1 KM radius outside the boundary of the project and also from available open wells inside the premises within a month's time.
15. The SIPCOT shall monitor the ground water in and around the unit premises periodically, so as to assess its quality and submit the ROA of the same to the Board.
16. The SIPCOT shall provide a common solid waste treatment and disposal facility for the disposal of solid wastes (bio degradable wastes) to be generated from the industries.
17. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc., shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules, 2016.
18. The SIPCOT shall allot 5% of the total plot area for Solid Waste Management as per the Solid waste Management Rules, 2016 as amended.
19. The SIPCOT shall provide Rain Water Harvesting pits so as to recharge the ground water table.
20. The SIPCOT shall ensure that the plastic wastes are segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
21. The SIPCOT shall properly develop the common amenities like road, Storm water drain, street lights, water supply pipelines and avenue plantation in OSR area.
22. The SIPCOT shall earmark the buffer zone all around the periphery of the layout.
23. The SIPCOT shall provide solar powered lights for illumination of common areas, lighting for gardens and street lighting.
24. Compensation is to be paid for land acquisition as fixed by the District Collector and District Magistrate as civil liability, if applicable.
25. The SIPCOT shall ensure that all the allotted industries implement ZLD system for treating the trade effluent and shall ensure that no treated/ untreated sewage or trade effluent gain access outside the unit premises on land water sources under any circumstance as these proposed park falls under the catchment area of nearby er's.
26. The SIPCOT shall ensure that the allotted units not dig any well or bore well inside their premises for drawing of ground water.
27. The SIPCOT shall comply with the E- waste Management Rules, 2016, E-waste as listed in Schedule - I if generated, shall be channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of e- waste generation in Form - 2 and make such records available for scrutiny by the TNPCB.
28. The SIPCOT shall ensure that the industries housed in the Industrial Estate treat and dispose the sewage, trade effluent, solid waste, hazardous waste & E-waste disposal in compliance with the respective Acts.
29. The unit shall remit consent fee in case of revision by the Government.



TAMILNADU POLLUTION CONTROL BOARD

RAGUPATHI
SANGANAN

Digitally signed by RAGUPATHI
SANGANAN
DN: cn=RAGUPATHI SANGANAN, o=Tamil Nadu Pollution Control Board, email=rsanganan@tnpcb.org

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai





TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS

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

RAGUPATHI
SANGANAN

Regional Engineer (Pollution Control)
Chennai
Date: 20/07/2018 10:17:13 AM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ENVIRONMENTAL MANAGEMENT CELL**1. INTRODUCTION:**

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

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

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

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

Table – 1: Roles and responsibilities of EMC

S.No.	Designation	Responsibilities
1	Managing Director	➤ Responsible for overall environmental management. ➤ Regularly conduct meeting with EMC and take feedback regarding all the activities performed under Environmental Management and give directions to succeeding component. ➤ Approval of funds for carrying out environmental management activities.
2	GM – Projects	➤ Keep aware about all the activities performed under EMC in the industrial parks. ➤ Issuing direction to Project officers for implementing Greenbelt development, Storm water management, rain water harvesting, etc. ➤ To deal with legal entity pertaining to environmental issues.
3	Manager	➤ To prepare and allocate budget for Environment Management Plan. ➤ Ensuring compliance to the conditions prescribed by statutory authority. ➤ 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.
4	Environmental Consultants (Two)	➤ Obtaining Statutory Approvals from MoEF&CC / SEIAA / TNPCB, etc. ➤ Addressing the various queries received from statutory authorities on environmental front. ➤ Submitting Environmental compliance report and coordinating with project officers for Environmental monitoring, audit, etc. ➤ Compliance with the environmental laws and implications which dynamically changes from time to time due to the emerging challenges.



Green Belt Coordinates

Sta.	Latitude	Longitude	Sta.	Latitude	Longitude	Sta.	Latitude	Longitude	Sta.	Latitude	Longitude
1	45° 14.247' N	76° 44.750' E	91	45° 16.760' N	76° 33.240' E	171	45° 26.547' N	76° 33.453' E	251	45° 44.827' N	76° 31.173' E
2	45° 14.740' N	76° 39.750' E	92	45° 16.860' N	76° 33.840' E	172	45° 26.640' N	76° 33.840' E	252	45° 44.920' N	76° 31.170' E
3	45° 15.150' N	76° 34.750' E	93	45° 16.960' N	76° 34.240' E	173	45° 26.730' N	76° 34.240' E	253	45° 45.010' N	76° 31.160' E
4	45° 15.640' N	76° 30.000' E	94	45° 17.060' N	76° 34.640' E	174	45° 26.820' N	76° 34.640' E	254	45° 45.100' N	76° 31.150' E
5	45° 16.130' N	76° 25.000' E	95	45° 17.160' N	76° 35.040' E	175	45° 26.910' N	76° 35.040' E	255	45° 45.190' N	76° 31.140' E
6	45° 16.620' N	76° 20.000' E	96	45° 17.260' N	76° 35.440' E	176	45° 27.000' N	76° 35.440' E	256	45° 45.280' N	76° 31.130' E
7	45° 17.110' N	76° 15.000' E	97	45° 17.360' N	76° 35.840' E	177	45° 27.090' N	76° 35.840' E	257	45° 45.370' N	76° 31.120' E
8	45° 17.600' N	76° 10.000' E	98	45° 17.460' N	76° 36.240' E	178	45° 27.180' N	76° 36.240' E	258	45° 45.460' N	76° 31.110' E
9	45° 18.090' N	76° 05.000' E	99	45° 17.560' N	76° 36.640' E	179	45° 27.270' N	76° 36.640' E	259	45° 45.550' N	76° 31.100' E
10	45° 18.580' N	76° 00.000' E	100	45° 17.660' N	76° 37.040' E	180	45° 27.360' N	76° 37.040' E	260	45° 45.640' N	76° 31.090' E
11	45° 19.070' N	76° 00.000' E	101	45° 17.760' N	76° 37.440' E	181	45° 27.450' N	76° 37.440' E	261	45° 45.730' N	76° 31.080' E
12	45° 19.560' N	76° 00.000' E	102	45° 17.860' N	76° 37.840' E	182	45° 27.540' N	76° 37.840' E	262	45° 45.820' N	76° 31.070' E
13	45° 20.050' N	76° 00.000' E	103	45° 17.960' N	76° 38.240' E	183	45° 27.630' N	76° 38.240' E	263	45° 45.910' N	76° 31.060' E
14	45° 20.540' N	76° 00.000' E	104	45° 18.060' N	76° 38.640' E	184	45° 27.720' N	76° 38.640' E	264	45° 46.000' N	76° 31.050' E
15	45° 21.030' N	76° 00.000' E	105	45° 18.160' N	76° 39.040' E	185	45° 27.810' N	76° 39.040' E	265	45° 46.090' N	76° 31.040' E
16	45° 21.520' N	76° 00.000' E	106	45° 18.260' N	76° 39.440' E	186	45° 27.900' N	76° 39.440' E	266	45° 46.180' N	76° 31.030' E
17	45° 22.010' N	76° 00.000' E	107	45° 18.360' N	76° 39.840' E	187	45° 27.990' N	76° 39.840' E	267	45° 46.270' N	76° 31.020' E
18	45° 22.500' N	76° 00.000' E	108	45° 18.460' N	76° 40.240' E	188	45° 28.080' N	76° 40.240' E	268	45° 46.360' N	76° 31.010' E
19	45° 22.990' N	76° 00.000' E	109	45° 18.560' N	76° 40.640' E	189	45° 28.170' N	76° 40.640' E	269	45° 46.450' N	76° 31.000' E
20	45° 23.480' N	76° 00.000' E	110	45° 18.660' N	76° 41.040' E	190	45° 28.260' N	76° 41.040' E	270	45° 46.540' N	76° 30.990' E
21	45° 23.970' N	76° 00.000' E	111	45° 18.760' N	76° 41.440' E	191	45° 28.350' N	76° 41.440' E	271	45° 46.630' N	76° 30.980' E
22	45° 24.460' N	76° 00.000' E	112	45° 18.860' N	76° 41.840' E	192	45° 28.440' N	76° 41.840' E	272	45° 46.720' N	76° 30.970' E
23	45° 24.950' N	76° 00.000' E	113	45° 18.960' N	76° 42.240' E	193	45° 28.530' N	76° 42.240' E	273	45° 46.810' N	76° 30.960' E
24	45° 25.440' N	76° 00.000' E	114	45° 19.060' N	76° 42.640' E	194	45° 28.620' N	76° 42.640' E	274	45° 46.900' N	76° 30.950' E
25	45° 25.930' N	76° 00.000' E	115	45° 19.160' N	76° 43.040' E	195	45° 28.710' N	76° 43.040' E	275	45° 46.990' N	76° 30.940' E
26	45° 26.420' N	76° 00.000' E	116	45° 19.260' N	76° 43.440' E	196	45° 28.800' N	76° 43.440' E	276	45° 47.080' N	76° 30.930' E
27	45° 26.910' N	76° 00.000' E	117	45° 19.360' N	76° 43.840' E	197	45° 28.890' N	76° 43.840' E	277	45° 47.170' N	76° 30.920' E
28	45° 27.400' N	76° 00.000' E	118	45° 19.460' N	76° 44.240' E	198	45° 28.980' N	76° 44.240' E	278	45° 47.260' N	76° 30.910' E
29	45° 27.890' N	76° 00.000' E	119	45° 19.560' N	76° 44.640' E	199	45° 29.070' N	76° 44.640' E	279	45° 47.350' N	76° 30.900' E
30	45° 28.380' N	76° 00.000' E	120	45° 19.660' N	76° 45.040' E	200	45° 29.160' N	76° 45.040' E	280	45° 47.440' N	76° 30.890' E
31	45° 28.870' N	76° 00.000' E	121	45° 19.760' N	76° 45.440' E	201	45° 29.250' N	76° 45.440' E	281	45° 47.530' N	76° 30.880' E
32	45° 29.360' N	76° 00.000' E	122	45° 19.860' N	76° 45.840' E	202	45° 29.340' N	76° 45.840' E	282	45° 47.620' N	76° 30.870' E
33	45° 29.850' N	76° 00.000' E	123	45° 19.960' N	76° 46.240' E	203	45° 29.430' N	76° 46.240' E	283	45° 47.710' N	76° 30.860' E
34	45° 30.340' N	76° 00.000' E	124	45° 20.060' N	76° 46.640' E	204	45° 29.520' N	76° 46.640' E	284	45° 47.800' N	76° 30.850' E
35	45° 30.830' N	76° 00.000' E	125	45° 20.160' N	76° 47.040' E	205	45° 29.610' N	76° 47.040' E	285	45° 47.890' N	76° 30.840' E
36	45° 31.320' N	76° 00.000' E	126	45° 20.260' N	76° 47.440' E	206	45° 29.700' N	76° 47.440' E	286	45° 47.980' N	76° 30.830' E
37	45° 31.810' N	76° 00.000' E	127	45° 20.360' N	76° 47.840' E	207	45° 29.790' N	76° 47.840' E	287	45° 48.070' N	76° 30.820' E
38	45° 32.300' N	76° 00.000' E	128	45° 20.460' N	76° 48.240' E	208	45° 29.880' N	76° 48.240' E	288	45° 48.160' N	76° 30.810' E
39	45° 32.790' N	76° 00.000' E	129	45° 20.560' N	76° 48.640' E	209	45° 29.970' N	76° 48.640' E	289	45° 48.250' N	76° 30.800' E
40	45° 33.280' N	76° 00.000' E	130	45° 20.660' N	76° 49.040' E	210	45° 30.060' N	76° 49.040' E	290	45° 48.340' N	76° 30.790' E
41	45° 33.770' N	76° 00.000' E	131	45° 20.760' N	76° 49.440' E	211	45° 30.150' N	76° 49.440' E	291	45° 48.430' N	76° 30.780' E
42	45° 34.260' N	76° 00.000' E	132	45° 20.860' N	76° 49.840' E	212	45° 30.240' N	76° 49.840' E	292	45° 48.520' N	76° 30.770' E
43	45° 34.750' N	76° 00.000' E	133	45° 20.960' N	76° 50.240' E	213	45° 30.330' N	76° 50.240' E	293	45° 48.610' N	76° 30.760' E
44	45° 35.240' N	76° 00.000' E	134	45° 21.060' N	76° 50.640' E	214	45° 30.420' N	76° 50.640' E	294	45° 48.700' N	76° 30.750' E
45	45° 35.730' N	76° 00.000' E	135	45° 21.160' N	76° 51.040' E	215	45° 30.510' N	76° 51.040' E	295	45° 48.790' N	76° 30.740' E
46	45° 36.220' N	76° 00.000' E	136	45° 21.260' N	76° 51.440' E	216	45° 30.600' N	76° 51.440' E	296	45° 48.880' N	76° 30.730' E
47	45° 36.710' N	76° 00.000' E	137	45° 21.360' N	76° 51.840' E	217	45° 30.690' N	76° 51.840' E	297	45° 48.970' N	76° 30.720' E
48	45° 37.200' N	76° 00.000' E	138	45° 21.460' N	76° 52.240' E	218	45° 30.780' N	76° 52.240' E	298	45° 49.060' N	76° 30.710' E
49	45° 37.690' N	76° 00.000' E	139	45° 21.560' N	76° 52.640' E	219	45° 30.870' N	76° 52.640' E	299	45° 49.150' N	76° 30.700' E
50	45° 38.180' N	76° 00.000' E	140	45° 21.660' N	76° 53.040' E	220	45° 30.960' N	76° 53.040' E	300	45° 49.240' N	76° 30.690' E
51	45° 38.670' N	76° 00.000' E	141	45° 21.760' N	76° 53.440' E	221	45° 31.050' N	76° 53.440' E	301	45° 49.330' N	76° 30.680' E
52	45° 39.160' N	76° 00.000' E	142	45° 21.860' N	76° 53.840' E	222	45° 31.140' N	76° 53.840' E	302	45° 49.420' N	76° 30.670' E
53	45° 39.650' N	76° 00.000' E	143	45° 21.960' N	76° 54.240' E	223	45° 31.230' N	76° 54.240' E	303	45° 49.510' N	76° 30.660' E
54	45° 40.140' N	76° 00.000' E	144	45° 22.060' N	76° 54.640' E	224	45° 31.320' N	76° 54.640' E	304	45° 49.600' N	76° 30.650' E
55	45° 40.630' N	76° 00.000' E	145	45° 22.160' N	76° 55.040' E	225	45° 31.410' N	76° 55.040' E	305	45° 49.690' N	76° 30.640' E
56	45° 41.120' N	76° 00.000' E	146	45° 22.260' N	76° 55.440' E	226	45° 31.500' N	76° 55.440' E	306	45° 49.780' N	76° 30.630' E
57	45° 41.610' N	76° 00.000' E	147	45° 22.360' N	76° 55.840' E	227	45° 31.590' N	76° 55.840' E	307	45° 49.870' N	76° 30.620' E
58	45° 42.100' N	76° 00.000' E	148	45° 22.460' N	76° 56.240' E	228	45° 31.680' N	76° 56.240' E	308	45° 49.960' N	76° 30.610' E
59	45° 42.590' N	76° 00.000' E	149	45° 22.560' N	76° 56.640' E	229	45° 31.770' N	76° 56.640' E	309	45° 50.050' N	76° 30.600' E
60	45° 43.080' N	76° 00.000' E	150	45° 22.660' N	76° 57.040' E	230	45° 31.860' N	76° 57.040' E	310	45° 50.140' N	76° 30.590' E
61	45° 43.570' N	76° 00.000' E	151	45° 22.760' N	76° 57.440' E	231	45° 31.950' N	76° 57.440' E	311	45° 50.230' N	76° 30.580' E
62	45° 44.060' N	76° 00.000' E	152	45° 22.860' N	76° 57.840' E	232	45° 32.040' N	76° 57.840' E	312	45° 50.320' N	76° 30.570' E
63	45° 44.550' N	76° 00.000' E	153	45° 22.960' N	76° 58.240' E	233	45° 32.130' N	76° 58.240' E	313	45° 50.410' N	76° 30.560' E
64	45° 45.040' N	76° 00.000' E	154	45° 23.060' N	76° 58.640' E	234	45° 32.220' N	76° 58.640' E	314	45° 50.500' N	76° 30.550' E
65	45° 45.530' N	76° 00.000' E	155	45° 23.160' N	76° 59.040' E	235	45° 32.310' N	76° 59.040' E	315	45° 50.590' N	76° 30.540' E
66	45° 46.020' N	76° 00.000' E	156	45° 23.260' N	76° 59.440' E	236	45° 32.400' N	76° 59.440' E	316	45° 50.680' N	76° 30.530' E
67	45° 46.510' N	76° 00.000' E	157	45° 23.360' N	76° 59.840' E	237	45° 32.490' N	76° 59.840' E	317	45° 50.770' N	76° 30.520' E
68	45° 47.000' N	76° 00.000' E	158	45° 23.460' N	76° 60.240' E	238	45° 32.580' N	76° 60.240' E	318	45° 50.860' N	76° 30.510' E
69	45° 47.490' N	76° 00.000' E	159	45° 23.560' N	76° 60.640' E	239	45° 32.670' N	76° 60.640' E	319	45° 50.950' N	76° 30.500' E
70	45° 47.980' N	76° 00.000' E	160	45° 23.660' N	76° 61.040' E	240	45° 32.760' N	76° 61.040' E	320	45° 51.040' N	76° 30.490' E
71	45° 48.470' N	76° 00.000' E	161	45° 23.760' N	76° 61.440' E	241	45° 32.850' N	76° 61.440' E	321	45° 51.130' N	76° 30.480' E
72	45° 48.960' N	76° 00.000' E	162								

