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1924 - 2023

SIPCOT

EC/Vaniamallee/HYC/June/2025 Date: 30.05.2025

To,
The Member Secretary,
State Level Environment Impact Assessment Authority,
Chennai Metro Rail Limited (Head office),
No.327, Anna Salai, Nandanam,
Chennai - 600 035.

Sir/Madam,

Sub: SIPCOT Industrial Park at Vaniamallee – Submission of Half Yearly Compliance Report for June 2025 (i.e., for the period of October 2024 to March 2025) - Reg.

Ref: EC vide Identification No. EC24B3813TN5100474N, File No. 9263 dated:22.04.2024

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We hereby submit the Half Yearly Compliance Report for the Development of Industrial Park at Vaniamallee and Soorapoondi Villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu for June 2025 (i.e., for the period of October 2024 to March 2025) along with the supporting documents for your perusal.

Thanking you

Yours faithfully,

CONSULTANT (PROJECT MANAGEMENT)

Encl: As above.

Copy to:

1. The Director,
   The Ministry of Environment and Forest & Climate Change,
   Integrated Regional Office,
   1st Floor, Additional Office Block for GPOA,
   Shastri Bhawan, Haddows Road,
   Nungambakkam, Chennai – 600 006.

2. The Director,
   CPCB Zonal Office,
   77-A, South Avenue Road,
   Ambattur Industrial Estate,
   Ambattur Taluk, Thiruvallur District,
   Chennai - 600 058.

P.T.O.

3. The Chairman,
   Tamil Nadu Pollution Control Board,
   No-76, Mount Road, Guindy,
   Chennai-600 032.

4. The Project Officer
   SIPCOT Industrial Park,
   Manallur.

HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of October 2024- March 2025

For

"Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu" over an extent of 215.834 Ha (533.11 Acres)

EC obtained vide Letter No. SEIAA-TN/F.No. 9263/2024 dated: 22/04/2024

Submitted by

M/s. STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LTD,

19/A, Rukmani Lakshmipathy Road,

Egmore, Chennai-600008.

Prepared by

HUBERT ENVIRO CARE SYSTEMS (P) LTD
CHENNAI
(ENVIRONMENTAL CONSULTANT)

May 2025

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1.0 PROJECT DETAILS

<table>
<tr><td>Name of the Project</td><td>Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu" over an extent of 215.834 Ha (533.11 Acres)</td></tr>
<tr><td>Name of the Proponent</td><td>M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)</td></tr>
<tr><td>Location</td><td>Soorapoondi and Vaniamallee villages Gummidipoondi Taluk, Thiruvallur District and Tamil Nadu state.</td></tr>
<tr><td>EC No.</td><td>
<table>
<tr><td>(i)</td><td>EC Identification No.</td><td>:</td><td>EC24B3813TN5100474N</td></tr>
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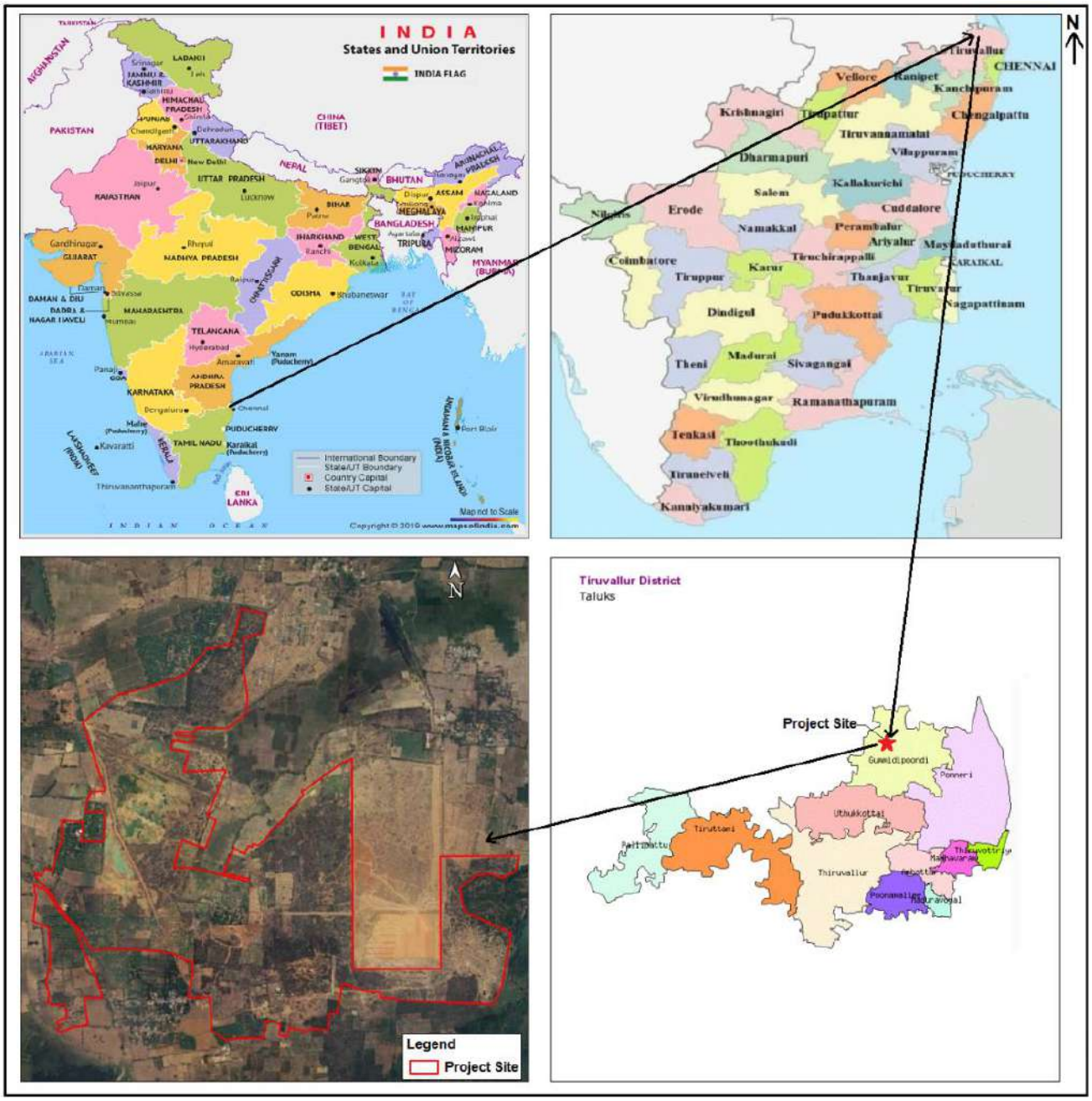
Enclosed as Annexure 1
</td></tr>
<tr><td>Area Details</td><td>215.834 Ha</td></tr>
</table>

Water Requirement	4789 KLD Fresh water: 874 KLD, TTRO water: 2133 KLD and Recycled water: 1782 KLD. Water: Fresh &TTRO water from CMWSSB. Letter enclosed as **Annexure 5**
Project Cost	INR. 495.52 crores

2.0 LOCATION MAP



3.0 SITE PHOTOGRAPHS

4.0 SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT (October 2024 – March 2025)

Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centers)

1. SEAC Conditions - Site Specific

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.1		
1.	The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.	**Condition noted**.
3.	PP shall submit the commitment letter from the local body for supply of fresh water.	**Condition will be complied.** Water Supply letter from CMWSSB is enclosed as **Annexure-5**.
4	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.	**Condition noted**. SIPCOT will provide STP only for treating sewage from Industrial Housing Facility. All the member industries will be mandated to provide STP to achieve the standards prescribed by the TNPCB/CPCB.
5	The proponent must protect 5 numbers of Ficus trees existing in the site by constructing stone wall fencing around each tree.	**Condition will be complied**.
6	STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.	**Condition noted**. SIPCOT will provide STP only for treating sewage from Industrial Housing Facility and operated on BOOT basis.
7	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. The PP shall construct a pond of	**Condition will be complied.**

	appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.	
8.	Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.	**Condition will be complied.**
9.	Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).	**Condition will be complied.**
10.	The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.	**Condition Noted.**
11.	The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.	**Condition will be complied**.
12.	Project proponent should invest the CSR amount as per the proposal and submit the	**Condition Noted.** .

	compliance report regularly to the concerned authority/Directorate of environment.	
13.	Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.	**Condition is being complied.**
14	Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.	**Condition Noted.**
15	The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.	**Condition noted.** All the member units will comply with.
16	The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.	**Condition noted**.

2. SEIAA Specific Conditions:

2.1		
1.	The PP shall ensure that the proposed activities in no way result any impact on the migratory birds.	**Condition noted**.
2.	The PP shall ensure that the proposed activity in no way result any impact on the surrounding Agriculture.	**Condition noted**.
3.	The proponent shall ensure that the buildings should not cause any damage to water Table	**Condition noted**.

	& natural drainage	
4.	The proponent shall take necessary action to reduce anthropogenic GHGs such as CO2, CH4, nitrous oxide, etc., and temperature rise resulting from human activities.	**Condition noted**.

3. SEIAA Standard Conditions:

3.1		
Climate Change		
1.	The proponent shall adopt strategies to decarbonize the building.	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
2.	The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
3.	The proponent shall adopt strategies to reduce temperature including the Building Facade.	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
4.	The proponent shall adopt methodology to control thermal environment and other shocks in the building.	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
5.	The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation.	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply

		systems, development of green spaces, etc.
6.	The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands.	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
7.	The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
8.	The activities should in no way cause emission and build-up Green House Gases. All actions to be eco-friendly and support sustainable management of the natural resources within and outside the campus premises.	**Condition noted**.
9.	The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building	**Condition noted**. It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
Health		
10.	The proponent shall adopt strategies to maintain the health of the inhabitants.	**Condition noted**.
Energy		
11.	The proponent shall adopt strategies to reduce electricity demand and consumption.	**Condition noted.** All the member units will comply with
12.	The proponent shall provide provisions for automated energy efficiency.	**Condition noted** .
13.	The proponent shall provide provisions for controlled ventilation and lighting	**Condition noted.** All member units will comply with

	systems.	
14.	The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed.	**Condition noted.** All member units will comply with
15.	All the construction of Buildings shall be energy efficient and conform to the green building norms. The PP shall ensure that carbon neutral building.	**Condition noted.** All the member units will be instructed to follow all applicable rules and guidelines.
16.	The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so as to ensure continuous and efficient operation. Regulatory Frameworks	**Condition noted.** All the member units will be mandated to comply with
17.	The proponent shall adopt methodologies to effectively implement the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.	**Condition noted**. All the member units will be instructed to follow all applicable rules and guidelines.
18.	The project proponent shall ensure to provide adequate elevated closed area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic	**Condition noted**. All the member units will be instructed to follow all applicable rules and guidelines.

	Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.	
19.	The proponent shall provide elevator as per rules CMDA/DTCP. Database maintenance & audits	**Not applicable.** It is an infrastructure development project that includes the construction of roads, storm water drainage systems, street lighting, water supply systems, development of green spaces, etc.
Database maintenance & audits		
20.	The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format.	**Condition noted**.
21.	The proponent should maintain environmental audits to measure and mitigate environmental concerns.	**Condition noted.**
Biodiversity		
22.	There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc,	**Condition noted**.
23.	The proponent shall ensure that the proposed activities in no way result in the spread of invasive species.	**Condition noted**. All the member units will comply with
24.	The proponent shall adopt sustainability criteria to protect the micro environment	**Condition noted**. All the member units will comply with

	from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.	
25.	The proponent shall ensure almost safety for the existing biodiversity, trees, flora & fauna shall not disturb under any circumstances.	**Condition noted**.
26.	The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms.	**Condition Noted.** All the member units will comply with
27.	The proponent shall adopt strategies to prevent bird hits.	**Condition noted**.
Safety measures		
28.	The proponent should develop an emergency response plan in addition to the disaster management plan.	**Condition noted.** Emergency Response Plan and Disaster Management Plan is enclosed as **annexure-11.**
29.	The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan in emergencies.	**Condition will be complied**. All the member units will have own Emergency evacuation plan
30.	All bio-safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP.	**Condition noted**. All the member units will be Mandated to follow applicable rules and guidelines
31.	The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities.	**Condition noted**. All the member units will be instructed to follow applicable rules and guidelines.
32.	The proponent shall provide the emergency exit in the buildings.	**Condition noted**. All the member units will be mandated to follow applicable rules and guidelines
33.	The proponent shall adhere to the	**Condition noted**.

	provision and norms regard to fire safety prescribed by competent authority	
Water/Sewage		
34.	The proponent shall ensure that no treated or untreated sewage shall be let outside the project site & shall find access to nearby water-bodies under any circumstances other than the permitted mode of disposal.	**Condition will be complied.** All the member units will be mandated to have STP/ETP for treatment of sewage/effluent and to reuse the treated water within their premises
35.	The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time.	**Condition will be complied.** All the member industries will be mandated to have their own STP for treatment of wastewater and to reuse the treated water as per the norms.
36.	The proponent shall periodically test the treated sewage the through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB.	**Condition noted.** All the member units will be mandated to have STP/ETP for treatment of sewage/effluent and to reuse the treated water within their premises
37.	The proponent shall periodically test the water sample for the general water quality core parameters including fecal coliform within the proposed project site through TNPCB lab /NABL accredited laboratory and submit report to the concerned authorities.	**Condition noted**. Water quality monitoring report is enclosed as **annexure 4.**
38.	The proponent shall ensure that provision should be given for proper utilization of recycled water.	**Condition noted**. All the member units will be mandated to have STP/ETP for treatment of sewage/effluent and to reuse the treated water within their premises
39.	The project proponent shall adhere to storm water management plan as	**Condition will be complied.**

	committed.	
Parking		
40.	The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed.	**Condition will be complied.**
Solid waste Management		
41.	The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time.	**Condition noted**. All the member units will be mandated to comply Solid waste management Rules 2016
42.	The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.	**Condition noted**. We SIPCOT mandated the member industries that the single use plastics is banned within the project premises.
EMP		
43.	The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.	**Condition noted**.
44.	The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB.	**Condition noted**.
45.	The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP. Also, the proponent shall explore possibilities to provide sufficient grass lawns.	**Condition Noted.**
Others		
46.	As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the	**Condition noted**.

	proposed activity including withdrawal of EC and stoppage of work.	
47.	The project proponent shall adhere to height of the buildings as committed.	**Condition noted**.

Standard EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Statutory Compliance		
S. No	**EC CONDITIONS**	**STATUS OF COMPLIANCE**
1.1	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	**Condition noted.** Construction shall be done in accordance with the layout approval obtained
1.2	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.	**Condition noted.** All the member units will be mandated to follow applicable rules and guidelines
1.3	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	**Not applicable.** The proposed project does not involve diversion of forest land.
1.4	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	**Condition Complied.** NBWL recommended for the project.
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control	**Condition will be complied.** All the member units will be instructed to obtain all necessary statutory clearances and

	of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	approvals Consent to Establish application Copy is enclosed as **Annexure 3.**
1.6	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	**Condition will be complied.**
1.7	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.	**Condition noted.** All the member units will be mandated to follow applicable rules and guidelines.
1.8	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.	**Condition noted**. All the member units will be mandated to follow applicable rules and guidelines.
1.9	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	**Condition noted.** All the member units will be mandated to follow applicable rules and guidelines.
2. Air Quality Monitoring And Preservation		
2.1	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	**Condition noted.**
2.2	A management plan shall be drawn up	Individual industries will be instructed to

	and implemented to contain the current exceedance in ambient air quality at the site.	comply with their statutory approvals / clearances. Ambient Air Monitoring Reports are enclosed as **Annexure - 4**
2.3	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.	Individual industries will be instructed to comply with their statutory approvals / clearances. Ambient Air Monitoring Reports are enclosed as **Annexure - 4.**
2.4	Diesel power generating sets proposed as source of backup power 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. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	**Condition noted**. All the member units will be mandated to follow applicable rules and guidelines.
2.5	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution	**Condition noted.** All the member units will comply with

	at the site as well as taking out debris from the site.	
2.6	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	**Condition noted**. All the member units will comply with
2.7	Wet jet shall be provided for grinding and stone cutting.	**Condition noted**. All the member units will comply with
2.8	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	**Condition noted**
2.9	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.	**Condition noted**. All the member units will be mandated to follow applicable rules and guidelines.
2.10	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.	**Condition will be complied.** All the member industries will have their own power backup.
2.11	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB)	**Condition noted.** All the member units will provide adequate stack height and acoustic enclosures for DG set. Noise Monitoring Reports are enclosed as **Annexure -4 .**

	norms.	
2.12	For indoor air quality the ventilation provisions as per National Building Code of India.	**Condition noted.** All the member units will comply with
3. Water Quality Monitoring And Preservation		
3.1	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	**Condition noted.** All the member units will comply with
3.2	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	**Condition noted** All the member units will comply with
3.3	Total fresh water use shall not exceed the proposed requirement as provided in the project details.	**Condition will be complied.** All the member units will comply with
3.4	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	**Condition noted** At present, no construction activity has been initiated at the project site.
3.5	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water	**Condition noted.**

	already committed, the quantity of water allotted to the project under consideration and the balance water available.	
3.6	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.
3.7	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	**Condition noted.** All the member industries will comply with
3.8	Use of water saving devices/fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.	**Condition noted.** All the member industries will comply with
3.9	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	**Condition noted**.
3.10	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	**Condition noted.** All the member industries will comply with
3.11	The local bye-law provisions on rain water harvesting should be followed. If	**Condition noted.** All the member units will be instructed to

	local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.	follow applicable rules and guidelines.
3.12	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse.	**Condition noted.**
3.13	All recharge should be limited to shallow aquifer.	**Condition noted**
3.14	No ground water shall be used during construction phase of the project.	**Condition noted.**
3.15	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.	**Condition will be complied.** SIPCOT will provide STP only for treating sewage from Industrial Housing and all the member industries will be mandated to provide STP to reuse the treated sewage for green belt development.
3.16	No sewage or untreated effluent water would be discharged through storm water drains.	**Condition noted.** All member units will comply with
3.17	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage	**Condition will be complied.** SIPCOT will provide STP only for treating sewage from Industrial Housing and all the

	Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.	member industries will be mandated to provide STP to reuse the treated sewage for green belt development.
3.18	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	**Condition noted.** All member units will comply with.
3.19	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.
4. Noise Monitoring And Prevention		
4.1	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction	**Condition Noted.** Ambient Noise quality monitoring report is enclosed as **annexure 4**

	phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.	
4.2	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	**Condition is being complied.** Noise level survey is carried as per the prescribed guidelines and report in this regard are submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. Noise quality monitoring report is enclosed as **Annexure 4**
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	**Condition noted**. All the member units will be instructed to follow applicable rules and guidelines.
5. Energy Conservation Measures		
5.1	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.	**Condition noted**.
5.2	Outdoor and common area lighting shall be LED.	**Condition will be complied.**
5.3	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting	**Condition will be complied.** All the member units will be instructed to follow applicable rules and guidelines.

	design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.	
5.4	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	**Condition noted.**
6. Waste Management		
6.1	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.
6.2	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	**Condition noted**.
6.3	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.
6.4	Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.

6.5	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.
6.6	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.
6.7	Fly ash 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 25th January, 2016. Ready mixed concrete must be used in building construction.	**Condition noted.** All the member units will be instructed to follow applicable rules and guidelines.
6.8	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	Condition noted. All the member units will be instructed to follow applicable rules and guidelines.
6.9	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.	Condition noted. All the member units will be instructed to follow applicable rules and guidelines.
7. Green Cover		
7.1	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be	**Condition will be complied**

	retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	
7.2	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.	**Condition noted.**
7.3	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.	**Condition noted.**
7.4	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	**Condition noted.**
8. Transport		
8.1	A comprehensive mobility plan, as per MoUD best practices guidelines	**Condition noted.**

	(URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.	
8.2	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.	**Condition will be complied.** Air and noise quality monitoring report is enclosed as **Annexure- 4**
9.		
9.1	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State	**Condition noted.** All the member units shall comply with.

	Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	
10. Human Health Issues		
10.1	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	**Condition will be complied.**
10.2	For indoor air quality the ventilation provisions as per National Building Code of India.	**Condition noted.** All the member units shall comply with.
10.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	**Condition noted.** All the member units shall comply with.
10.4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	**Condition noted.** All the member units shall comply with.
10.5	Occupational health surveillance of the workers shall be done on a regular basis.	Condition noted. All the member units shall comply with.
10.6	A First Aid Room shall be provided in the project both during construction and	**Condition noted.** All the member units shall comply with.

	operations of the project.	
11. Miscellaneous		
11.1	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.	**Condition complied.** Newspaper advertisement copy is enclosed as **Annexure- 2** Screenshot of uploaded EC details copy our website is enclosed as **Annexure- 9**
11.2	ii. Environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	**Condition complied.** Acknowledgement copy from local bodies regarding submission of clearance letter is enclosed as **Annexure –7**
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	**Condition is being complied.** We SIPCOT uploaded the status of compliance of the stipulated environment clearance conditions along with monitoring data in our website The screenshot of uploaded Half Yearly compliance report in our website is enclosed as **Annexure-10.**
11.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	**Condition is being complied.** We SIPCOT submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the MoEF&CC at environmental clearance portal and the same is enclosed as **annexure- 10** .

11.5	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	**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 – 8.**
11.6	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	**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 - 8.**
11.7	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for	**Condition noted.**

	environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report	
11.8	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	**Condition will be complied.**
11.9	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	**Condition Noted.**
11.10	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	**Condition noted**
11.11	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Expert Appraisal Committee.	**Condition noted**.
11.12	No further expansion or modifications in the plant shall be carried out without	**Condition noted**.

	prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC)/SEIAA-TN.	
11.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	**Condition noted**
11.14	The Ministry/SEIAA-TN may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	**Condition noted**
11.15	The Ministry/SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	**Condition noted**
11.16	The Regional Office of this Ministry 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 will be complied.**
11.17	The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary	**Condition will be complied.** At present, no construction activity has been initiated at the project site. CTE application copy is enclosed as **annexure -3**

	Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	
11.18	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	**Condition noted**.
12	Specific Condition	
12.1	The project proponent shall develop R& D facilities to develop their own technologies for propylene and polypropylene processing.	**Condition noted.**

5.0 ENVIRONMENTAL MONITORING DETAILS

It is mandatory to submit Six Monthly Compliance Report (Half Yearly Compliance) to MoEF & CC Regional Office by the proponent. For the purpose of submitting Six-Monthly Compliance report, environmental monitoring was carried out at site by M/s. Hubert Enviro Care Systems Pvt. Ltd. an NABL Accredited Laboratory during the period of **October 2024- March 2025.**

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. The test report of ambient air quality for the period of **October 2024- March 2025** is enclosed as **Annexure - 4.**

5.2 Ambient Noise level monitoring

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of **October 2024- March 2025** is enclosed as **Annexure - 4.**

5.3 Soil quality monitoring

Soil samples were collected and analyzed for nutrients and heavy metals. The test report of soil samples collected and analyzed during the period of **October 2024- March 2025** is enclosed as **Annexure - 4.**

5.4 Ground water quality monitoring

Ground water was tested for various water quality parameters during the period of **October 2024- March 2025.** The test report of bore well water collected and analyzed is enclosed as **Annexure- 4.**

5.5 Surface water quality monitoring

The surface water was collected and tested for various water quality parameters during the period of **October 2024- March 2025.**The test report of surface water collected and analyzed is enclosed as **Annexure 4**.

Environmental Monitoring Photographs are enclosed as **Annexure-6**

6.0 CONCLUSION

1. The environmental monitoring was carried out at site during the period of **October 2024-March 2025**
2. All the conditions stipulated in Environmental Clearance are being complied/ will be complied.

Name: Dr. Rajkumar Samuel
Designation: Director Technical
Company Name: Hubert Enviro Care Systems Private Limited

सत्यमेव जयते

File No: 9263
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)
***

Date **22/04/2024**

To,

Managing Director
STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
19-A, Rukmani Lakshmipathy Road, Egmore, Chennai , Egmore, CHENNAI, TAMIL NADU, Egmore, 600008
md@sipcot.in

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application for Proposed Development of Industrial Park with Industrial Housing Facility over an extent of 215.834 Ha (533.11 Acres) at Soorapoondi Village S.F.Nos. 65/1, 181, 182, 183, 184, 185, 186, 187, 188, 189/1, 190, 192, 213pt, 214pt, 215, 216, 217, 218pt, 219pt, 220pt, 221pt, 227/1pt, 227/2pt, 227/3pt, 228/1pt, 228/2pt, 228/3pt, 235pt & Vaniamallee Village S.Nos. 31/1, 31/2, 31/3, 31/4, 31/5, 31/6, 36, 38/1, 41/3, 41/4, 41/12, 41/20, 142/1, 175/2, 175/3, 175/4, 176/1, 176/2, 176/3, 177, 178/1, 179, 180/1, 180/2, 180/3, 180/4, 180/5, 180/6, 181/1, 181/2, 181/3, 181/4, 182, 183, 184, 185, 188/2, 188/3, 188/4, 188/5, 189/1, 189/2, 189/3, 189/4, 197/2, 198/1, 199, 200, 201, 202, 203/1, 204/10, 205/2, 206, 207/1, 207/2, 207/3, 207/4, 207/5, 207/6, 207/7, 207/8, 207/9, 208/1, 208/2, 208/3, 208/4, 208/5, 208/6, 209, 210, 211, 212, 213pt, 214pt, 215, 216, 217/1, 218pt, 219pt, 221pt, 222pt, 223pt, 225pt, 226pt, 228/1 of Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT) submitted to SEIAA-TN vide proposal number SIA/TN/INFRA2/463400/2024 dated 23/02/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

Ref:

1. ToR issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.9263/SEAC/ToR-1213/2022 dated:14.07.2022
2. ToR amendment issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.9263/SEAC/ToR-1213/2022/Amendment/2023 dated:06.11.2023
3. Online Proposal No. SIA/TN/INFRA2/463400/2024, dated 20.02.2024 for EC
4. EIA report submitted dated: 21.02.2024

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B3813TN5100474N
(ii) File No.	9263
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	8(b) Townships/ Area Development Projects / Rehabilitation Centres
(vii) Name of Project	Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu
(viii) Name of Company/Organization	STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(ix) Location of Project (District, State)	THIRUVALLUR, TAMIL NADU
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact AssessmentAuthority(SEIAA) under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 01/04/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
5. The SEAC, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc., & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.
6. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEAC hereby accords Environment Clearance for the instant proposal to Mr. Raam Mohan K under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2)
7. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
8. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
9. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
10. Validity of EC is for a period of 7 years from the date of issue of EC. In case the project proponent fails to complete the construction/proposed activities within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment
11. **Salient features of the proposal are as follows:**

S. No	Description	Details
1.	Name of the Project	“Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu” over an extent of 215.834 Ha (533.11 Acres) by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT).

2.	Location	Soorapoondi and Vaniamallee villages Gummidipoondi Taluk, Thiruvallur District and Tamil Nadu state.
3.	Type of Project	Category – 8(b)
4.	Latitude & Longitude	13°25'24.17"N, 80° 2'12.45"E
5.	Total Plot Area (in sq. m)	215.834 Ha (533.11 Acres)
6.	Brief description of the project	The Environmental Clearance is sought for "Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu" over an extent of 215.834 Ha (533.11 Acres) by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)
7.	Built up area details	Not applicable – It is infrastructure development project
8.	Maximum height of the project	18.2
9.	Maximum number of floors	Industrial park - based on industrial units Industrial Housing – G+4
10.	No. of blocks	Industrial park - based on industrial units Industrial Housing – 4 towers
11.	Permissible FSI area	-
12.	Proposed FSI area	-
13.	Cost of Project	INR. 495.52 crores
14.	No. of Saleable Units	Not applicable. Total developable area is 533.11 Acres (215.834 Ha) which includes Industrial plot area, Industrial Housing, Other Common facilities, Greenbelt, SWM, Road, Storm Water Drain, OSR and such other infrastructure facilities.
15.	Expected Population	**Construction phase** - 100 Nos. **Operation phase** – 10,800 Nos (including 1,920 Nos for industrial housing during operation phase)
16.	a) Water requirement (in KLD)	4789 KLD (Fresh water: 874 KLD, TTRO water: 2133 KLD and Recycled water: 1782 KLD)
17.	b) Source	Source: a. Fresh water - Letter from TWAD for the supply of 10 MLD raw water supply from SIPCOT Industrial Park at Thervoykandigai vide Letter no. CMWSSB/WT&T/RO-II/SIPCOT-Manallur dated: 03.02.2023 b. TTRO water - Letter from TWAD for the supply of 22.70 MLD TTRO water vide Letter no. CMWSSB/CE(O&M)II/STP(N)/45TTRO – KOD/039/SIPCOT – Manallur dated 25.03.2023
18.	Details of Sewage generation and Treatment	Total Sewage generation: 593 KLD **Treatment Method:** • Sewage from Industries - Will be treated by individual industries and used for green belt development within the IP. • Sewage from Industrial Housing - SIPCOT will provide STP of capacity 250 KLD for Industrial Housing.
19.	Details of greywater / Effluent generation and Treatment	Total Effluent Generation: 1193 KLD **Treatment Method:** • Effluent from Industries - Will be treated by individual industries and reused for process and utilities. ZLD will be maintained by individual industries, if necessary. • Effluent from Industries - SIPCOT will provide ETP of capacity 1300 KLD.
20.	Mode of Disposal of treated sewage / effluent	• Treated effluent will be used by individual units for their Process & Utilities • Treated sewage will be used for greenbelt & Flushing.