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உள்ளாட்சிகளிலும் நம்ம ஆட்சி தொடர

உதயகுரியன், மதச்சார்பற்ற கூட்டணி கட்சியின்
சின்னங்களுக்கும் வாக்களிக்க வேண்டும்

முதுவன் ஸ்ரீ.க.ஸ்டாலின் வீழியோ வெளியீடு

சென்னை, பிப். 17: முதலமைச்சர் மு. க. ஸ்டாலின் தலைமையில் சென்னை மீட்டிங்.

தேர்ந்தெடுத்த பிள்ளைகளை
தேர்ந்தெடுத்த பிள்ளைகளை
தேர்ந்தெடுத்த பிள்ளைகளை

தமிழ்நாடு தான் என்பதை
இத்தியாவிற்கே காட்டி
யோம் பட்டியலின், பழங்
குடி மக்களின் கல்விக்
புள்ளெழுந்ததற்கும் சிறப்பு
இடம் கவனம் கொண்டு

வந்தோம். இல்லம் தேடி
கவலி. இல்லம் தேடி மருத்
துவம் என்று மக்களுக்கான
நீட்டிக்கலான நல முயற்சி
படுத்தி அரசாங்கத்தோட
அனுபவமுடைய ஒரு பணியை

சக தீயிற்றத்தில் ஆனா வழங்கிய பிறகும்

கேட்டுப் போடுவது

இ ஏற்கக்கூடியது அல்ல

வாரும். உச்ச தீமன்றத்தின் உரிய
ஆணை வழங்கிய பிறகுமூன்றாம்
நாள் தீர்மானம் போராடுவது
எந்த வகையிலும் ஏற்கக் கூடியது
அல்ல. இதை வரையறுக்க

மாற்றத்தைக் கொண்டு வந்திருக்கிறோம்.

கருத்து: இந்தக்
 கருத்து எதிரான க. சி.
 கட்டுத்துறை அமைச்சர்
 பெரிய சமூக அதிகாரிகள்
 அதிகாரம் எதிர்த்துத் தான்
 நமது சட்டமன்றத்தில், தி.
 வேண்டாம் என்று சட்ட
 இச்சுத்து செய்கிறார்.

அந்த சட்ட முன்வரைவு
எ ர வ
ஆதரவு
அனுப்பி
வந்தால்,
ஆதரவு
அளவு

மக்கள் திரும்பி அனுப்பி
விடார். மக்களால் தேர்ந்தெடுக்கப்பட்ட ஒரு அரசாங்கம் கொண்டு வரும் சட்டத்தை தடுக்க முனைப்பது கனகராசு

நாகத் தான் இருப்போம் என்பதை இந்த உள்ளாட்சித் தேர்தலின் முடிவு அவர்களுக்கு காட்டப்படும். மாநில உரிமைகளும், தமிழ்நாட்டின் வளர்ச்சிகளும்

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தமிழ்நாடு தொழில் நுட்பவளத் துறைமுகம்

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佛山南海西樵山 西樵山风景名胜区

[illegible]

தமிழ்சாவுகாண்கள் குறுகியகாலம் காலத்திலேயே மறைந்து விட்டன. இன்னமும்பெரியும், மாதிரி வன கட்டுப்பாடு காரியம் மற்றும் மாதிரி வனத்தையும் பார்க்க விரும்பிட்டு ஆணையாளிகள் இன்னமும்பெரியும் பெரும்பாலானவர்கள் மறைந்து தமிழ்சாவுகாண்களில் புகுவினா விடல், தனியும் ஆய்வுகாட்டுகளை ஆய்வு விடல் ஆகியவைகளைப்பற்றி குறிப்பிட்டுகொள்ளும்.

Geistig ist die ATZ-Kommunikation über den

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சென்னை: கருத்துரை

19-து. முத்துமணி எம்.அம்பி.நி. சாலை,
சாத்தூர், மதுரை-625 005.



TAMILNADU SMALL INDUSTRIES DEVELOPMENT CORPORATION LIMITED

Send Office: TANGKEDO Concrete Office, Tugu Pk. Jember, Jawa

Guangzhou Chemicals - 600 032 Phone: (755) 3461, 2550; Fax: (755) 3461-2550

E-mail: scott@scottmcclellan.com; Website: www.scottmcclellan.com

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THE NEW
**INDIAN
EXPRESS**

TAMIL NADU

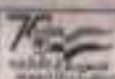
THURSDAY 17.02.2022

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TIRUNELVELI



STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SPCOT) INDUSTRIAL PARK AT THOOTHUKUDI



ENVIRONMENTAL CLEARANCE

Environmental Clearance has been obtained for the proposed establishment of SPCOT Industrial Park at Thekkumangudiapuram Village of Obapuram Taluk and Meluruttan Village of Thoothukudi Taluk, Thoothukudi District, Tamil Nadu from State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide Letter No.: SEIAA-TNF.7939/EC/8/3/796/2022 dated 02.02.2022.

The Environmental Clearance (EC) order can be downloaded from SPCOT website www.spcot.in.gov.in. The clearance order is available with the State Pollution Control Board and also at website of SEIAA, TN. Further a copy of the EC shall be obtained from the Head Office/Project Office of SPCOT.

DIPR/073/Display/2022

MANAGING DIRECTOR
SPCOT, 15A, RAJAMANI LAKSHMIPATHY
ROAD, EGMORE, CHENNAI - 600 006.



GOVERNMENT OF TAMIL NADU

HIGHWAYS DEPARTMENT

CONSTRUCTION & MAINTENANCE, SALEM CIRCLE
TENDER NOTICE

T.N. No. 23 / 2021-22 / HDO, Dated : 15.02.2022

For and on behalf of the Governor of Tamil Nadu,

NOTICE INVITING

e-Tender Notice No.: KR-CO-INPR
General Manager Projects, Konkan Railway
Two Packet Bid System through e-Tendering
for the following work. Name of Work: Erection
Vehicle, Site Facilities & other Allied Works for
+ 13.136 long clearance of 4.7 km of KRV at
B.Co.Railway. Estimated Cost: ₹ 125.04.3
21/02/2022. Closing Date/Time: 07/03/2022
months. Manual Offers shall not be accepted.
details/ participation & Completion Address.



GOVERNMENT OF KARNATAKA
LAKSHADWEEP
(DEPARTMENT OF
KAVARA)

F.NO.42-18/2019-DHO (DP)

NOTICE INVITING

Department of Health Services U.T.
Kavara invites e-tender from the
Loading and Unloading of drugs
packages etc from Medical Store, Kavara.
Following work as detailed below.

Name of Work:

Projects-III/Thoothukudi/EIA/2022/01

Date: 13.05.2022

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

/RPAD/

Sir,

Sub: SIPCOT - Development of Industrial Park at
 Therkkuveerapandiyapuram Village in Ottapidaram Taluk and
 Meelavittan Village in Thoothukudi Taluk, Thoothukudi District,
 Tamil Nadu - Submission of copy of the Press Release on issue of
 Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7939/EC/8(b)/796/2022 dated:
 02.02.2022.

With reference to the above, we have obtained Environmental Clearance
 (EC) from SEIAA, TN. As per EC condition, the advertisement regarding issue of
 Environment Clearance for Development of Industrial Park at
 Therkkuveerapandiyapuram Village of Ottapidaram Taluk and Meelavittan Village
 of Thoothukudi Taluk in Thoothukudi District over an extent of 466.503 Hectares
 has been released in 'The New Indian Express' Tirunelveli edition dated
 17.02.2022 in English language and 'Dinakaran' Nellore edition dated 17.02.2022
 in Tamil Language.

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



Yours faithfully,

Sd/--

GENERAL MANAGER (P-III)

/Forwarded by Order/


 ASSISTANT GENERAL MANAGER (P-III)

Encl.: As above

Sir,
 EC completed
 o/c
 [Signature]

Projects-III/Thoothukudi/EIA/2022/02

Date: 13.05.2022

The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,

/RPAD/

Regional Office (SEZ), 1st and 2nd Floor,
Handloom Export Promotion Council, 34, Cathedral Garden Road,
Nungambakkam, Chennai - 600 034.

Sir,

Sub: SIPCOT - Development of Industrial Park at
Therkkuveerapandiyapuram Village in Ottapidaram Taluk and
Meelavittan Village in Thoothukudi Taluk, Thoothukudi District,
Tamil Nadu - Submission of copy of the Press Release on issue of
Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7939/EC/8(b)/796/2022 dated:
02.02.2022.

With reference to the above, we have obtained Environmental Clearance
(EC) from SEIAA, TN. As per EC condition, the advertisement regarding issue of
Environment Clearance for Development of Industrial Park at
Therkkuveerapandiyapuram Village of Ottapidaram Taluk and Meelavittan Village
of Thoothukudi Taluk in Thoothukudi District over an extent of 466.503 Hectares
has been released in 'The New Indian Express' Tirunelveli edition dated
17.02.2022 in English language and 'Dinakaran' Nelli edition dated 17.02.2022
in Tamil Language.

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



/Forwarded by Order/

Yours faithfully,
Sd/--
GENERAL MANAGER (P-III)

ASSISTANT GENERAL MANAGER (P-III)

Encl.: As above

STP,
FC completed
o/c
13/5/22

PO/TUT/Phase - II /2022

dt: 14.3.2022.

The President,
Therkkuveerapandiapuram Village Panchayat,
Ottapidaram Taluk,
Thoothukudi District - 628002
Madam,

Sub: SIPCOT, Industiral Complex at Therkkuveerapandiapuram and
Meelavittan Villages, Thoothukudi District - Submission of copy
of Environmental Clearance issued by SEIAA - Reg.

Ref: SIPCOT Lr.No. Projects - III/EC/ Thoothukudi 2022 dt: 4.3.2022.

&*&*&*&*&*&

We submit that we have been instructed to Hand over the copy of
Environmental Clearance issued by SEIAA for the proposed Development of
SIPCOT Industrial Park at Therkkuveerapandiauram Village of Ottapidaram Taluk
and Meelavittan Village of Thoothukudi Taluk, Thoothukudi District Tamil Nadu
over an extent of 466.503 hectares (1152.26 acres).

Therefore we herewith furnish the copy of the Environmental
Clearence for your kind Perusal.

Thanking You,

Yours faithfully,

PROJECT OFFICER,
SIPCOT, TUTICORIN.

Encl : as above.

செ.மணிமுத்தாஸ்
தலைவர்
ஊராட்சி மற்றும்
தெற்கு வீரபாண்டியபுரம்

PO/TUT/Phase - II /2022

dt: 14.3.2022.

The Commissioner,
Thoothukudi Municipal Corporation,
113 Palai Road,
Thoothukudi,
Madam,

Sub: SIPCOT, Industiral Complex at Therkkuveerapandiapuram and
Meelavittan Villages, Thoothukudi District - Submission of copy
of Environmental Clearance issued by SEIAA - Reg.

Ref: SIPCOT Lr.No. Projects - III/EC/ Thoothukudi 2022 dt: 4.3.2022.

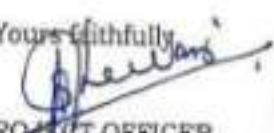
&*&*&*&*&

We submit that we have been instructed to Hand over the copy of
Environmental Clearance issued by SEIAA for the proposed Development of
SIPCOT Industrial Park at Therkkuveerapandiauram Village of Ottapidaram Taluk
and Meelavittan Village of Thoothukudi Taluk, Thoothukudi District Tamil Nadu
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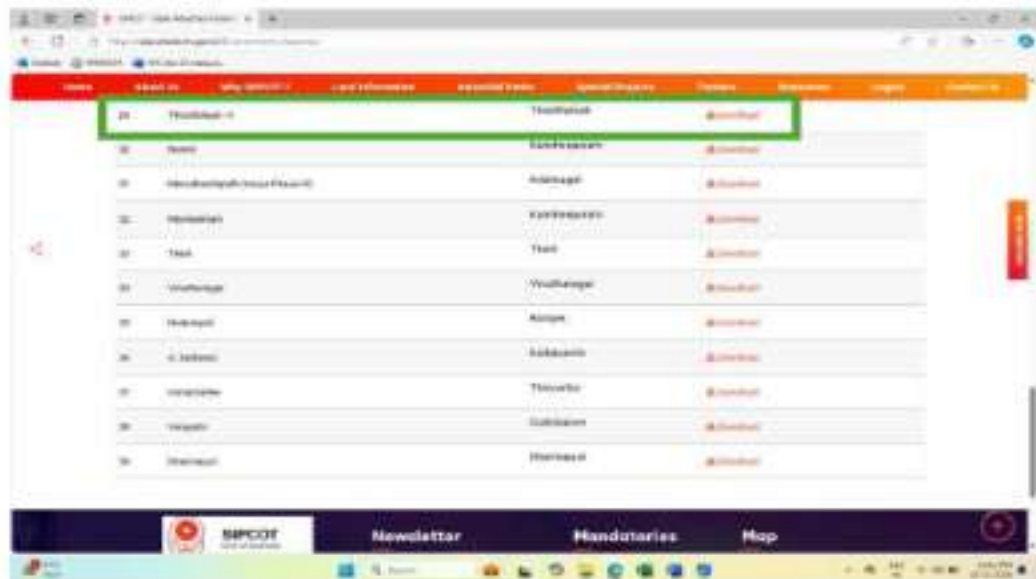
Thanking You,

Yours faithfully,


PROJECT OFFICER,
SIPCOT, TUTICORIN.

Encl : as above.





The screenshot displays the SPCOT portal interface. At the top, there is a navigation bar with links: Home, About Us, Why SPCOT?, Contact Information, Registered Users, Special Features, Policies, Documents, Login, and Contact Us. Below this is a table of items for procurement. The first item, 'Tea', is highlighted with a green box. The table lists various items with their IDs, descriptions, and status.

ID	Description	Status
24	Tea	Completed
25	Tea	Completed
26	Tea	Completed
27	Tea	Completed
28	Tea	Completed
29	Tea	Completed
30	Tea	Completed
31	Tea	Completed
32	Tea	Completed
33	Tea	Completed
34	Tea	Completed
35	Tea	Completed
36	Tea	Completed
37	Tea	Completed
38	Tea	Completed
39	Tea	Completed
40	Tea	Completed

At the bottom of the page, there is a footer with the SPCOT logo, a Newsletter link, a Handout link, and a Map link. The system clock shows the date and time as 11/11/2024, 11:11:11 AM.

Hubert Enviro Care Systems (P) Ltd.

A-21, II Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 42935555 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 : Therkuvapuram
Group : Atmospheric Pollution
Sample Name : Ambient Air(Air)
Sample Mark : Project Site
Sample Reference : NA
Sample Down By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : TNA
Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.0
Sampling Method & Place : IS 5182 Part 5 & Part 14

U/LR : TC1231024000465099
Report No : HECS/AP/01K/270924
Sample ID No : 270924070
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 08/10/2024
Report Date : 04/10/2024
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Bioclimat - Chemical						
1	Arsenic	µg/m ³	BLQ (LOQ: 2.0)	HECS-GTNS/SOP/001 Issue No./01 Issue Date:01.01.2023	6 (Annual)	6 (Annual)
2	Nickel	µg/m ³	BLQ (LOQ: 2.0)	HECS-GTNS/SOP/001 Issue No./01 Issue Date:01.01.2023	30 (Annual)	30 (Annual)
3	Benzene AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	3 (Annual)	3 (Annual)
4	Benzene (m-xylene) AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 12: 2006	1 (Annual)	1 (Annual)
5	Amonia as NO ₂	µg/m ³	5.24	IS 5182 (Part 23) 2006	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m ³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Class-4 1999	4 (1 hour)	7 (8 hours)
7	Nitrogen Dioxide as NO ₂	µg/m ³	21.38	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	10.45	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	49.13	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	22.76	IS 5182 (Part 24) 2009	60 (24 hours)	40 (Annual)
11	Sulphur Dioxide as SO ₂	µg/m ³	10.25	IS 5182 (Part 21) 2001	80 (24 hours)	50 (Annual)
12	Total	µg/m ³	BLQ (LOQ: 0.03)	HECS-GTNS/SOP/001 Issue No./01 Issue Date:01.01.2023	1 (24 hours)	0.5 (Annual)

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

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

End of Report



D.Annanya
Lab-Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client :	M/s. SIPCOT	Report No :	HECS/AP/018/270924/N
Address of the Client :	Therkuvverigandipuram	Sample ID No :	170924070
Group :	Atmospheric Pollution	Sampling Date :	17/09/2024
Sample Name :	Ambient Air(Air)	Received Date :	17/09/2024
Sample Matrix :	Project Site	Commenced Date :	17/09/2024
Sample Reference :	NA	Completed On :	03/10/2024
Sample Shown By :	M/s. Hubert Enviro care Systems (P) Ltd.	Report Date :	04/10/2024
Sample Location :	NA	Sample quantity :	NA
Environmental Condition :	Temperature (°C) : 32.0 Humidity (%) : 56.0		
Sampling Method & Plan :	IS 5182 Part 5 & Part 14		

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SCPM05 Issue No.01 Issue Date 02.10.2020

Notes: 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


TEST REPORT

Page: 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Therkavetpundiyapuram
Group : Atmospheric Pollution
Sample Name : Ambient Air(Air)
Sample Matl : Thottapurai
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.8
Sampling Method & Plan : IS 5182 Part 5 & Part 14

U/LR : TC12310340009445108
Report No. : HECS/AP/019/270924
Sample ID No : 270924072
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 03/10/2024
Report Date : 04/10/2024
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ug/m3	BLQ (LOQ: 2.0)	HECS-GPNS/SOP/010 Issue No. 01 Issue Date: 01.01.2023	6 (Annual)	6 (Annual)
2	Nickel	ug/m3	BLQ (LOQ: 2.0)	HECS-GPNS/SOP/041 Issue No. 01 Issue Date: 01.01.2023	20 (Annual)	20 (Annual)
3	Benzene-AAQ	ug/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	3 (Annual)	3 (Annual)
4	Benzene (a) pyrene-AAQ	ug/m3	BLQ (LOQ: 0.1)	IS 5182 Part 12: 2006	1 (Annual)	1 (Annual)
5	Ammonia as NH3	ug/m3	8.30	IS 5182 (Part 23): 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 dioxide as NO2	ug/m3	18.33	IS 5182 (Part 6): 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	ug/m3	18.38	IS 5182 (Part 9): 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	ug/m3	45.79	IS 5182 (Part 23): 2018	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	ug/m3	22.50	IS 5182 (Part 24): 2018	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	ug/m3	14.98	IS 5182 (Part 2): 2004	80 (24 hours)	50 (Annual)
12	Lead	ug/m3	BLQ (LOQ: 0.007)	HECS-GPNS/SOP/041 Issue No. 01 Issue Date: 01.01.2023	1 (24 hours)	0.5 (Annual)

Note: BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification, µg/m³ - Microgram per cubic meter, mg/m³ - Milligram per cubic meter, µg/m³ - Nanogram per cubic meter.