<table>
<tr><td>21.</td><td>Quantity of Solid Waste generation, Mode of treatment and Disposal</td><td>
<table>
<tr><th>Description</th><th>Details</th><th>Unit</th></tr>
<tr><td>Total Solid Waste Generation</td><td>4.860</td><td>TPD</td></tr>
<tr><td>Organic waste</td><td>2.916</td><td>TPD</td></tr>
<tr><td>Mode of Treatment & Disposal</td><td colspan="2">For Industrial Park: Individual industries will segregate the waste and organic waste will be composted and used as manure for green belt development.
Inorganic waste will be sold to TNPCB authorized recyclers/local vendors by individual industries.
For Industrial Housing: Organic wastes will be composted in Organic Waste Convertor and the compost will be used as manure for green belt development.
Inorganic waste will be collected and sold to TNPCB authorized recyclers / local vendors.</td><td>-</td></tr>
</table>
</td></tr>
<tr><td>22.</td><td>Quantity of E-Waste generation, Mode of treatment and Disposal</td><td>E-waste such used PC, equipment, sensor, controller, etc) will be generated from the proposed units in IP and Industrial Housing. The same will be disposed through TNPCB Authorized E-waste Vendor by Individual units as per E-waste Management Rules 2022.</td></tr>
<tr><td>23.</td><td>Quantity of Biomedical Waste generation, Mode of treatment and Disposal</td><td>
Biomedical waste generation and management (Medical centre proposed within Industrial housing)
<table>
<tr><th>Waste Schedule</th><th>Waste Type</th><th>Quantity</th><th>Method of Disposal</th></tr>
<tr><td>Yellow</td><td>Soiled wastes</td><td>6.5 kg/month</td><td>Will be sent to TNPCB Authorized common Biomedical waste Management Facility for Incineration</td></tr>
<tr><td>Red</td><td>Contaminated wastes</td><td>4.7 kg/month</td><td>Will be sent to TNPCB Authorized common Biomedical waste Management Facility for sterilization</td></tr>
<tr><td>White</td><td>Waste sharps including metals</td><td>0.3 kg/month</td><td>Will be sent to TNPCB Authorized common Biomedical waste Management Facility for shredding & disposal</td></tr>
<tr><td>Blue</td><td>Glassware</td><td>1.8 kg/month</td><td>Will be sent to TNPCB Authorized common Biomedical waste Management Facility for disinfection & recycling</td></tr>
</table>
</td></tr>
<tr><td>24.</td><td>Quantity of Hazardous Waste generation, Mode of treatment and Disposal</td><td>
Hazardous waste generation from SEZ & its management
<table>
<tr><th>Hazardous waste schedule & type</th><th>Quantity</th><th>Method of Disposal</th></tr>
<tr><td>5.1 - Used /Spent Oil</td><td>0.5KL/A</td><td>Will be sent to TNPCB authorized recyclers/vendors</td></tr>
<tr><td>33.3-Empty barrels/ containers/ liners contaminated with hazardous chemicals/wastes</td><td>5 nos/Annum</td><td>Will be sent to TNPCB authorized recyclers</td></tr>
</table>
</td></tr>
<tr><td>25.</td><td>Power requirement</td><td>22 MVA (Source: TANGEDCO)</td></tr>
<tr><td>26.</td><td>Details of solar energy</td><td>50% of total roof coverage
1) Solar panels will be proposed in the roof top of Project office. Solar power will be utilized for the IP internal road lighting.
2) Apart from this, individual industries will be advised to provide roof top solar panels & solar lighting to reduce power consumption.</td></tr>
<tr><td>27.</td><td>Details of D.G. set with Capacity</td><td>Individual industries will have their own power back up:</td></tr>
</table>

28.	Details of Green Belt Area i) Total area of green belt ii) No. of trees existing within the project site iii) No. of trees proposed to be planted iv) No. of trees to be transplanted / cut	I. Greenbelt Area – 77.883 Ha (192.37 Acres) II. Existing Tree – 6,117 Nos. III. Tree cut - 0 Nos. IV. Tree going to be planted – 1,46,027 Nos.
29.	Details of OSR Area	27.737 Ha (68.51 acres) (12.85%)
30.	Details of Parking Area	Truck parking is provided in Common amenities area by SIPCOT and Individual units will also have their own parking space within their Site.
31.	Provision for rain water harvesting	• Rain water Harvesting pit proposed = 3522 nos • The capacity of the Rain water harvesting pit has been calculated as 1.18 m3 (Assuming 50% percolation rate). • Storm water will be collected in RWH pits through storm water drains and only excess storm water will be let into nearby water bodies after filtration.
32.	EMP Cost (Rs.)	Capital cost-34.59 Crores Recurring cost/annum-67 lakhs
33.	CER Cost	Rs. 1.5 Crores. As accepted by the project proponent, amount shall be spent for the conservation measures towards Pulicat Bird Sanctuary in consultation with the State Wildlife Warden, Chennai.

12. **General Instructions:**

(a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

(b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

(c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.

(d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

(f) The Regional Office of this Ministry 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.

(g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. This issues with the approval of the Competent Authority.

Copy To

1.The Additional Chief Secretary to Government, Environment, Climate Change and Forests Department, 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 Chairperson, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4.Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi - 110003.
5.Stock File.

Annexure 1

Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Seac Conditions - Site Specific

S. No	EC Conditions
1.1	1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating. 3. PP shall submit the commitment letter from the local body for supply of fresh water. 4. 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. 5. The proponent must protect 5 numbers of Ficus trees existing in the site by constructing stone wall fencing around each tree. 6. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility. 7. 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. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system. 8. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading. 9. Project proponent should ensure that there will be no use of “Single use of Plastic” (SUP). 10. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same. 11. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms. 12. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment. 13. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly. 14. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority. 15. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water. 16. The proponent should provide the MoU with STPs’ owner/concerned department for getting the STPs treated water for construction use.

2. Seiaa Specific Conditions:

S. No	EC Conditions
2.1	1. 1. The PP shall ensure that the proposed activities in no way result any impact on the migratory birds. 2. The PP shall ensure that the proposed activity in no way result any impact on the surrounding Agriculture. 3. The proponent shall ensure that the buildings should not cause any damage to water Table & natural drainage. 4. The proponent shall take necessary action to reduce anthropogenic GHGs such as CO2, CH4, nitrous oxide, etc., and temperature rise resulting from human activities.

3. Seiaa Standard Conditions:

S. No	EC Conditions
3.1	**Climate Change** 1. The proponent shall adopt strategies to decarbonize the building. 2. The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials). 3. The proponent shall adopt strategies to reduce temperature including the Building Façade. 4. The proponent shall adopt methodology to control thermal environment and other shocks in the building. 5. The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation. 6. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands. 7. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues. 8. The activities should in no way cause emission and build-up Green House Gases. All actions to be eco-friendly and support sustainable management of the natural resources within and outside the campus premises. 9. The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be carbon neutral building. **Health** 10. The proponent shall adopt strategies to maintain the health of the inhabitants. **Energy** 11. The proponent shall adopt strategies to reduce electricity demand and consumption. 12. The proponent shall provide provisions for automated energy efficiency. 13. The proponent shall provide provisions for controlled ventilation and lighting systems. 14. The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed. 15. All the construction of Buildings shall be energy efficient and conform to the green building norms. The PP shall ensure that carbon neutral building. 16. The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so as to ensure continuous and efficient operation. **Regulatory Frameworks** 17. The proponent shall adopt methodologies to effectively implement the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other

S. No	EC Conditions
	Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001. 18. The project proponent shall ensure to provide adequate elevated closed area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001. 19. The proponent shall provide elevator as per rules CMDA/DTCP. **Database maintenance & audits** 20. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format. 21. The proponent should maintain environmental audits to measure and mitigate environmental concerns. **Biodiversity** 22. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc,. 23. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species. 24. The proponent shall adopt sustainability criteria to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements. 25. The proponent shall ensure almost safety for the existing biodiversity, trees, flora & fauna shall not disturb under any circumstances. 26. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms. 27. The proponent shall adopt strategies to prevent bird hits. Safety measures 28. The proponent should develop an emergency response plan in addition to the disaster management plan. 29. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan in emergencies. 30. All bio-safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP. 31. The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities. 32. The proponent shall provide the emergency exit in the buildings. 33. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority. **Water/Sewage** 34. The proponent shall ensure that no treated or untreated sewage shall be let outside the project site & shall find access to nearby water-bodies under any circumstances other than the permitted mode of disposal. 35. The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time. 36. The proponent shall periodically test the treated sewage the through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB. 37. The proponent shall periodically test the water sample for the general water quality core parameters including fecal coliform within the proposed project site through TNPCB lab /NABL accredited laboratory and submit report to the concerned authorities. 38. The proponent shall ensure that provision should be given for proper utilization of recycled

S. No	EC Conditions
	water. 39. The project proponent shall adhere to storm water management plan as committed. **Parking** 40. The project proponent shall adhere to provide adequate parking space for visitors of all inmates including clean traffic plan as committed. **Solid waste Management** 41. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time. 42. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. **EMP** 43. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly. 44. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO from TNPCB. 45. The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP. Also, the proponent shall explore possibilities to provide sufficient grass lawns. **Others** 46. As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the proposed activity including withdrawal of EC and stoppage of work. 47. The project proponent shall adhere to height of the buildings as committed.

Standard EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Statutory Compliance

S. No	EC Conditions
1.1	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
1.2	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
1.3	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
1.4	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
1.6	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

S. No	EC Conditions
1.7	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
1.8	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
1.9	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2.2	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
2.3	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
2.4	Diesel power generating sets proposed as source of backup power 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. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
2.5	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
2.6	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
2.7	Wet jet shall be provided for grinding and stone cutting.
2.8	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
2.9	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.