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

End of Report



D. Ananya
Lab Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
 Address of the Client : Thiruvarepandiyapuram
 Group : Atmospheric Pollution
 Sample Name : Ambient Air(Air)
 Sample Matl : Thattapurai
 Sample Reference : NA
 Sample Given 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/019/270924/N
 Sample ID No : 270924072
 Sampling Date : 27/09/2024
 Received Date : 27/09/2024
 Commenced Date : 27/09/2024
 Completed On : 03/10/2024
 Report Date : 04/10/2024
 Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppm	9.32	HECS-G/31V/AAQ/SCIP/005 Issue No. 01 Issue Date:02/40 2020

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

End of Report



D. Anusuja
 Lab Manager
 Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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

**Laboratory Services Division**

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

**TEST REPORT**

Page: 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Therkuvengundiyapuram

Group : Atmospheric Pollution

Sample Name : Ambient Air(AI)

Sample Mkt : Pondicherry

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.8

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

ULR : TCT218240000465119

Report No. : HECS/APP/2024/270924

Sample ID No : 270924074

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 03/10/2024

Report Date : 04/10/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m ³	BLQ (LOQ: 7.0)	HECS-GINS/SOP/041 Issue No. 01 Issue Date 01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m ³	BLQ (LOQ: 7.0)	HECS-GINS/SOP/041 Issue No. 01 Issue Date 01.03.2021	20 (Annual)	20 (Annual)
3	Benzo(a)AQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene- AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NO ₂	ppb/m ³	6.69	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m ³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 (2009)	4 (1 hour)	2 (8 hours)
7	Nitrogen dioxide as NO ₂	µg/m ³	20.81	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	12.78	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	52.26	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	26.71	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO ₂	µg/m ³	11.38	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m ³	BLQ (LOQ: 0.002)	HECS-GINS/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/m³- Microgramme per cubic meter, mg/m³-Milligramme per cubic meter, ng/m³-Nanogramme per cubic meter.

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

End of Report



D. Ananya
Lab Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
 Address of the Client : Thiruvananthapuram
 Group : Atmospheric Pollution
 Sample Name : Ambient Air(Air)
 Sample Mark : Pancharanputhi
 Sample Reference : NA
 Sample Taken By : M/s. Hubert Enviro care Systems (P) Ltd.
 Sample Location : NA
 Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.8
 Sampling Method & Place : IS 5182 Part 5 & Part 14

Report No. : HECS/APR20/270926/N
 Sample ID No : 270924074
 Sampling Date : 27/09/2024
 Received Date : 27/09/2024
 Commenced Date : 27/09/2024
 Completed On : 03/10/2024
 Report Date : 04/10/2024
 Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TNOC	ppm	BLQ(LOQ 0.1)	HECS-GENV/AAQ50P003 Issue No. 01 Issue Date:02.07.2020

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

End of Report



D. Arumaya
 Lab Manager
 Authorized Signatory

**TEST REPORT**

Page : 1 of 1

Name of the Client : **M/s. SIPCOT**
Address of the Client : **Therkuvappandiapuram**U/LR : **TC12310340000465128**
Report No. : **HECS/AP021/278924**
Sample ID No. : **278924036**
Sampling Date : **27/09/2024**Group : **Atmospheric Pollution**
Sample Name : **Ambient Air(AIR)**
Sample Mark : **Pudur pandiyapuram**
Sample Reference : **NA**
Sample Taken By : **M/s. Hubert Enviro-care Systems (P) Ltd.**
Sample Location : **NA**
Environmental Condition : **Temperature (°C) : 32.8 Humidity (%) : 56.8**
Sampling Method & Plan : **IS 5182 Part 5 & Part 14**Received Date : **27/09/2024**
Commenced Date : **27/09/2024**
Completed On : **10/10/2024**
Report Date : **10/10/2024**
Sample quantity : **NA**

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	µg/m ³	BLQ (LOQ: 2.0)	HECS-G/MS/OP/041 Issue No. 01 Issue Date:01.03.2023	6 (Annual)	6 (Annual)
2	Nickel	µg/m ³	BLQ (LOQ: 2.0)	HECS-G/MS/OP/041 Issue No. 01 Issue Date:01.03.2023	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	3 (Annual)	3 (Annual)
4	Benzene (2 ppm)-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 12: 2006	1 (Annual)	1 (Annual)
5	Acetone as HCl	µg/m ³	5.94	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m ³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Clause 4 :1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxide as NO ₂	µg/m ³	20.14	IS 5182 (Part 9) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	11.49	IS 5182 (Part 9) 1974	180 (1 hours)	180 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	43.23	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	18.40	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO ₂	µg/m ³	8.89	IS 5182 (Part 21) 2000	80 (24 hours)	50 (Annual)
12	Lead	µg/m ³	BLQ (LOQ: 0.002)	HECS-G/MS/OP/041 Issue No. 01 Issue Date:01.03.2023	1 (24 hours)	0.5 (Annual)

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-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

TEST REPORT

Page : 1 of 1

Name of the Client	: M/s. SIPCOT	Report No.	: HECS/APR21/G709240N
Address of the Client	: Thiruvananthapuram	Sample ID No	: 270914076
Group	: Atmospheric Pollution	Sampling Date	: 27/09/2024
Sample Name	: Ambient Air(AE)	Received Date	: 27/09/2024
Sample Mark	: Podur pandiyapuram	Completed Date	: 27/09/2024
Sample Reference	: NA	Completed On	: 03/10/2024
Sample Drawn By	: M/s. Hubert Enviro-care Systems (P) Ltd.	Report Date	: 04/10/2024
Sample Location	: NA	Sample quantity	: NA
Environmental Condition	: Temperature (°C) : 32.8 Humidity (%) : 66.8		
Sampling Method & Place	: IS 5182 Part 5 & Part 14		

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-GENVIAAQ50F90S 5mm 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. Ananya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page: 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Therkuvayalpet
Group : Atmospheric Pollution
Sample Name : Ambient Air (AB)
Sample Matrix : Therkuvayalpet
Sample Retention : N/A
Sample Shown By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : N/A
Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

U/LB : TC1231024000449297
Report No. : HECN/AP021279924
Sample ID No : 1270924077
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : N/A

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	µg/m ³	BLQ (LOQ: 1.0)	HECS-GTNS50P-041 Issue No. 01 Issue Date 01.01.2021	5 (Annual)	5 (Annual)
2	Nickel	µg/m ³	BLQ (LOQ: 1.0)	HECS-GTNS50P-041 Issue No. 01 Issue Date 01.01.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benz(a) pyrene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	1 (Annual)	1 (Annual)
5	Arsenic as Hg1	µg/m ³	8.91	IS 5182 (Part 21) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m ³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Clause 4 (199)	4 (1 hour)	2 (8 hours)
7	Nitrogen dioxide as NO2	µg/m ³	24.92	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m ³	13.51	IS 5182 (Part 9) 1974	180 (1 hour)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	49.30	IS 5182 (Part 21) 2018	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	26.93	IS 5182 (Part 26) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m ³	13.41	IS 5182 (Part 2) 2001	60 (24 hours)	50 (Annual)
12	Lead	µg/m ³	BLQ (LOQ: 0.007)	HECS-GTNS50P-041 Issue No. 01 Issue Date 01.01.2021	1 (24 hours)	0.5 (Annual)

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Microgram per cubic meter, mg/m³-Milligram per cubic meter, µg/m³-Nanogram per cubic meter.

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

*** End of Report ***



B. 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	Report No.	: HECS/ANP022/270924/N
Address of the Client	: Therkuvengandiyapuram	Sample ID No.	: 270924077
Group	: Atmospheric Pollution	Sampling Date	: 27/09/2024
Sample Name	: Ambient Air(AI)	Received Date	: 27/09/2024
Sample Mark	: Therkuvengandiyapuram	Commenced Date	: 27/09/2024
Sample Reference	: NA	Completed On	: 04/10/2024
Sample Taken By	: M/s. Hubert Enviro care Systems (P) Ltd.	Report Date	: 04/10/2024
Sample Location	: NA	Sample quantity	: NA
Environmental Conditions	: Temperature (°C) : 32.0 / Humidity (%) : 56.0		
Sampling Method & Plan	: IS 5182 Part 5 & Part 14		

S.No.	Test Parameters	Units	Results	Test Method
Dispersive : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-GENV/AAQ/SOP005 Issue No. 01 Issue Date 03.07.2020

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


TEST REPORT

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Name of the Client : M/s. SHN CITY

Address of the Client : Thekkoverapandiapuram

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Near Project area

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 ± Humidity (%) : 51.8

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

LSR : TC123102400004786F

Report No. : HECSL/WT/024/270924

Sample ID No : 270924081

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2022	
					Acceptable Limits (ppm)	Permissible Limits (Max)
Discipline : Chemical						
1	Arsenic as As ₂ O ₃	mg/l	BLQ(LQ:0.02)	IS 3025 Part 34 Sec 2: 2021 (Neutronization Method)	0.5	No relaxation
2	Arsenic Surface Active agents as MBAS	mg/l	BLQ(LQ:0.01)	APHA 13rd edition (Method 3140 B) , Cl: 2017	0.2	-
3	Bio carbon	mg/l	700.0	IS 3025 Part 51: 2003	NA	NA
4	Biological Oxygen Demand (BOD ₅ @ 27°C For 5 days)	mg/l	BLQ(LQ:2.0)	IS 3025 Part 40: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LQ:0.1)	IS 3025 Part 57 -Cyanide Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	44.06	IS 3025 Part 40: 1993(EDTA Titrimetric Method)	35	300
7	Carbonate	mg/l	BLQ(LQ:1.0)	IS 3025 Part 52: 2003	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	112.08	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LQ:1.0)	IS 3025 (Part)- 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LQ:0.01)	IS 3025 Part 23 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 30): 1989 (Titrimetric Method)	NA	NA


 B. Ananya
 Lab Manager
 Authorized Signatory


**TEST REPORT**

Page: 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thiruvananthapuram

Group : Water

Sample Name : Ground Water (AR)

Sample Mark : Near Project area

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 53.0

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

ULB : TC1231024000046786F

Report No. : HEC/SL/WT/026/270924

Sample ID No. : 270924001

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Liters

S.No.	Test Parameters	Units	Results	Test Method	IS 4500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	761.0	IS 3025 Part 44: 2003	NA	NA
14	Fluoride as F	mg/l	0.41	APHA 23rd edition (Method 4500-FB, 33, 2017)	1.0	1.5
15	Iron as Fe	mg/l	0.001	IS 3025 (Part 33): 2003	1.0	No calculation
16	Magnesium as Mg	mg/l	28.3	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Manganese as Mn	mg/l	14.3	APHA 23rd edition (Method 4500-MnB): 2017	45	No calculation
18	Potassium Sodium	%	37.45	HEC/SL/WT/509/002: 2019	NA	NA
19	pH at 25°C	-	7.74	IS 3025(Part 11): 2003 (Electrode method)	4.5-8.5	No calculation
20	Phosphate compounds as PO4/P	mg/l	BLQ(LOQ) 0.001	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Phosphate as P	mg/l	5.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	mmol/L	BLQ(LOQ) 1.0	IS 11026: 2019	NA	NA
23	Sulfate Ascorbic Acid(SAR)	Square root of (millimole/L)	1.29	IS 11026: 2019	NA	NA
24	Sulfate as SO4	mg/l	48.0	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 : Thiruvananthapuram

Group : Water

Sample Name : Ground Water (AB)

Sample Matrix : Near Project area

Sample Reference : NA

Sample Dispatch By : M/s. Hubert Enviro care systems (P) Ltd.

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 ± Humidity (%) : 51.8

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

ULR : TC123102408046786F

Report No. : HEC/SL/WT/026/270924

Sample ID No : 270924081

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Ltr/pc

S.No.	Test Parameters	Units	Results	Test Method	IS 10000 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
22	Sulphate as SO ₄	mg/l	27.34	IS 3025 Part 24 Sec 1: 2023 Turbidity Method	200	400
26	Total alkalinity as CaCO ₃	mg/l	300.0	IS 3025 (Part 21): 1996	200	500
27	Total dissolved solids	mg/l	418.0	IS 3025 (Part 16): 1994	500	3000
28	Total Suspended Solids	mg/l	81.0 (LOQ 2.0)	IS 3025 (Part 17): 1994	NA	NA
29	Phosphate as PO ₄	mg/l	0.18	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorus as P	mg/l	0.003	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	710.0	IS 3025 (Part 21): 1996	200	600
32	Turbidity, NTU	NTU	81.0 (LOQ 0.1)	IS 3025 (Part 16): 1994	1	1
33	Arsenic	mg/l	81.0 (LOQ 0.001)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	81.0 (LOQ 0.01)	USEPA 200.8 : 1994	0.3	No relaxation
35	Cadmium	mg/l	81.0 (LOQ 0.001)	USEPA 200.8 : 1994	0.005	No relaxation
36	Chromium	mg/l	81.0 (LOQ 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	81.0 (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 : Thiruvananthapuram

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Near Project area

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 | Humidity (%) : 51.8

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

CLR : TC1231024000044766F

Report No : HECSL/WT/026/270928

Sample ID No : 270924001

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 18989 : 2002	
					Acceptable Levels (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ : 0.05)	IS 18989 : 2002	0.01	No relaxation
39	Manganese	mg/l	BLQ (LOQ : 0.01)	IS 18989 : 2002	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ : 0.002)	IS 18989 : 2002	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ : 0.01)	IS 18989 : 2002	0.01	No relaxation
42	Selenium	mg/l	BLQ (LOQ : 0.005)	IS 18989 : 2002	0.01	No relaxation
43	Zinc	mg/l	BLQ (LOQ : 0.01)	IS 18989 : 2002	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

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Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/026/27092024

Address of the Client : Thiruvananthapuram

Sample ID No. : 270920001

Sampling Date : 27/09/2024

Group : Water

Received Date : 27/09/2024

Sample Name : Ground Water (AR)

Commenced Date : 27/09/2024

Sample Mark : Near Project area

Completed On : 04/10/2024

Sample Reference : NA

Report Date : 04/10/2024

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

Sample quantity : 1 Litres

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 ; Humidity (%) : 54.0

Sampling Method & Place : IS 17614 (Part-1):2022

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Heavy Metals Chromium as Cr(VI)	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 - Milligram per liter.