S. No	EC Conditions
2.10	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
2.11	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
2.12	For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
3.2	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3.3	Total fresh water use shall not exceed the proposed requirement as provided in the project details.
3.4	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
3.5	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available.
3.6	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
3.7	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
3.8	Use of water saving devices/fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
3.9	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3.10	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

S. No	EC Conditions
3.11	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
3.12	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse.
3.13	All recharge should be limited to shallow aquifer.
3.14	No ground water shall be used during construction phase of the project.
3.15	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
3.16	No sewage or untreated effluent water would be discharged through storm water drains.
3.17	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
3.18	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
3.19	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
4.2	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
5.2	Outdoor and common area lighting shall be LED.
5.3	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5.4	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

6. Waste Management

S. No	EC Conditions
6.1	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
6.2	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
6.3	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
6.4	Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
6.5	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6.6	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
6.7	Fly ash 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 25th January, 2016. Ready mixed concrete must be used in building construction.
6.8	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.

S. No	EC Conditions
6.9	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.

7. Green Cover

S. No	EC Conditions
7.1	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
7.2	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
7.3	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
7.4	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

8. Transport

S. No	EC Conditions
8.1	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.
8.2	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

9.

S. No	EC Conditions
9.1	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative

S. No	EC Conditions
	impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

10. Human Health Issues

S. No	EC Conditions
10.1	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
10.2	For indoor air quality the ventilation provisions as per National Building Code of India.
10.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
10.4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
10.5	Occupational health surveillance of the workers shall be done on a regular basis.
10.6	A First Aid Room shall be provided in the project both during construction and operations of the project.

11. Miscellaneous

S. No	EC Conditions
11.1	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
11.2	ii. environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
11.4	The project proponent shall submit six-monthly reports on the status of the compliance of the

S. No	EC Conditions
	stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
11.5	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
11.6	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
11.7	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report
11.8	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
11.9	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
11.10	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
11.11	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Expert Appraisal Committee.
11.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC)/SEIAA-TN.
11.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11.14	The Ministry/SEIAA-TN may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11.15	The Ministry/SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by

S. No	EC Conditions
	furnishing the requisite data / information/monitoring reports.
11.17	The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
11.18	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

12. Specific Conditions

S. No	EC Conditions
12.1	The project proponent shall develop R& D facilities to develop their own technologies for propylene and polypropylene processing.

Annexure -2

NEWSPAPER ADVERTISEMENT

STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LIMITED
19-A, RUKMANI LAKSHMIPATHY ROAD,
EGMORE, CHENNAI - 600 008.
CIN U74999TN1971SGC005967

SIPCOT INDUSTRIAL PARK WITH INDUSTRIAL HOUSING FACILITY

ENVIRONMENTAL CLEARANCE

Environmental Clearance has been obtained for the proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu from the State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide EC **Identification No. EC24B3813TN5100474N, File No. 9263 dated 22.04.2024.**

The Environmental Clearance (EC) letter can be downloaded from the SIPCOT website **www.sipcot.tn.gov.in.** The Clearance Letter is also available in the website of Ministry of Environment, Forest and Climate Change (MoEF&CC) / SEIAA.

DIPR / 462 / Display / 2024

MANAGING DIRECTOR

Annexure 3

Tamil Nadu
State Pollution Control Board

Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change
Government of India

- Industry Profile
- Apply For Consent
- Change Password
- Delete Application
- Consent Fee Calculator
- Online Payment Verification
- View Notices 0

Send us your feedback and suggestions

click here for any kind complaints or query

Welcome DEVELOPMENT OF INDUSTRIAL PARK WITH INDUTRIAL HOUSING FACILITY AT VANIAMALLEE Date : 25-6-2024

Consent Application Details

Application No : 59704657

Congratulations! Application submitted successfully.

Please submit the signed hard copy of application with required signed enclosures to concerned District office on request of DEE/AEE concerned.

Your Consent Application application has been received under the Application Number **59704657.** *(Note this number for future communication and know the online status of the application submitted)*

Submitted application is under processing. Please send the following documents by post/by hand. You may ignore sending the documents which have been uploaded online.

1) A covering requisition letter stating the status of the industry and activities clearly.
2) Copy of attested sale Deed /Lease Deed or any other relevant documents as proof to ensure possession of the site/factory for which application is made by the applicant.
3) Copy of attested Memorandum of Articles in case of Public/Private sectors or registered partnership deed in case of partnership company.
4) Layout plan showing the location of various process equipments, utilities like boiler, generator etc, effluent treatment plant, outlet location, non-hazardous and hazardous waste storage yard.
5) Topo sketch showing the distance of water bodies, roads, existing/proposed residential areas, agricultural lands, important religious locations, educational institutions, ancient monuments, archeological places and other sensitive areas for 1 KM. radius from the units.
6) Detailed manufacturing process for each product along with detailed process flow chart.
7) Details of Water Balance and wastewater balance for process.
8) Details of Material balance for each products and process.

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TEST REPORT

ULR : TC1231025000016170F
Report No. : HECS/AP/068/050325
Sample ID No : 050325104
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	7.61	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	26.05	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	11.30	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	71.27	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	38.05	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	9.66	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.01)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/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

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Report No. : **HECS/AP/068/050325/N**
Sample ID No : **050325104**
Sampling Date : **02/03/2025**

Name of the Client : **M/s. SIPCOT**

Address of the Client : **Vaniamallee**

Group : **Atmospheric Pollution**
Sample Name : **Ambient Air**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Near Project Site(Vaniyamalli)**
Environmental Condition : **Temperature (°C) : 29.8 | Humidity (%) : 53.0**
Sampling Method & Plan : **IS 5182 Part 5 & Part 14**

Received Date : **05/03/2025**
Commenced Date : **05/03/2025**
Completed On : **03/04/2025**
Report Date : **03/04/2025**
Sample quantity : **NA**

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

Note:- ppmv- Parts per million by Volume.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

ULR : TC1231025000016171F
Report No. : HECS/AP/069/050325
Sample ID No : 050325105
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Iguvarpalaiyam
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	2.27	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	6.83	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	8.47	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	BLQ(LOQ 10)	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	92.64	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	45.18	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	8.50	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	0.08	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/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

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TEST REPORT

Report No. : **HECS/AP/069/050325/N**
Sample ID No : **050325105**
Sampling Date : **02/03/2025**

Name of the Client : **M/s. SIPCOT**

Address of the Client : **Vaniamallee**

Group : **Atmospheric Pollution**
Sample Name : **Ambient Air**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Iguvarpalaiyam**
Environmental Condition : **Temperature (°C) : 29.8 | Humidity (%) : 53.0**
Sampling Method & Plan : **IS 5182 Part 5 & Part 14**

Received Date : **05/03/2025**
Commenced Date : **05/03/2025**
Completed On : **03/04/2025**
Report Date : **03/04/2025**
Sample quantity : **NA**

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

Note:- ppmv- Parts per million by Volume.

End of Report

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TEST REPORT

ULR : TC1231025000016172F
Report No. : HECS/AP/070/050325
Sample ID No : 050325106
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	9.07	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	5.86	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	17.92	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	89.70	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	37.07	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	BLQ(LOQ 5)	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	0.03	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/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

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TEST REPORT

Report No. : HECS/AP/070/050325/N
Sample ID No : 050325106
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

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

Note:- ppmv- Parts per million by Volume.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

ULR : TC1231025000016173F
Report No. : HECS/AP/071/050325
Sample ID No : 050325107
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Guruvarajakandigai
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	2.81	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	11.70	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	9.54	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	12.41	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	86.88	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	24.99	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	27.44	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	0.08	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/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

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Report No. : HECS/AP/071/050325/N
Sample ID No : 050325107
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT
Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Guruvarajakandigai
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

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

Note:- ppmv- Parts per million by Volume.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

ULR : TC1231025000016174F
Report No. : HECS/AP/072/050325
Sample ID No : 050325108
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Teruvai
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA-

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	BLQ(LOQ 5)	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	BLQ(LOQ 5)	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	BLQ(LOQ 10)	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	84.67	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	27.45	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	29.38	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/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

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TEST REPORT

Report No. : HECS/AP/072/050325/N
Sample ID No : 050325108
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT
Address of the Client : Vaniamallee

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Teruvai
Environmental Condition : Temperature (°C) : 29.8 | Humidity (%) : 53.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

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

Note:- ppmv- Parts per million by Volume.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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Authorized Signatory

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TC-12310

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

TEST REPORT

ULR : TC1231025000013311F
Report No. : HECSL/WT/015/050325
Sample ID No : 050325110
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
Discipline : Chemical						
1	Bi carbonate	mg/l	115.9	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	28.06	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	71.75	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
6	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
7	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
8	Electrical Conductivity at 25°C	µS/cm	513.0	IS 3025 Part-14: 2013	NA	NA
9	Fluoride as F	mg/l	0.29	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
10	Iron as Fe	mg/l	0.13	IS 3025 (Part 53): 2003	1.0	No relaxation
11	Magnesium as Mg	mg/l	14.58	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
12	Nitrate as NO3	mg/l	3.91	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation

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TEST REPORT

ULR : TC1231025000013311F
Report No. : HECSL/WT/015/050325
Sample ID No : 050325110
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
13	pH at 25°C	-	7.32	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
14	Potassium as K	mg/l	4.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	42.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
16	Sulphate as SO4	mg/l	27.75	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	267.0	IS 3025 (Part 16): 1984	500	2000
18	Total Suspended Solids	mg/l	5.0	IS 3025 (Part 17): 1984	NA	NA
19	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO3	mg/l	130.0	IS 3025 (Part 21): 2009	200	600
21	Turbidity, NTU	NTU	2.1	IS 3025 (Part 10): 1984	1	5
22	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation

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TEST REPORT

ULR : TC1231025000013311F
Report No. : HECSL/WT/015/050325
Sample ID No : 050325110
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
23	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
24	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
25	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
27	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
28	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
29	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15
30	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
31	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
32	Percent Sodium	%	40.17	HECS /WT/SOP/002::2019	NA	NA
33	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	0.2	1.0
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA	NA

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TEST REPORT

ULR : TC1231025000013311F
Report No. : HECSL/WT/015/050325
Sample ID No : 050325110
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
36	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	1.6	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.4	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA
38	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
39	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
40	Selenium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.01	No relaxation
41	Manganese	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1	0.3
42	Total alkalinity as CaCO3	mg/l	95.0	IS 3025 (Part 23): 1986	200	600
43	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022	NA	NA

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

Report No. : HECSL/WT/015/050325N
Sample ID No : 050325110
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52 Clause 6: 2003

Note:- BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre.