---End of Report---



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**TEST REPORT**

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Name of the Client : M/s. SIPCOT

Address of the Client : Thiruvananthapuram

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Thattapara

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.8

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

ILR : TC1231024000046785F

Report No. : HECSL/WT/027/278924

Sample ID No : 278924084

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10000 : 2013	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Arsenite as AsH_3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Arsenic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 H ₂ C ₂) 2017	0.2	1
3	Bicarbonate	mg/l	190.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD) ₅ @ 20°C For 5 days	mg/l	32.10	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Circumino Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	52.10	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	186.16	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 34): 1989 (Titrimetric Method)	NA	NA



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TEST REPORT

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Name of the Client : M/s. SIPCOT

Address of the Client : Thesuvaregundiyapuram

Group : Water

Sample Name : Ground Water (AR)

Sample Mark : Thattapural

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 | Humidity (%) : 51.8

Sampling Method & Plan : IS 17414(Part-1)-2021

ULR : TC1231024000046765F

Report No. : HECS/WT/627/270928

Sample ID No : 270924084

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 18086 : 2012	
					Acceptable Levels (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	963.8	IS 3023 Part 11: 2013	NA	NA
14	Fluoride as F	mg/l	0.39	APHA 23rd edition (Method 4500-F, Cl) 2017	1.0	1.5
15	Iron as Fe	mg/l	81.0 (LOQ 0.005)	IS 3025 (Part 11): 2013	1.0	No relaxation
16	Magnesium as Mg	mg/l	26.73	IS 3023 Part 40: 1999 (Volumetric Method using EDTA)	30	100
17	Manganese as Mn	mg/l	4.76	APHA 23rd edition (Method 4500-MnB) 2017	40	No relaxation
18	Potassium Sodium	%	44.12	HECS/WT/SOP/002 : 2019	NA	NA
19	pH at 25°C	-	7.63	IS 3026(Part 11) : 2017 (Electrode method)	6.5-8.5	No relaxation
20	Phenolic compounds as C ₆ H ₅ OH	mg/l	81.03 (LOQ 0.001)	IS 3025 Part 41 Sec 1: 2013	0.001	0.002
21	Phosphate as P	mg/l	1.04	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	86.03 (LOQ 1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (meq/litres/lit)	2.33	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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**Laboratory Services Division**

(Chemical & Biological Testing)
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**TEST REPORT**

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Name of the Client : M/s. SIPCOT

Address of the Client : Thiruvananthapuram

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Thiruvananthapuram

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 55.0

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

UIR : TC12102400046785F

Report No : HECSL/WTC/27/20924

Sample ID No : 270924004

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 06/10/2024

Report Date : 06/10/2024

Sample quantity : 1 Liters

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	57.14	IS 3025 Part 24 Sec 1, 2012 : Turbidity Method	200	400
26	Total alkalinity as CaCO ₃	mg/l	180.0	IS 3025 (Part 21): 1986	200	600
27	Total dissolved solids	mg/l	240.0	IS 3025 (Part 10): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ (LOQ 1.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO ₄	mg/l	BLQ (LOQ 0.02)	IS 3025 Part 31 Sec 1, 2012 : Stannous Chloride method	NA	NA
30	Phosphorus as P	mg/l	BLQ (LOQ 0.02)	IS 3025 Part 31 Sec 1, 2012 : Stannous Chloride method	NA	NA
31	Total hardness as CaCO ₃	mg/l	240.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ (LOQ 0.1)	IS 3025 (Part 10): 1984	1	5
33	Ammonia	mg/l	BLQ (LOQ 0.005)	USEPA 200.8 : 1994	0.05	No relaxation
34	Boron	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	0.05	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



H. Ananya
Lab Manager
Authorized Signatory



TEST REPORT

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Name of the Client : M/s. SIPCOT

Address of the Client : Therkuvapandiapuram

Group : Water

Sample Name : Ground Water (AR)

Sample Mark : Thattapural

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 ± Humidity (%) : 51.0

Sampling Method & Place : IS 17014(Part-1):2021

U/LR : TC1251624000646785F

Report No. : HECSL/WT/02/270924

Sample ID No. : 270924004

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commencement Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10100 - 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.005)	IS 2291A 2008 : 1999	0.01	No relaxation
39	Manganese	mg/l	BLQ (LOQ: 0.01)	IS 2291A 2008 : 1999	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	IS 2291A 2008 : 1999	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.01)	IS 2291A 2008 : 1999	0.02	No relaxation
42	Selenium	mg/l	BLQ (LOQ: 0.005)	IS 2291A 2008 : 1999	0.01	No relaxation
43	Zinc	mg/l	BLQ (LOQ: 0.01)	IS 2291A 2008 : 1999	5	12

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

End of Report



D. Ananya
Lab Manager
Authorized Signatory

TEST REPORT

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Name of the Client : M/s. SIPCOT

Report No. : HECS/LVT/027/20W24N

Address of the Client : Thiruvareppandiyapuram

Sample ID No : 270924084

Sampling Date : 27/09/2024

Group : Water

Received Date : 27/09/2024

Sample Name : Ground Water (All)

Commenced Date : 27/09/2024

Sample Mark : Thattaporal

Completed On : 04/10/2024

Sample Reference : NA

Report Date : 04/10/2024

Sample Taken By : M/s. Hubert Envirocare Systems (P) Ltd.

Sample quantity : 1 Litres

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 ; Humidity (%) : 81.8

Sampling Method & Place : IS 17634(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method
Disinfectant : Chemical				
1	Residual Chlorine as Cl ₂	mg/l	BLQ (LOQ: 0.05)	IS 3025 Part 52: 2005 (Dithionite Carbamide method)

Notes: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l - Milligram per liter.
"End of Report"H. Ananya
Lab Manager
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**TEST REPORT**

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Name of the Client : M/s. SIPCOT

Address of the Client : Therkurampadiyapuram

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Pandarampathi

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 54.8

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

ULR : TC1231024000046764F

Report No. : HECSL/WT/628/270928

Sample ID No : 270924086

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 18588 - 2012	
					Acceptable Limits (Max)	Feasibility Limits (Max)
Disinfectant - Chemical						
1	Amonia as NH ₃	mg/l	88.01.00.0.07 1	IS 3025 Part 14 Sec 2- 2021 (Resubstantion Method)	0.5	No relaxation
2	Alkalic Surface Active agents as MBAS	mg/l	88.01.00.0.05 1	APHA 23rd edition (Method 5540 B) C/ 2017	0.2	-
3	Bi carbonate	mg/l	176.0	IS 3025 Part 51- 2001	NA	NA
4	Biological Oxygen Demand (BOD ₅ at 27°C for 5 days)	mg/l	88.01.00.2.05	IS 3025 Part 44- 1993	NA	NA
5	Boron as B	mg/l	88.01.00.0.1	IS 3025 Part 57 - Cincrocin Method 2021	0.5	2.4
6	Calcium as Ca	mg/l	40.08	IS 3025 Part 48- 1991(EDTA Titrimetric Method)	75	250
7	Carbonate	mg/l	88.01.00.2.05	IS 3025 Part 51- 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	88.01.00.4.05	IS 3025 Part 58- 2006	NA	NA
9	Chloride as Cl ⁻	mg/l	43.66	IS 3025 Part 32- 1988 (Argentometric Method)	250	1000
10	Cyber	Boron as B	88.01.00.2.05	IS 3025 (Part 5)- 2021	5	15
11	Cyanide as CN ⁻	mg/l	88.01.00.6.01 1	IS 3025 Part 27 Sec 1- 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 36)- 1989 (Titrimetric Method)	NA	NA



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Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. NIPCOIT

Address of the Client : Thiruvananthapuram

Group : Water

Sample Name : Ground Water (AR)

Sample Matrix : Pondwater/sapthi

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 26.8 Humidity (%) : 51.8

Sampling Method & Plan : IS 17014(Part-1):2021

ULR : TC121024000046754F

Report No. : HECSL/WT/928/270924

Sample ID No : 170924006

Sampling Date : 17/09/2024

Received Date : 17/09/2024

Commenced Date : 17/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 18000 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	556.8	IS 3025 Part 14: 2012	NA	NA
14	Fluoride as F	mg/l	0.27	APHA 3rd edition (Method 4500-F-1b) 2017	1.0	1.5
15	Iron as Fe	mg/l	HECHLOQ 0.01	IS 3025 (Part 33): 2012	1.0	No relaxation
16	Magnesium as Mg	mg/l	21.87	IS 3025 Part 46: 1993 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	3.91	APHA 3rd edition (Method 4500-NO3H) 2017	45	No relaxation
18	Potassium Sulphate	%	29.28	HECS NPT/50/PM2 : 2019	NA	NA
19	pH at 25°C	-	7.47	IS 3025(Part 11): 2012 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	HECHLOQ 0.001	IS 3025 Part 43 Ser 1: 2012	0.001	0.002
21	Potassium as K	mg/l	2.8	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sulphate Carbonate	mg/l	HECHLOQ 1.16	IS 13624: 2019	NA	NA
23	Sulphate Adsorption Ratio(SAR)	Texture ratio of (meq/100ml)	1.19	IS 13624 : 2019	NA	NA
24	Sulphate as S ₂	mg/l	55.8	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA

D. Annaya
Lab Manager
Authorized Signatory


TEST REPORT

Page: 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Therkoverapandiypuram

Group : Water

Sample Name : Ground Water (AR)

Sample Mark : Pancharatchi

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 Humidity (%) : 51.8

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

ULR : TC123183400046784F

Report No. : HECSL-WT/026/270924

Sample ID No : 270924086

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed Date : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Liters

S.No.	Test Parameters	Units	Results	Test Method	IS 10100 : 2002	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	17.17	IS 3025 Part 24 Sec 1: 2002 Turbidity Method	200	400
26	Total alkalinity as CaCO ₃	mg/l	176.8	IS 3025 (Part 23): 1988	200	400
27	Total dissolved solids	mg/l	317.8	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	80.0 (LOQ: 0.0)	IS 3025 (Part 17): 1988	NA	NA
29	Phosphate as PO ₄	mg/l	80.0 (LOQ: 0.0)	IS 3025 Part 34 Sec 1: 2002 (Barium Chloride method)	NA	NA
30	Phosphorus as P	mg/l	80.0 (LOQ: 0.0)	IS 3025 Part 35 Sec 1: 2002 (Barium Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	196.8	IS 3025 (Part 23): 2008	200	600
32	Turbidity, NTU	NTU	80.0 (LOQ: 1.1)	IS 3025 (Part 16): 1984	1	5
33	Arsenic	mg/l	80.0 (LOQ: 0.005)	IS 3025 Part 30: 1994	0.05	No relaxation
34	Barium	mg/l	80.0 (LOQ: 0.0)	IS 3025 Part 30: 1994	0.7	No relaxation
35	Cadmium	mg/l	80.0 (LOQ: 0.0)	IS 3025 Part 30: 1994	0.005	No relaxation
36	Chromium	mg/l	80.0 (LOQ: 0.0)	IS 3025 Part 30: 1994	0.05	No relaxation
37	Copper	mg/l	80.0 (LOQ: 0.0)	IS 3025 Part 30: 1994	0.05	1.5


 D. Ananya
 Lab Manager
 Authorized Signatory

**TEST REPORT**

Page: 4 of 8

Name of the Client : M/s. SIPCOT

Address of the Client : Thekkurugundiapattanam

Group : Water

Sample Name : Ground Water (AB)

Sample Mark : Poudaruguthi

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 54.8

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

CLR : TC121024000447848

Report No. : HEC/CL/WT/020270924

Sample ID No : 270924086

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Liters

S.No.	Test Parameter	Units	Results	Test Method	IS 18086 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.025)	ISIRPA 300.8 : 1994	0.05	No relaxation
39	Manganese	mg/l	BLQ (LOQ: 0.01)	ISIRPA 300.8 : 1994	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0001)	ISIRPA 300.8 : 1994	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.01)	ISIRPA 300.8 : 1994	0.02	No relaxation
42	Selenium	mg/l	BLQ (LOQ: 0.005)	ISIRPA 300.8 : 1994	0.01	No relaxation
43	Zinc	mg/l	BLQ (LOQ: 0.05)	ISIRPA 300.8 : 1994	5	15

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

End of Report



B. Ananya
Lab Manager
Authorized Signatory



TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Thiruvananthapuram

Group : Water

Sample Name : Ground Water (AB)

Sample Matl : Pandarapatti

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0

Sampling Method & Plan : IS 17616(Part-1):2021

Report No : HECSL/WT/028/270924/N

Sample ID No : 270924086

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litre

S.No.	Test Parameters	Units	Results	Test Method
Disinfectant - Chemical				
1	Dichlorate Chromium as Cr6+	mg/l	BLQ(LOQ:1.0)	IS 805 Part 52: 2003 (Dyeing) Carbazole method

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

("Limit of Report")



D. Amranya

Lab Manager

Authorized Signatory



TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thiruvananthapuram

Group : Water

Sample Name : Surface Water (AB)

Sample Mark : Pond Near Palarpandiyapuram

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 | Humidity (%) : 51.8

Sampling Method & Place : IS 17634 (Part-1):2021

U/LR : TC12310240000046783F
Report No : HECS/WTW020/270024
Sample ID No : 2700240007
Sampling Date : 27/09/2024

Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : 1 Liters

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2286, Class-A)
Discipline : Chemical					
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.03)	IS 3025 Part 34 Sec-2: 2021	NA
2	Bio carbon	mg/l	75.0	IS 3025 Part 51: 2003	NA
3	Biological Oxygen Demand (BOD ₅) 20°C For 5 days	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 44: 1993	3
4	Biom as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Circumetric Method)	NA
5	Calcium as Ca	mg/l	24.05	IS 3025 Part 40: 1993 (EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	46.54	IS 3025 Part 32: 1980 (Argentometric Method)	250
8	Colour	Platinum	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	3.9	IS 3025 Part 36: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	358.0	IS 3025 Part 34: 2012	NA
11	Fluoride as F	mg/l	0.31	APHA 2nd edition Method 4500 F-BL: 2017	1.5
12	Iron as Fe	mg/l	0.078	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO3	mg/l	1.14	APHA 2nd edition Method 4500 NO3B: 2017	30

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Lab Manager
Authorized Signatory





TEST REPORT

Page - 2 of 4

Name of the Client : MA, SIPCOT

Address of the Client : Thiruvengadam

Group : Water

Sample Name : Surface Water (AW)

Sample Mark : Pond Near Puthupandiyapuram

Sample Reference : NA

Sample Taken By : SAs, Hubert Enviro care Systems (P) Ltd.

Sample Location : NA

Environmental Condition

Sampling Method & Place : Temperature (°C) : 28.0 Humidity (%) : 51.8
IS 17614 (Part-1):2021

U/LR : TC1211024000467830
Report No : HECSL/WT029/270924
Sample ID No : 270924087
Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2286 Class-A)
14	pH at 25°C		7.83	IS 3025 Part 11: 2002 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	205.0	IS 3025 Part 16: 1994	300
16	Anionic Surface Active agents as SBA5	mg/l	BLQ(LOQ 0.05)	APHA 23rd edition Method 5340 D, C: 2017	0.2
17	Cyanide	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 3: 2021	0.01
19	Magnesium as Mg	mg/l	12.15	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	24.28
20	Potential Sodium	%	13.96	HECSL/WT501/0002 Issue No 01 Issue date 18.12.2021	NA
21	Phenolic compounds as CHENOH	mg/l	BLQ(LOQ 0.001)	IS 3025 Part 63 Sec 3: 2022	0.002
22	Phosphate as POM	mg/l	0.091	APHA 23rd edition Method 4500-P B.1: 2017	NA
23	Potassium as K	mg/l	1.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ 1.0)	IS 11674: 2019	NA
25	Sodium Adsorption Ratio(SAR)	mg/l	0.95	IS 11674: 2019	NA



B.Ammya
Lab Manager
Authorized Signatory

(Signature)

**TEST REPORT**

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Therkuvetapadiyapuram

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond Near Pudurpadiyapuram

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 ; Humidity (%) : 51.8

Sampling Method & Place : IS 17814(Part-1):2021

ULR : TC1231024000046783F

Report No : HECSL/WT/029/270824

Sample ID No : 270824007

Sampling Date : 27/08/2024

Received Date : 27/08/2024

Commenced Date : 27/08/2024

Completed On : 04/09/2024

Report Date : 04/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2286, Class-A)
26	Sulfate as SO_4	mg/l	23.0	IS 3025 Part 43: 1981	NA
27	Sulfate as SO_4	mg/l	21.74	IS 3025 Part 24 Sec 1: 2021	400
28	Total alkalinity as CaCO_3	mg/l	75.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO_3	mg/l	110.0	IS 3025 Part 21: 2009	300
30	Total Phosphorus as P	mg/l	0.027	IS 3025 Part 21 Sec 1: 2021	NA
31	Total Suspended Solids	mg/l	3.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	2.4	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Boron	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Chromium	mg/l	BLQ (LOQ: 0.005)	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	1.3
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: 0.001)	USEPA 200.8 : 1994	0.001

D. Ananya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thiruvengappandiapuram

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond Near Podurpandiapuram

Sample Reference : NA

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

Sample Location : NA

Environmental Conditions : Temperature (°C) : 28.0 Humidity (%) : 51.8

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

ULN : TC1231824000046783F

Report No. : HECS/LWT/029/278924

Sample ID No : 278924087

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 L/litre

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2286, Class-A)
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 2011 : 1994	NA
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 2011 : 1994	0.01
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 2011 : 1994	15

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

End of Report



D. Annappa
Lab Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
 Address of the Client : Thiruvarepundipapuram
 Group : Water
 Sample Name : Surface Water (AB)
 Sample Mark : Pond Near Pudurpundipapuram
 Sample Reference : NA
 Sample Drawn By : M/s Hubert Enviro care Systems (P) Ltd.
 Sample Location : NA
 Environmental Condition : Temperature (°C) : 28.8 Humidity (%) : 51.8
 Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HEC51/WTN29270924N
 Sample ID No. : 270924087
 Sampling Date : 27/09/2024
 Received Date : 27/09/2024
 Commenced Date : 27/09/2024
 Completed On : 04/10/2024
 Report Date : 04/10/2024
 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



D. Annasay
 Lab Manager
 Authorized Signatory

**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. NIPCOY

Address of the Client : Therkoverapandiapuram

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Thattapalai Lake

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.8

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

 U/L# : TC1231024000046782F
 Report No. : HEC/SL/WT/038/270924
 Sample ID No : 270924088
 Sampling Date : 27/09/2024
 Received Date : 27/09/2024
 Commenced Date : 27/09/2024
 Completed On : 04/10/2024
 Report Date : 04/10/2024
 Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards IS 2286, Class A1
Discharge : Chemical					
1	Ammonia as NH ₃	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Biochemical	mg/l	ND	IS 3025 Part 31: 2021	NA
3	Biological Oxygen Demand (BOD) @ 20°C For 5 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 (Cyanide Method)	NA
5	Calcium as Ca	mg/l	17.61	IS 3025 Part 40: 1993 (EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ 4.0)	IS 3025 Part 58: 2021	NA
7	Chloride as Cl	mg/l	81.23	IS 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Platinum-cobalt	BLQ(LOQ 1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	5.9	IS 3025 Part 59: 1999	6
10	Electrical Conductivity at 25°C	µS/cm	389.0	IS 3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.24	APHA 23rd edition Method 4500 F Clor 2017	1.5
12	Iron as Fe	mg/l	0.061	IS 3025 Part 53: 2021	0.3
13	Nitrate as NO ₃	mg/l	2.11	APHA 23rd edition Method 4500 NO ₃ B 2017	20


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 Lab Manager
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**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thekkurampadiyapuram

Group : Water

Sample Name : Surface Water (AID)

Sample Mark : Thattapalai Lake

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.0

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

I/R# : TC121142/000046782E

Report No. : HEC/SL/WT/036/279054

Sample ID No : 279924008

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Litters

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2286, Class-A)
14	pH at 25°C	-	8.14	IS 3025 Part 11: 2012 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	213.0	IS 3025 Part 16: 1994	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: 2011	NA
18	Cyanide as CN	mg/l	BLQ(LOQ 0.05)	IS 3025 Part 73 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	9.22	IS 3025 Part 90: 1994 (Volumetric Method using EDTA)	24.28
20	Potassium Sulfate	%	46.23	HEC/SL/WT/036/0002 Issue No.01 Issue date 18.12.2023	NA
21	Phenolic compounds as COD/COI	mg/l	BLQ(LOQ 0.001)	IS 3025 Part 43-Sec 1: 2012	0.002
22	Phosphate as PO4	mg/l	0.114	APHA 23rd edition Method 4500 P B: 2017	NA
23	Preparation as R	mg/l	3.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ 1.0)	IS 13656: 2018	NA
25	Soluble Adsorption Ratio(SAR)	Square root of (calcium/2)	1.38	IS 11656: 2019	NA

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Laboratory Services Division

(Chemical & Biological Testing)
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TEST REPORT

Page : 4 of 4

Name of the Client : M/s. NIPCOIT
Address of the Client : Therkuvempandiyapuram
Group : Water
Sample Name : Surface Water (All)
Sample Mark : Thattapandi Lake
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 84.8
Sampling Method & Plan : ICARDA/2013

U.R. : TC12310240000467819
Report No. : HECSL/WI/036/270924
Sample ID No : 1270924000
Sampling Date : 12/09/2024
Received Date : 12/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : 1 Liter

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2286, Class-A)
41	Nitral	mg/l	BLQ (LOQ: 0.01)	USEPA 200.5 : 1994	NA
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.5 : 1994	0.05
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.5 : 1994	15

Note: BLQ - Below the Limit of Quantification, LOQ: Limit of Quantification, mg/l - Milligram per Liter.
End of Report



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

Name of the Client : M/s. SIPCOT
 Address of the Client : Thiruvananthapuram
 Group : Water
 Sample Name : Surface Water (A/E)
 Sample Math : Thattapuzha Lake
 Sample Reference : NA
 Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
 Sample Location : NA
 Environmental Condition : Temperature (°C) : 28.8 | Humidity (%) : 54.8
 Sampling Method & Place : ICARDA/2013

Report No. : HECSL/WT/036/270924/N
 Sample ID No : 270924008
 Sampling Date : 27/09/2024
 Received Date : 27/09/2024
 Commenced Date : 27/09/2024
 Completed On : 04/10/2024
 Report Date : 04/10/2024
 Sample quantity : 1 Litres

S. No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexachloro Chromate	mg/l	BLQ(LOQ 0.01)	IS 3025 Part 17: 2005

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



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Laboratory Services Division

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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Therkuvayalpet
Group : Pollution & Environment
Sample Name : Soil (AB)
Sample Mark : Project Site
Sample Reference : NA
Sample Given By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 / Humidity (%) : 51.8
Sampling Method & Plan : ICARDA-2013

DLR : TC1231824000467819
Report No. : HEC/SPT/2021/270924
Sample ID No : 270924089
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-GINS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
2	Chromium	mg/Kg	21.62	HECS-GINS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
4	Copper	mg/Kg	6.51	HECS-GINS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
6	Zinc	mg/kg	24.15	HECS-GINS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
7	Soil Texture	-	Silty Sand	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture (Sand)	%	27.2	FAO of United Nations, Rome Chapter - III 2008
9	Soil Texture (Silt)	%	62.9	FAO of United Nations, Rome Chapter - III 2008
10	Soil Texture (Clay)	%	9.9	FAO of United Nations, Rome Chapter - III 2008
11	pH Value @ 25 °C (1 : 2)	-	7.40	IS 2720 (Part 26) 1987
12	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	133.6	IS 14767: 2000



B. Annamya
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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. NIPCOIT

Address of the Client : Therkuvverapandiapuram

Group : Pollution & Environment

Sample Name : Soil (All)

Sample Mark : Project Site

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 Humidity (%) : 51.8

Sampling Method & Plan : ICARDA/2013

ULR : TC/123162400046781F

Report No. : HECSP/021/279924

Sample ID No. : 279924009

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Soil Density	gm/cc ¹	1.06	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.54	IS 2720 (Part 72) Section 1 1972
13	Organic Matter	%	0.94	IS 2720 (Part 72) Section 1 1972
14	Available Potassium	mg/100g	0.45	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(L.OQ 0.1)	HECS-GQ/09/53W/50/0011 Issue No. 01 Issue Date 02.07.2020
16	Total Nitrogen as N	%	0.0005	IS 14684 Clause 4 1999
17	Exchangeable Calcium as Ca	mg/L	10.74	FAO of United Nations, Rome Chapter - III 2008
18	Exchangeable Magnesium as Mg	mg/L	6.91	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mg/100g	4.2	IS 2720 (Part 74) Clause 5 1976
20	Water Holding capacity	%	32.8	IS 14705: 2000
21	Colour	-	Black	HECS-GQ/09/53W/50/0011 Issue No. 01 Issue Date 02.07.2020
22	Phosphorus	mg/g	BLQ(L.OQ 5.0)	FAO of United Nations, Rome Chapter -

Note: BLQ - Below the Limit of Quantification, L.OQ - Limit of Quantification, mg/L - Milligram per liter.