End of Report

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TEST REPORT

ULR : TC1231025000013312F
Report No. : HECSL/WT/016/050325
Sample ID No : 050325111
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Iguvarpalaiyam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
Discipline : Chemical						
1	Bi carbonate	mg/l	73.2	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	18.04	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	27.21	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
6	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
7	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
8	Electrical Conductivity at 25°C	µS/cm	297.0	IS 3025 Part-14: 2013	NA	NA
9	Fluoride as F	mg/l	0.22	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
10	Iron as Fe	mg/l	0.038	IS 3025 (Part 53): 2003	1.0	No relaxation
11	Magnesium as Mg	mg/l	10.94	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
12	Nitrate as NO3	mg/l	2.48	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation

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TEST REPORT

ULR : TC1231025000013312F
Report No. : HECSL/WT/016/050325
Sample ID No : 050325111
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Iguvarpalaiyam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
13	pH at 25°C	-	7.21	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
14	Potassium as K	mg/l	2.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	15.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
16	Sulphate as SO4	mg/l	26.04	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	156.0	IS 3025 (Part 16): 1984	500	2000
18	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
19	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO3	mg/l	90.0	IS 3025 (Part 21): 2009	200	600
21	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
22	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation

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TEST REPORT

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Sample ID No : 050325111
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Iguvarpalaiyam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
23	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
24	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
25	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
27	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
28	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
29	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15
30	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.005)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
31	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
32	Percent Sodium	%	25.92	HECS /WT/SOP/002:: 2019	NA	NA
33	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
34	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA

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TEST REPORT

ULR : TC1231025000013312F
Report No. : HECSL/WT/016/050325
Sample ID No : 050325111
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Iguvarpalaiyam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
36	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	0.7	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA
38	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
39	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
40	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
41	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
42	Total alkalinity as CaCO3	mg/l	60.0	IS 3025 (Part 23): 1986	200	600
43	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022	NA	NA

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

Report No. : **HECSL/WT/016/050325N**
Sample ID No : **050325111**
Sampling Date : **01/03/2025**

Name of the Client : **M/s. SIPCOT**

Address of the Client : **Vaniamallee**

Group : **Water**
Sample Name : **Ground Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Iguvarpalaiyam**
Environmental Condition : **Temperature (°C) : 26.8 | Humidity (%) : 55.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Received Date : **05/03/2025**
Commenced Date : **05/03/2025**
Completed On : **19/03/2025**
Report Date : **19/03/2025**
Sample quantity : **1 Litres**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52 Clause 6: 2003

Note:- BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre.

End of Report

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TEST REPORT

ULR : TC1231025000013313F
Report No. : HECSL/WT/017/050325
Sample ID No : 050325112
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
Discipline : Chemical						
1	Bi carbonate	mg/l	439.2	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	104.21	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	400.85	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
6	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
7	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
8	Electrical Conductivity at 25°C	µS/cm	1850.0	IS 3025 Part-14: 2013	NA	NA
9	Fluoride as F	mg/l	0.43	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
10	Iron as Fe	mg/l	0.045	IS 3025 (Part 53): 2003	1.0	No relaxation
11	Magnesium as Mg	mg/l	53.46	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
12	Nitrate as NO3	mg/l	18.74	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation

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TEST REPORT

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Report No. : HECSL/WT/017/050325
Sample ID No : 050325112
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
13	pH at 25°C	-	7.21	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
14	Potassium as K	mg/l	18.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	210.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
16	Sulphate as SO4	mg/l	51.63	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	1091.0	IS 3025 (Part 16): 1984	500	2000
18	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
19	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO3	mg/l	480.0	IS 3025 (Part 21): 2009	200	600
21	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
22	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation

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TEST REPORT

ULR : TC1231025000013313F
Report No. : HECSL/WT/017/050325
Sample ID No : 050325112
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
23	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
24	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
25	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
27	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
28	Nickel	mg/l	0.014	USEPA 200.8 : 1994	0.02	No relaxation
29	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15
30	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
31	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
32	Percent Sodium	%	47.41	HECS /WT/SOP/002:: 2019	NA	NA
33	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
34	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation

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TEST REPORT

ULR : TC1231025000013313F
Report No. : HECSL/WT/017/050325
Sample ID No : 050325112
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Acceptable Limits (Max)
36	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	4.2	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.6	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA
38	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
39	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
40	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
41	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
42	Total alkalinity as CaCO3	mg/l	360.0	IS 3025 (Part 23): 1986	200	600
43	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022	NA	NA

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

Report No. : HECSL/WT/017/050325N
Sample ID No : 050325112
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 19/03/2025
Report Date : 19/03/2025
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52 Clause 6: 2003

Note:- BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre.

End of Report

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TEST REPORT

ULR : TC123102500001660 3F
Report No. : HECSL/WT/018/050325
Sample ID No : 050325113
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Pond near Vaniyamalli
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Bi carbonate	mg/l	41.48	IS 3025 Part 51: 2001	NA
2	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	2.0	IS 3025 Part 44: 1993	30
3	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
4	Calcium as Ca	mg/l	9.62	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	NA
5	Chemical Oxygen Demand (COD)	mg/l	20.0	IS 3025 Part 58: 2006	250
6	Chloride as Cl	mg/l	18.81	IS 3025 Part 32: 1988 (Argentometric Method)	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	NA
8	Dissolved oxygen	mg/l	6.2	IS 3025 Part 38: 1989	NA
9	Electrical Conductivity at 25°C	µS/cm	156.0	IS:3025 Part 14: 2013	NA
10	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition Method 4500 F -B,D: 2017	2.0
11	Iron as Fe	mg/l	0.22	IS 3025 Part 53: 2003	3.0
12	Nitrate as NO3	mg/l	2.82	APHA 23rd edition Method 4500 NO3B: 2017	NA

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TEST REPORT

ULR : TC1231025000016603F
Report No. : HECSL/WT/018/050325
Sample ID No : 050325113
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Pond near Vaniyamalli
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296Class-A)
13	pH at 25°C		8.09	IS 3025 Part 11: 2022 (Electrometric Method)	5.5 – 9.0
14	Total dissolved solids	mg/l	88.0	IS 3025 Part 16: 1984	NA
15	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
16	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.2
17	Magnesium as Mg	mg/l	5.83	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	NA
18	Potassium as K	mg/l	1.0	IS 3025 Part 45: 1993	NA
19	Sodium as Na	mg/l	9.0	IS 3025 Part 45: 1983	NA
20	Sulphate as SO4	mg/l	6.48	IS 3025 Part 24 Sec 1: 2022	NA
21	Total Hardness as CaCO3	mg/l	48.0	IS 3025 Part 21: 2009	NA
22	Total Phosphorous as P	mg/l	0.03	IS 3025 Part 31 Sec 1: 2022	NA
23	Total Suspended Solids	mg/l	16.0	IS 3025 Part 17: 1984	100

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TEST REPORT

ULR : TC1231025000016603F
Report No. : HECSL/WT/018/050325
Sample ID No : 050325113
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Pond near Vaniyamalli
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
24	Turbidity	NTU	3.0	IS 3025 Part 10: 1984	NA
25	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.2
26	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	2.0
27	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	2.0
28	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0
29	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
30	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.01
31	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0
32	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5.0
33	Total alkalinity as CaCO3	mg/l	34.0	IS 3025 Part 23: 1986	NA
34	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	2.0
35	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
36	Phosphate as PO4	mg/l	0.093	APHA 23rd edition Method 4500-P B,D: 2017	NA

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Report No. : HECSL/WT/018/050325
Sample ID No : 050325113
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Pond near Vaniyamalli
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
37	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	1.0
38	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	NA
39	Percent Sodium	%	28.34	HECSG /WT/SOP/002 Issue No:01,Issue date 18.12: 2021	NA
40	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA
41	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
42	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	5.0
43	Sodium Adsorption Ratio(SAR)	Square root of (millimole/litr	0.56	IS 11624: 2019	NA

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

Report No. : HECSL/WT/018/050325N
Sample ID No : 050325113
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Pond near Vaniyamalli
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52 Clause 6: 2003	0.1

Note:- BLQ : Below the Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre, % - Percentage.

End of Report

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TEST REPORT

ULR : TC123102500001660 4F
Report No. : HECSL/WT/019/050325
Sample ID No : 050325114
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Lake near Sitturnattam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Bi carbonate	mg/l	79.3	IS 3025 Part 51: 2001	NA
2	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	30
3	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
4	Calcium as Ca	mg/l	26.05	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	NA
5	Chemical Oxygen Demand (COD)	mg/l	4.0	IS 3025 Part 58: 2006	250
6	Chloride as Cl	mg/l	34.64	IS 3025 Part 32: 1988 (Argentometric Method)	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	NA
8	Dissolved oxygen	mg/l	6.4	IS 3025 Part 38: 1989	NA
9	Electrical Conductivity at 25°C	µS/cm	351.0	IS:3025 Part 14: 2013	NA
10	Fluoride as F	mg/l	0.22	APHA 23rd edition Method 4500 F -B,D: 2017	2.0
11	Iron as Fe	mg/l	0.061	IS 3025 Part 53: 2003	3.0
12	Nitrate as NO3	mg/l	1.37	APHA 23rd edition Method 4500 NO3B: 2017	NA

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TEST REPORT

ULR : TC1231025000016604F
Report No. : HECSL/WT/019/050325
Sample ID No : 050325114
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Lake near Sitturnattam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
13	pH at 25°C		6.59	IS 3025 Part 11: 2022 (Electrometric Method)	5.5 – 9.0
14	Total dissolved solids	mg/l	187.0	IS 3025 Part 16: 1984	NA
15	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
16	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.2
17	Magnesium as Mg	mg/l	13.37	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	NA
18	Potassium as K	mg/l	2.0	IS 3025 Part 45: 1993	NA
19	Sodium as Na	mg/l	16.0	IS 3025 Part 45: 1983	NA
20	Sulphate as SO4	mg/l	40.34	IS 3025 Part 24 Sec 1: 2022	NA
21	Total Hardness as CaCO3	mg/l	120.0	IS 3025 Part 21: 2009	NA
22	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022	NA
23	Total Suspended Solids	mg/l	2.0	IS 3025 Part 17: 1984	100