End of Report



D. Anurag
Lab Manager
Authorized Signatory

TEST REPORT

Page: 1 of 1

Name of the Client : M/s. SIPCOT
 Address of the Client : Thiruvattarapundrapuram
 Group : Pollution & Environment
 Sample Name : Soil (All)
 Sample Mark : Project Site
 Sample Reference : N/A
 Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
 Sample Location : N/A
 Environmental Conditions : Temperature (°C) : 28.0 Humidity (%) : 51.0
 Sampling Method & Plan : ICARDA/2013

Report No. : HECS/PE/021/270924N
 Sample ID No : 270924089
 Sampling Date : 27/09/2024
 Received Date : 27/09/2024
 Commenced Date : 27/09/2024
 Completed On : 04/10/2024
 Report Date : 04/10/2024
 Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	1.15.02	HECS-G/IN/SOP-642
2	Iron	mg/kg	4.02	Inducto method
3	Infiltration Rate	cm/hr	5.8	Inducto method
4	Moisture	%	0.52	HECS-G/IN/VA/SW/MQ/003 Inducto No. 01 Issue Date 03.07.2020

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l - Milligram per liter,
 "Level of Report"



B. Ananya
 Lab Manager
 Authorized Signatory

**TEST REPORT**

Page : 1 of 3

Name of the Client : M/s. SIPCOT
Address of the Client : Therkovvengundiyapuram
Group : Pollution & Environment
Sample Name : Soil (AI)
Sample Mark : Thattapalayam
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.8
Sampling Method & Plan : ICARDA 2013

U/LR : TC1231624000047887
Report No. : HECS/PI/012/270924
Sample ID No : 270924090
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/MS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
2	Chromium	mg/Kg	33.08	HECS-G/MS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
4	Copper	mg/Kg	9.41	HECS-G/MS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
6	Zinc	mg/Kg	12.51	HECS-G/MS/SOP/042 Issue No. 01 Issue Date: 01.03.2021
7	Soil Texture		Silty loam	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture (Sand)	%	18.2	FAO of United Nations, Rome Chapter - III 2008
9	Soil Texture (Silt)	%	41.2	FAO of United Nations, Rome Chapter - III 2008
10	Soil Texture (Clay)	%	40.6	FAO of United Nations, Rome Chapter - III 2008
11	pH Value @ 25 °C (1 : 2.5)		8.24	IS 1720 (Part 20) 1987
12	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	188.0	IS 14767: 2000



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**TEST REPORT**

Page : 2 of 3

Name of the Client : M/L SIPCOT

Address of the Client : Thekkumapandiyapuram

Group : Pollution & Environment

Sample Name : Soil (All)

Sample Mark : Thattapalai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.6 Humidity (%) : 51.8

Sampling Method & Plan : ICARDA-2013

ULM : TC121102-0000047889

Report No. : HECS/PE/012/270924

Sample ID No : 1270924090

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/vol	1.84	FAO of United Nations, Rome, 2007
12	Organic Carbon	%	0.35	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.96	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mlq/100g	5.86	FAO of United Nations, Rome Chapter - II 2008
15	Boron as B	mg/kg	80.00,00 (6.1)	HECS-GENV/SSW/SOP/011 Issue No. 01 Issue Date 02.07.2020
16	Total Nitrogen as N	%	0.013	IS 14864 Clause 4 1999
17	Exchangeable Calcium as Ca	mlq/L	6.58	FAO of United Nations, Rome Chapter - II 2008
18	Exchangeable Magnesium as Mg	mlq/L	5.92	FAO of United Nations, Rome Chapter - II 2008
19	Cation Exchange Capacity	mlq/100g	3.2	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	23.8	IS 14705: 2000
21	Colour	-	Black	HECS-GENV/SSW/SOP/011 Issue No. 01 Issue Date 02.07.2020
22	Phosphorus	PET	6.06	FAO of United Nations, Rome Chapter -

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

End of Report

D. Anusuya
Lab Manager
Authorized Signatory

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Laboratory Services Division

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TEST REPORT

Page : 1 of 1

Name of the Client	1 M/s. SDPCOT	Report No.	1 HECS/PI/022/270924/N
Address of the Client	1 Thiruvananthapuram	Sample ID No.	1 270924090
Group	1 Pollution & Environment	Sampling Date	1 27/09/2024
Sample Name	1 Soil(All)	Received Date	1 27/09/2024
Sample Mark	1 Thattapara	Commenced Date	1 27/09/2024
Sample Reference	1 NA	Completed On	1 04/10/2024
Sample Taken By	1 M/s. Hubert Enviro care Systems (P) Ltd.	Report Date	1 04/10/2024
Sample Location	1 NA	Sample quantity	1 1 kg
Environmental Conditions	1 Temperature (°C) : 28.0 1 Humidity (%) : 51.0		
Sampling Method & Plan	1 ICARDA-2013		

S.No.	Test Parameters	Units	Results	Test Method
Disruptive : Chemical				
1	Manganese	mg/kg	120.08	HECS-G/MS/SPN/042
2	Iron	mg/kg	5.62	Inductance method
3	Dissolution Rate	cm/hr	4.1	Inductance method
4	Moisture	%	5.62	HECS-G/ENV/SPN/04/001 Issue No.10 Issue Date:02.07.2020

Note:- BLQ - Below the Limit of Quantification, LLOQ- Limit of Quantification, mg/l - Milligram per liter.
End of Report



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**TEST REPORT**

Page : 1 of 3

Name of the Client : M/s. SIPCOT
Address of the Client : Therkuvetragondiyapuram
Group : Pollution & Environment
Sample Name : Soil (All)
Sample Mark : Panduravagutti
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 34.0 Humidity (%) : 51.0
Sampling Method & Place : ICARDA/2013

U/LR : TC12310240000467799
Report No. : HECS/PE/023/230924
Sample ID No : 270924001
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-GINS/SOP/002 Issue No: 01 Issue Date: 01.03.2021
2	Chromium	mg/Kg	22.61	HECS-GINS/SOP/002 Issue No: 01 Issue Date: 01.03.2021
4	Copper	mg/Kg	5.82	HECS-GINS/SOP/002 Issue No: 01 Issue Date: 01.03.2021
6	Zinc	mg/Kg	32.0	HECS-GINS/SOP/002 Issue No: 01 Issue Date: 01.03.2021
7	Soil Texture	-	Loam	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture (Sand)	%	32.3	FAO of United Nations, Rome Chapter - III 2008
9	Soil Texture (Silt)	%	40.5	FAO of United Nations, Rome Chapter - III 2008
10	Soil Texture (Clay)	%	25.2	FAO of United Nations, Rome Chapter - III 2008
11	pH Value @ 25 °C (1 : 2.5)	-	7.28	IS 1709 (Part 26) 1987
12	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	163.0	IS 14767: 2000



D. Annaya
Lab Manager
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**TEST REPORT**

Page : 2 of 3

Name of the Client : M/s. MPCOT
Address of the Client : Therkuvampudiapuram
Group : Pollution & Environment
Sample Name : Soil (A1)
Sample Mark : Pandarampatti
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.0
Sampling Method & Plan : ICARDA-2013

U/LR : TC123162400004779F
Report No. : HECS/PE/013/239924
Sample ID No : 230924091
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	g/cm ³	1.08	FAO of United Nations, Rome - 2007
12	Organic Carbon	%	0.42	IS 2720 (Part 2) Section 1 1972
13	Organic Matter	%	0.72	IS 2720 (Part 2) Section 1 1972
14	Available Phosphorus	mg/100g	7.86	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ (LOQ 0.1)	HECS-GDSN/SSW/SOP010 Issue No. 01 Issue Date: 02-07-2020
16	Total Nitrogen as N	%	0.0342	IS 14884 Clause 4 1999
17	Exchangeable Calcium as Ca	mg/L	7.54	FAO of United Nations, Rome Chapter - III 2008
18	Exchangeable Magnesium as Mg	mg/L	11.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mg/100g	5.5	IS 2720 (Part 2) Clause 5 1976
20	Water Holding capacity	%	32.8	IS 14765: 2000
21	Odour	-	Weak	HECS-GDSN/SSW/SOP011 Issue No. 01 Issue Date: 02-07-2020
22	Phosphorus	mg/L	7.42	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client	: M/s. SIPCOT	Report No.	: HECS/PE/02/M/270926N
Address of the Client	: Thiruvarepundiyapuram	Sample ID No	: 270924091
Group	: Pollution & Environment	Sampling Date	: 27/09/2024
Sample Name	: Soil/Alb	Received Date	: 27/09/2024
Sample Mark	: Pandarumpatti	Commenced Date	: 27/09/2024
Sample Reference	: NA	Completed On	: 10/10/2024
Sample Driven By	: M/s. Hubert Enviro care Systems (P) Ltd.	Report Date	: 10/10/2024
Sample Location	: NA	Sample quantity	: 1 Kg
Environmental Condition	: Temperature (°C) : 28.6 / Humidity (%) : 51.8		
Sampling Method & Plan	: ICARDA/2013		

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	120.77	HECS-G/MS/SC3/D42
2	Iron	mg/kg	BLQ(LOQ 0.00)	Inhouse method
3	Infiltration Rate	cm/hr	2.3	Inhouse method
4	Moisture	%	4.36	HECS-G/ENV/SSW/SOP003 Iron No. 01 Issue Date: 02.01. 2020

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



D. Ananya
Lab Manager
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**TEST REPORT**

Page: 1 of 3

Name of the Client : M/s. SIPCOT
Address of the Client : Therkuvapandiapuram
Group : Pollution & Environment
Sample Name : Soil/Ally
Sample Mark : Padur pandiyapuram
Sample Reference : NA
Sample Taken By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

U/LR : TC12345678901234567890
Report No : HECS/PE/034/270924
Sample ID No : 270924082
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 04/10/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Calcium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/042 Issue No: 01 Issue Date: 01.03.2021
2	Chromium	mg/Kg	20.85	HECS-G/INS/SOP/042 Issue No: 01 Issue Date: 01.03.2021
4	Copper	mg/Kg	0.62	HECS-G/INS/SOP/042 Issue No: 01 Issue Date: 01.03.2021
6	Zinc	mg/kg	11.17	HECS-G/INS/SOP/042 Issue No: 01 Issue Date: 01.03.2021
7	Soil Texture		Clay	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture (Sand)	%	33.4	FAO of United Nations, Rome Chapter - III 2008
9	Soil Texture (Silt)	%	25.7	FAO of United Nations, Rome Chapter - III 2008
10	Soil Texture (Clay)	%	40.9	FAO of United Nations, Rome Chapter - III 2008
11	pH Value @ 25 °C (1 : 2.5)	-	7.24	IS 1552 (Part 20) 1987
12	Electrical conductivity @ 25 °C (1 : 25)	µS/cm	362.0	IS 14767: 2000