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TEST REPORT

ULR : TC1231025000016604F
Report No. : HECSL/WT/019/050325
Sample ID No : 050325114
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Lake near Sitturnattam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
24	Turbidity	NTU	0.7	IS 3025 Part 10: 1984	NA
25	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.2
26	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	2.0
27	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	2.0
28	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0
29	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
30	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.01
31	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0
32	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5.0
33	Total alkalinity as CaCO3	mg/l	65.0	IS 3025 Part 23: 1986	NA
34	Manganese	mg/l	0.017	USEPA 200.8 : 1994	2.0
35	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
36	Phosphate as PO4	mg/l	0.071	APHA 23rd edition Method 4500-P B,D: 2017	NA

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TEST REPORT

ULR : TC1231025000016604F
Report No. : HECSL/WT/019/050325
Sample ID No : 050325114
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Lake near Sitturnattam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
37	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	1.0
38	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	NA
39	Percent Sodium	%	21.99	HECSG /WT/SOP/002 Issue No:01,Issue date 18.12: 2021	NA
40	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA
41	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
42	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	5.0
43	Sodium Adsorption Ratio(SAR)	Square root of (millimole/litr	0.63	IS 11624: 2019	NA

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

Report No. : **HECSL/WT/019/050325N**
Sample ID No : **050325114**
Sampling Date : **01/03/2025**

Name of the Client : **M/s. SIPCOT**

Address of the Client : **Vaniamallee**

Group : **Water**
Sample Name : **Surface Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Lake near Sitturnattam**
Environmental Condition : **Temperature (°C) : 26.8 | Humidity (%) : 55.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Received Date : **05/03/2025**
Commenced Date : **05/03/2025**
Completed On : **05/04/2025**
Report Date : **05/04/2025**
Sample quantity : **2 Litres**

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52 Clause 6: 2003	0.1

Note:- BLQ : Below the Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre, % - Percentage.

End of Report

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TEST REPORT

ULR : TC123102500001480OF
Report No. : HECS/PE/015/050325
Sample ID No : 050325115
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	0.20	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	47.07	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	30.38	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	14.62	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Silt loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	16.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	58.6	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	24.6	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	5.64	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	33.2	IS 14767: 2000

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TEST REPORT

ULR : TC1231025000014800F
Report No. : HECS/PE/015/050325
Sample ID No : 050325115
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	0.98	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.23	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.41	IS 2720 (Part 22) Section I 1972
14	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	16.26	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0133	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	12.68	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	6.34	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.1	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	31.6	IS 14765: 2000
22	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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TEST REPORT

Report No. : HECS/PE/015/050325N
Sample ID No : 050325115
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Site(Vaniyamalli)
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	132.89	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	16.17	Inhouse method
3	Infiltration Rate	-	0.7	Inhouse method
4	Moisture	%	9.93	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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TEST REPORT

ULR : TC231025000014801F
Report No. : HECS/PE/016/050325
Sample ID No : 050325116
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Iguvarpalaiyam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	0.15	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	50.15	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	14.67	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	10.98	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	26.0	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	35.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	38.6	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	5.52	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	15.7	IS 14767: 2000

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TEST REPORT

ULR : TC123102500001480 1F
Report No. : HECS/PE/016/050325
Sample ID No : 050325116
Sampling Date : 01/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Iguvarpalaiyam
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	0.97	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.22	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.39	IS 2720 (Part 22) Section I 1972
14	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	14.82	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0090	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	9.91	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	6.60	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	1.9	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	18.8	IS 14765: 2000
22	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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TEST REPORT

Report No. : **HECS/PE/016/050325N**
Sample ID No : **050325116**
Sampling Date : **01/03/2025**

Name of the Client : **M/s. SIPCOT**

Address of the Client : **Vaniamallee**

Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Iguvarpalaiyam**
Environmental Condition : **Temperature (°C) : 26.8 | Humidity (%) : 55.0**
Sampling Method & Plan : **ICARDA :2013**

Received Date : **05/03/2025**
Commenced Date : **05/03/2025**
Completed On : **28/03/2025**
Report Date : **28/03/2025**
Sample quantity : **1 Kg**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	87.86	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	6.11	Inhouse method
3	Infiltration Rate	-	0.8	Inhouse method
4	Moisture	%	3.98	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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TEST REPORT

ULR : TC1231025000014802F
Report No. : HECS/PE/017/050325
Sample ID No : 050325117
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	0.15	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	39.26	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	17.31	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	18.67	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	14.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	20.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	64.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	8.78	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	76.8	IS 14767: 2000

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

D.Anusuya
Lab Manager
Authorized Signatory

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TC-12310

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

TEST REPORT

ULR : TC1231025000014802F
Report No. : HECS/PE/017/050325
Sample ID No : 050325117
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	0.95	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.33	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.58	IS 2720 (Part 22) Section I 1972
14	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	13.13	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0109	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	5.85	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	11.71	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.0	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	21.5	IS 14765: 2000
22	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Report No. : HECS/PE/017/050325N
Sample ID No : 050325117
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Gummidipundi
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	150.65	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	10.02	Inhouse method
3	Infiltration Rate	-	0.4	Inhouse method
4	Moisture	%	7.89	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07. 2020

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

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

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TEST REPORT

ULR : TC1231025000014803F
Report No. : HECS/PE/018/050325
Sample ID No : 050325118
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Guruvarajakandigai
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	0.20	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	46.34	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	26.22	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	14.39	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	25.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	48.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	25.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	6.64	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	105.3	IS 14767: 2000

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TEST REPORT

ULR : TC123102500001 4803F
Report No. : HECS/PE/018/050325
Sample ID No : 050325118
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Guruvarajakandigai
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	0.97	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.33	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.57	IS 2720 (Part 22) Section I 1972
14	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	17.73	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0132	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	10.37	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	3.45	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	1.8	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	28.8	IS 14765: 2000
22	Colour	-	Brown	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Report No. : **HECS/PE/018/050325N**
Sample ID No : **050325118**
Sampling Date : **02/03/2025**

Name of the Client : **M/s. SIPCOT**

Address of the Client : **Vaniamallee**

Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Guruvarajakandigai**
Environmental Condition : **Temperature (°C) : 26.8 | Humidity (%) : 55.0**
Sampling Method & Plan : **ICARDA :2013**

Received Date : **05/03/2025**
Commenced Date : **05/03/2025**
Completed On : **28/03/2025**
Report Date : **28/03/2025**
Sample quantity : **1 Kg**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	39.21	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	5.01	Inhouse method
3	Infiltration Rate	-	0.7	Inhouse method
4	Moisture	%	4.22	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07. 2020

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

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

ULR : TC1231025000014804F
Report No. : HECS/PE/019/050325
Sample ID No : 050325119
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Teruvai
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	0.23	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	71.78	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	36.73	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	23.31	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Silt loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	30.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	50.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	18.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	6.76	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	125.8	IS 14767: 2000

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TEST REPORT

ULR : TC1231025000014804F
Report No. : HECS/PE/019/050325
Sample ID No : 050325119
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Teruvai
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	0.98	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.26	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.46	IS 2720 (Part 22) Section I 1972
14	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	14.83	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0127	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	13.22	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	6.61	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.1	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	32.6	IS 14765: 2000
22	Colour	-	Brown	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Report No. : HECS/PE/019/050325N
Sample ID No : 050325119
Sampling Date : 02/03/2025

Name of the Client : M/s. SIPCOT

Address of the Client : Vaniamallee

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Teruvai
Environmental Condition : Temperature (°C) : 26.8 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA :2013

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 28/03/2025
Report Date : 28/03/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	207.25	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	12.31	Inhouse method
3	Infiltration Rate	-	1.5	Inhouse method
4	Moisture	%	13.47	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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TEST REPORT

ULR : TC1231025000016175F
Report No. : HECS/AP/073/050325
Sample ID No : 050325109
Sampling Date : 01/03/2025 To 02/03/2025

Name of the Client : **M/s. SIPCOT**

Address of the Client : **Vaniamallee**

Group : **Atmospheric Pollution**
Sample Name : **Ambient Noise Levels (Excluding vibration) (Env)**
Sample Mark : **Noise**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **NA**
Environmental Condition : **Temperature (°C) : 31.8 | Humidity (%) : 53.0**
Sampling Method & Plan : **IS 9989:1981**

Received Date : 05/03/2025
Commenced Date : 05/03/2025
Completed On : 03/04/2025
Report Date : 03/04/2025
Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Near Project Site(Vaniyamalli)	55.0	44.8
2	Near Gummidipundi	54.2	44.6
3	Near Iguvarpalaiyam	54.8	43.9
4	Near Guruvarajakandigai	53.6	42.5
5	Near Teruvai	54.7	44.0

Noise Standards - CPCB:

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

Note: 1. Day Time shall mean from 6.00 am to 10.00 pm.

2. Night Time shall mean from 10.00 pm to 6.00 am.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

D.Anusuya
Lab Manager
Authorized Signatory

Annexure 5

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

SAVE WATER

SUPERINTENDING ENGINEER(WT&T)

2798/2023

Lr.No.CMWSSB/WT&T/RO-II/SIPCOT-MANALLUR Date: 03.02.2023

SIPCOT 06 FEB 2023 CHENNAI-600 008

To,
The Superintending Engineer,
SIPCOT,
No.19 - A, RukmaniLakshmipathy Road,
Post box no. 7223,
Egmore,
Chennai – 600008.

Sir,

Sub: CMWSS Board – C.E.(O&M) II - S.E.(WT&T) - Providing 10MLD of raw water supply from SIPCOT Industrial Park at Thervoykandigai to proposed Industrial park at Manallur – Status of work - Intimation – Reg

Ref: 1)Lr.No.CMWSSB/WT&T/RO-II/SIPCOT-MANALLUR dated 19.09.2022
2)Lr.No. CD/Water Supply/MNL/2022 dated 10.01.2023

With reference to 1st cited above, CMWSSB has acknowledged the online transfer of the deposit amount of Rs.38.26 crores from SIPCOT for the work of "Providing 10MLD of raw water supply from SIPCOT Industrial Park at Thervoykandigai to proposed Industrial park at Manallur". The SIPCOT requested CMWSSB to intimate the work schedule and status for the above work vide reference 2nd cited.