B. Ananya
Lab Manager
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**TEST REPORT**

Page : 2 of 3

Name of the Client : M/s. SHPCOT

Address of the Client : Therkuvengudiyanuram

Group : Pollution & Environmental

Sample Name : SubRAM

Sample Mark : Padar jandiyapuram

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.8 ; Humidity (%) : 51.8

Sampling Method & Plan : ICARDA/2013

ILR : TC1231024000046778F

Report No. : HECS/PE/024/279924

Sample ID No : 1279924082

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 04/10/2024

Report Date : 04/10/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.08	FAO of United Nations Rome - 2007
12	Organic Carbon	%	0.75	IS 2720 (Part 2) Section 1 1972
13	Organic Matter	%	1.30	IS 2720 (Part 2) Section 1 1972
14	Available Potassium	mlg/100g	7.00	FAO of United Nations, Rome Chapter - III 2006
15	Biomass N	mg/kg	BL.QQ.0Q.0.1	HECS-GSDV/SSW/SOP/011 Issue No. 01 Issue Date: 03.07.2020
16	Total Nitrogen as N	%	0.0002	IS 14854 Chapter 4 : 1999
17	Exchangeable Calcium as Ca	mlg/L	7.80	FAO of United Nations, Rome Chapter - III 2006
18	Exchangeable Magnesium as Mg	mlg/L	5.70	FAO of United Nations, Rome Chapter - III 2006
19	Cation Exchange Capacity	mlg/100g	3.3	IS 2720 (Part 2) Clause 3 1970
20	Water Holding capacity	%	33.2	IS 14765 : 2000
21	Colour	-	Black	HECS-GSDV/SSW/SOP/011 Issue No. 01 Issue Date: 03.07.2020
22	Phosphorus	mg/L	12.48	FAO of United Nations, Rome Chapter -

Note: BL.Q - Below the Limit of Quantification, L.QQ - Limit of Quantification, mg/L - Milligram per liter.
 Test of Report



D. Annaya
Lab Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
 Address of the Client : Therkuvaregandiyapuram
 Group : Pollution & Environment
 Sample Name : Soil (A0)
 Sample Mark : Pedur gandiyapuram
 Sample Reference : NA
 Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
 Sample Location : NA
 Environmental Condition : Temperature (°C) : 24.6 Humidity (%) : 51.6
 Sampling Method & Plan : ICA BDA:2013

Report No. : HECS/PE/024/2709240N
 Sample ID No : 270924092
 Sampling Date : 27/09/2024
 Received Date : 27/09/2024
 Commenced Date : 27/09/2024
 Completed Date : 04/10/2024
 Report Date : 04/10/2024
 Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	127.62	HECS-G/MS/SCRY/002
2	Iron	mg/kg	3.98	Isotopic method
3	Infiltration Rate	mm/hr	7.4	Isotopic method
4	Moisture	%	7.98	HECS-G/ENV/SUB/SOP/003 Issue No.50 Issue Date:12.05.2020

Note:- RLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg - Milligrams per kg.
 End of Report



D. Annanya
 Lab Manager
 Authorized Signatory

**TEST REPORT**

Page : 1 of 3

Name of the Client : M/s. SRP COY
Address of the Client : Therkuvaregundiyapuram
Group : Pollution & Environment
Sample Name : Soil (All)
Sample Mark : Therkuvaregundiyapuram
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro-care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.8
Sampling Method & Plan : ICARDA:2013

U/LR : TC1231804000046777F
Report No : HECS/P/025/270924
Sample ID No : 270924095
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 04/10/2024
Report Date : 10/10/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Disruptive : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ-0.1)	HECS-G/INS/SOP/042 Issue No. 01 Issue Date:01.05.2021
2	Chromium	mg/Kg	24.80	HECS-G/INS/SOP/042 Issue No. 01 Issue Date:01.05.2021
4	Copper	mg/Kg	6.32	HECS-G/INS/SOP/042 Issue No. 01 Issue Date:01.05.2021
6	Zinc	mg/Kg	21.88	HECS-G/INS/SOP/042 Issue No. 01 Issue Date:01.05.2021
7	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture (Sand)	%	30.5	FAO of United Nations, Rome Chapter - III 2008
9	Soil Texture (Silt)	%	54.4	FAO of United Nations, Rome Chapter - III 2008
10	Soil Texture (Clay)	%	15.4	FAO of United Nations, Rome Chapter - III 2008
11	pH Value @ 25 °C (1 : 2)	-	7.36	IS 1720 (Part 2): 1987
12	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	190.0	IS 14767: 2010



D. Anusuya
Lab Manager
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**TEST REPORT**

Page: 2 of 3

Name of the Client : M/s. SIPCOT
Address of the Client : Therkuvayyandiyapuram
Group : Pollution & Environment
Sample Name : Soil (All)
Sample Mark : Therkuvayyandiyapuram
Sample Reference : NA
Sample Deploy By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.8
Sampling Method & Plan : ICARDA-2013

U/LR : TCL211024000046777F
Report No : HECN/PE/025/270924
Sample ID No : 1270924995
Sampling Date : 27/09/2024
Received Date : 27/09/2024
Commenced Date : 27/09/2024
Completed On : 18/10/2024
Report Date : 18/10/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cc	1.02	FAO of United Nations, Rome 2007
12	Organic Carbon	%	0.08	IS 2720 (Part 22) Section 1 (1972)
13	Organic Matter	%	1.18	IS 2720 (Part 22) Section 1 (1972)
14	Available Phosphorus	mg/100g	18.54	FAO of United Nations, Rome Chapter - III 2008
15	Bromine as B	mg/kg	BLQ (LOQ 0.1)	HECS-GDSV/SVR/SOP/011 Issue No. 01 Issue Date: 02-07-2020
16	Total Nitrogen as N	%	0.0130	IS 14884 Class 4 1999
17	Exchangeable Calcium as Ca	mg/L	7.68	FAO of United Nations, Rome Chapter - III 2008
18	Exchangeable Magnesium as Mg	mg/L	6.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mg/100g	5.3	IS 2720 (Part 24) Class 5 1976
20	Water Holding capacity	%	16.4	IS 14265: 2000
21	Colour	-	Black	HECS-GDSV/SVR/SOP/011 Issue No. 01 Issue Date: 02-07-2020
22	Phosphorus	ppb	6.12	FAO of United Nations, Rome Chapter - III 2008

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/L - Milligramme per Liter,
"Cost of Report"



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Laboratory Services Division

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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. SRPCOT
Address of the Client : Therkuvayandiyapuram
Group : Pollution & Environment
Sample Name : Soil (All)
Sample Mark : Therkuvayandiyapuram
Sample Reference : NA
Sample Taken By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 Humidity (%) : 51.8
Sampling Method & Plan : ICARDA:2013

Report No. : HECG/P/2015/270924/N
Sample ID No : 270924093
Sampling Date : 27/09/2014
Received Date : 27/09/2014
Commenced Date : 27/09/2014
Completed On : 04/10/2014
Report Date : 04/10/2014
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	152.03	HECS-G/095/SUBV/042
2	Iron	mg/kg	4.72	Inducto method
3	Acidification Rate	cm/hr	6.0	Inducto method
4	Moisture	%	3.36	HECS-G/036V/03W/SOP/003 Inducto No. 01 Issue Date: 01.01.2009

Note:- BLQ : Below the Limit of Quantification, LOQ: Limit of Quantification, mg/kg - Milligram per liter.
End of Report



D. Anusuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Therkoverrapandyapuram

Group : Atmospheric Pollution

Sample Name : Ambient Noise Levels (Excluding vibration) (Eas)

Sample Mark : Noise

Sample Refractor : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.8 Humidity (%) : 56.0

Sampling Method & Plan : IS 9995:1991

U.N. : TC1231024000646513F

Report No. : HECS/AP/02/270924

Sample ID No. : 270924078

Sampling Date : 27/09/2024

Received Date : 27/09/2024

Commenced Date : 27/09/2024

Completed On : 30/09/2024

Report Date : 05/10/2024

Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	52.5	40.7
2	Therapuri	50.1	49.3
3	Puduchampuri	51.8	42.8
4	Public Food exposure	55.2	43.9
5	Therka Veenrapandyapuram	51.3	48.2

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. Anusaya
Lab Manager
Authorized Signatory

SIPCOT – THERKUVEERAPANDIYAPURAM MONITORING PHOTOS

AMBIENT AIR QUALITY MONITORING PHOTOS:



Near project site



Thattapparai



Pandarampatti



Pudurpandiyapuram



Therkuveerapandiyapuram

Ground water sampling photos



Near Project area



Pandarampatti



Thattaparai

Surface water sampling photograph



Thattaparai Lake



Pudur pandiyapuram Pond

Soil sampling photograph



Project area



Thattappurai



Pudur pandiyapuram



Pandarampatti



Therkuveerapandiyapuram

Noise monitoring photograph



Project area



Thuttapparai



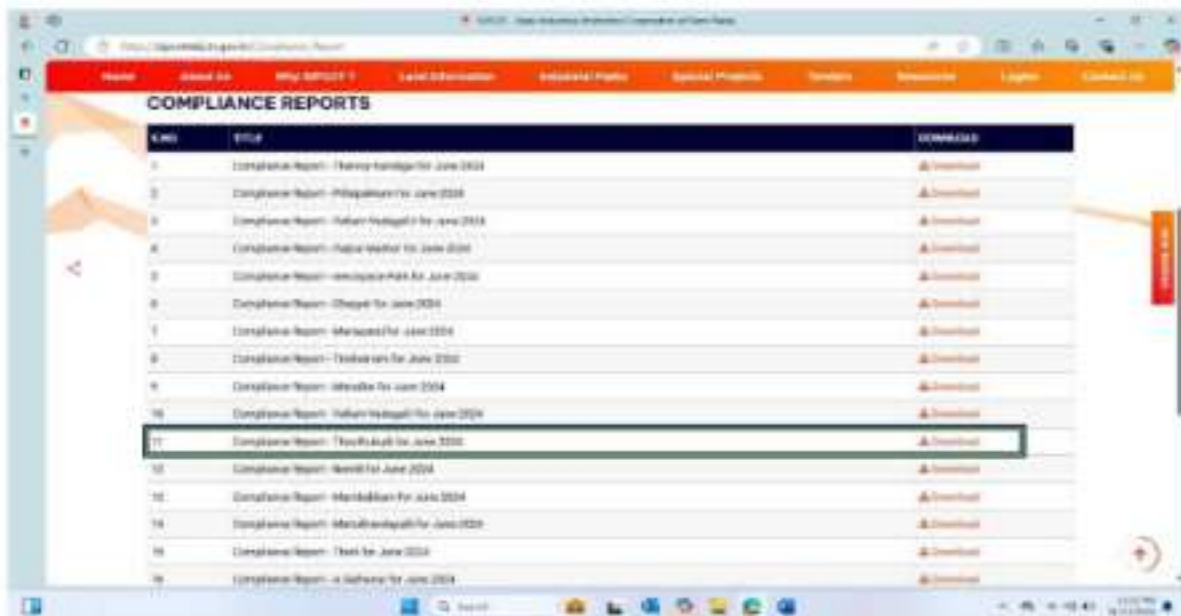
Pandarampatti



Pudurpandiyapuram



Therkuvceerapandiyapuram



COMPLIANCE REPORTS

SLNO	TITLE	DOWNLOAD
1	Compliance Report- Therapeutic Goods for June 2024	Download
2	Compliance Report- Pharmaceuticals for June 2024	Download
3	Compliance Report- Public Health for June 2024	Download
4	Compliance Report- Public Health for June 2024	Download
5	Compliance Report- Veterinary for June 2024	Download
6	Compliance Report- Drugs for June 2024	Download
7	Compliance Report- Medicines for June 2024	Download
8	Compliance Report- Vaccines for June 2024	Download
9	Compliance Report- Herbal for June 2024	Download
10	Compliance Report- Public Health for June 2024	Download
11	Compliance Report- Therapeutic Goods for June 2024	Download
12	Compliance Report- Drugs for June 2024	Download
13	Compliance Report- Medicines for June 2024	Download
14	Compliance Report- Herbal for June 2024	Download
15	Compliance Report- Therapeutic Goods for June 2024	Download
16	Compliance Report- Drugs for June 2024	Download

P-IV/EC/I/179105/2024/TU

Date: 30.09.2024

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

10/09/2024

Sir,

Sub: SIPCOT Industrial Park, Thoothukudi - Environmental Statement for the
Financial Year ending 31st March 2024 - Submitted - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 7939/EC/8(b)/796/2022 dated 02.02.2022.

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

Yours faithfully,
Sd/-

MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/



ASSISTANT GENERAL MANAGER (P-IV)

SP,
FC completed.
o/c
del
24/09/24