In this connection, it is informed that the tenders were invited for the work of "Providing 10MLD of raw water supply from SIPCOT Industrial Park at Thervoykandigai to proposed Industrial park at Manallur" with tender due on 01.02.2023. The evaluation of tender are under progress and after finalization of tender the work order will be issued for execution of the above work. Later, on signing the agreement by the successful bidder, the work program can be formulated and subsequently SIPCOT would be intimated of the work program.

03.02.23

Superintending Engineer (WT&T)

4643

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

MANAGING DIRECTOR

Lr.No.CMWSSB/CE(O&M)II/STP(N)/45TTRO - KOD/039/SIPCOT-MANALLUR, Date:25.03.2023

To,

11379/2023

The Managing Director,
SIPCOT,
No.19 - A, RukmaniLakshmipathy Road,
Egmore,
Chennai – 600008.

SIPCOT
29 MAR 2023
CHENNAI - 600 008

Sir,

Sub: CMWSSB – C.E(O&M-II) – S.E(W.W.T&R) – E.E STP (North) – 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) plant at Kodungaiyur – Supply of TTRO water to proposed SIPCOT industrial park at Manallur, Gummudipoondi &Thervoykandigai – Outline project cost for TTRO plant & pipeline arrived – Request made by Managing Director SIPCOT to consider conveyance system alone–Outline project cost arrived-Estimate amount to be deposited – Requested – Reg.

Ref: 1.Minutes of the meeting conducted by Managing Director, SIPCOT with CMWSSB officials on 10.10.2022
2.SIPCOT Lr.No.CD/Water Supply/MNL/2022, Dated :02.12.2022

****

During the joint review meeting on reuse of recycled water for industrial purpose held by Additional Chief Secretary to Government for IIP&CD & Additional Chief Secretary to Government for MA&WS dept on 22.11.2022 CMWSSB was instructed to prepare and send the DPR for supplying 22.70 MLD TTRO water from the existing 45MLD TTRO plant to enable SIPCOT for making payment to takeup this work on a deposit work basis.

In this connection, CMWSSB has prepared the outline proposal cost taking into consideration the following excluding the O&M of the pipelines and pumping stations,

i. Conducting Pre- design survey, Soil investigations, Detailed Design and estimate, etc,

ii. Supplying, Laying, Testing and conveying main of size 700mm dia. MS Transmission main for conveying TTRO water from Kodungaiyur TTRO plant upto proposed SIPCOT industrial park at Manallur for an approximate length of 62.5km and 300mm dia DI pipe from proposed SIPCOT industrial park at Manallur to ThervoyKandigai industrial complex for a length of 17km.

iii. Construction of Storage Tank of 2 Nos. of 5 ML Capacity, and pump house of required size including electrical accessories and pumping machineries each at TTRO plant and Manallur Industrial Complexes including foundation, earthwork excavation, shuttering, reinforcement using Epoxy coated Steel / CRS, concrete of M30 and its allied works.

iv. Providing Suction and delivery arrangements including interconnecting with existing sumps with proposed sump at Kodungaiyur TTRO plant and also laying pipeline to the existing sump at Manallur.

v. Construction of Pipe Carrying Bridge at 8 locations.

vi. Railway crossing using Trenchless Method at 3 locations.

vii. Laying transmission main using Trenchless Technology to cross main roads as instructed by the service department at 10 locations.

viii. Supply, transporting, erection, testing and commissioning of pump sets and its allied civil, mechanical, Electrical and Instrumentation Works.

ix. Cathodic Protection for 700mm dia MS Transmission main of 65.2 km length from treated water storage sump at TTRO plant to proposed sump of Manallur industrial complexes.

x. Final Commissioning with detail report preparation, As-built Drawing and submission.

The estimate has been worked out for an amount of Rs.418 Crores for the work of "Supplying, Laying, Jointing and Testing of 700 mm dia MS pipes & 300 mm dia DI Pipes for Conveying TTRO Water from TTRO Plant at Kodungaiyur to Gummidipoondi, Manallur and Thervoykandigai SIPCOT Industrial Complex and other allied Civil, Mechanical, Electrical and Instrumentation works".

The estimate has been prepared based on the CMWSSB SoR 2022-2023, TWAD Board SoR 2022-2023, PWD SoR2022-2023 and approved settled rates for ongoing works in CMWSSB.

For any variations in cost during execution of the work due to change in length of transmission mains, roadcut restoration charges, EB deposit charges, differences over the department amount and contract amount, and escalation in rates over period of years also increase in the estimate cost due to revision based on the SOR of the execution year and any other items rate not contemplated in the estimate the same shall be borne by SIPCOT and CMWSSB reserves the right to claim the amount as and when it is required. The charges towards supply of TTRO water to the hubs will be decided on completion of the works based on the available tariff.

Further, SIPCOT shall be responsible for obtaining permissions from other statutory departments viz. Southern Railways, State and National Highways, District & Village roads, PWD, PCB, etc, and also shall be responsible for allotment of required lands at free of cost to CMWSSB for construction of sump, pump house etc, SIPCOT shall also be responsible for providing electric power supply at the proposed intermediate storage sump at Manallur.

The Detailed Project Report prepared is putup for reference. SIPCOT is requested to provide its concurrence for making deposit of Rs.418.00 Crore to enable CMWSSB to take necessary further action.

A. Prabakar
25/3/2023

MANAGING DIRECTOR

Annexure - 6

SIPCOT – VANIYAMALLE

MONITORING PHOTOGRAPHS

AMBIENT AIR QUALITY MONITORING PHOTOS:

NEAR PROJECT SITE(VANIYAMALLI)

IGUVARPALAIYAM

GUMMIDIPUNDI

GURUVARAJAKANDIGAI

TERUVAI


GROUND WATER SAMPLING PHOTOS

NEAR PROJECT SITE	IGUVARPALAIYAM
	

GUMMIDIPUNDI


NOISE SAMPLING PHOTOGRAPH

NEAR PROJECT SITE	IGUVARPALAIYAM
	
GUMMIDIPUNDI	**GURUVARAJAKANDIGAI**
	

TERUVAI


SOIL MONTORING PHOTOGRAPH

NEAR PROJECT SITE	IGUVARPALAIYAM
	
GUMMIDIPUNDI	**GURUVARAJAKANDIGAI**
	

TERUVAI


SURFACE WATER SAMPLING PHOTOGRAPH

POND NEAR VANIYAMALLI


LAKE NEAR SITTURNATTAM


MANELLORE

Lr.no. PO/SIP/MNL/EC/2024

Date:13.05.2024

To,
The Block Development Officer,
Block Development Office,
Gummidipoondi Taluk.

Sir,

Sub: SIPCOT – Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu – Submission of Copy of Environmental Clearance (EC) issued by SEIAA – Reg.

Ref: SEIAA EC Identification No. EC24B3813TN5100474N dated: 22.04.2024

****

With reference to the above, it is to inform that, SIPCOT has obtained Environmental Clearance (EC) from the State Environment Impact Assessment Authority (SEIAA) for the Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility over an extent of 215.834 Hectares (533.11 Acres) at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.

In accordance with the conditions specified in the EC, it is required that the project proponent must submit the copy of the environmental clearance to the Heads of local bodies, Panchayats, and Municipal Bodies. Subsequently, the above specified bodies are obligated to display the same for a period of 30 days from the date of receipt.

In this regard, we hereby enclose the copy of the environmental clearance for your kind perusal.

Yours faithfully,

13/5/24.

PROJECT OFFICER,
SIPCOT / MANELLORE

Encl: As above.

13 MAY 2024

State Industries Promotion Corporation of Tamil Nadu Limited
(A Government of Tamil Nadu Undertaking)
CIN : U74999TN1971SGC005967
Regd. Office : 19-A, Rukmani Lakshmipathy Road, | This. Office : MDR, Manellore Village, Madharpakkam Post,

MANELLORE

Lr.no. PO/SIP/MNL/EC/2024 Date:13.05.2024

To,
The President,
Vaniyamallee Village,
Gummidipoondi Taluk.

Sir,

Sub: SIPCOT – Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu – Submission of Copy of Environmental Clearance (EC) issued by SEIAA – Reg.

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In this regard, we hereby enclose the copy of the environmental clearance for your kind perusal.

Yours faithfully,

13/5/24

PROJECT OFFICER,
SIPCOT / MANELLORE

Encl: As above.

ஊராட்சி செயலர்
பூவலம்பேடு ஊராட்சி மன்றம்
திருவள்ளூர் ஊராட்சி ஒன்றியம்

State Industries Promotion Corporation of Tamil Nadu Limited
(A Government of Tamil Nadu Undertaking)
CIN : U74999TN1971SGC005967

Regd. Office : 19-A, Rukmani Lakshmipathy Road, | This. Office : MDR, Manellore Village, Madharpakkam Post,

MANELLORE

Lr.no. PO/SIP/MNL/EC/2024 Date:13.05.2024

To,
The President,
Soorapoondi Village,
Gummidipoondi Taluk.

Sir,

Sub: SIPCOT – Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu – Submission of Copy of Environmental Clearance (EC) issued by SEIAA – Reg.

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In this regard, we hereby enclose the copy of the environmental clearance for your kind perusal.

M. K. Vamsi
தலைவர்
சூரப்பூண்டி ஊராட்சி
கும்மிடிப்பூண்டி ஒன்றியம்

Yours faithfully,
13/5/24.
PROJECT OFFICER,
SIPCOT / MANELLORE

Encl: As above.

State Industries Promotion Corporation of Tamil Nadu Limited
(A Government of Tamil Nadu Undertaking)
CIN : U74999TN1971SGC005967

Regd. Office : 19-A, Rukmani Lakshmipathy Road, | This. Office : MDR, Manellore Village, Madharpakkam Post,

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.**

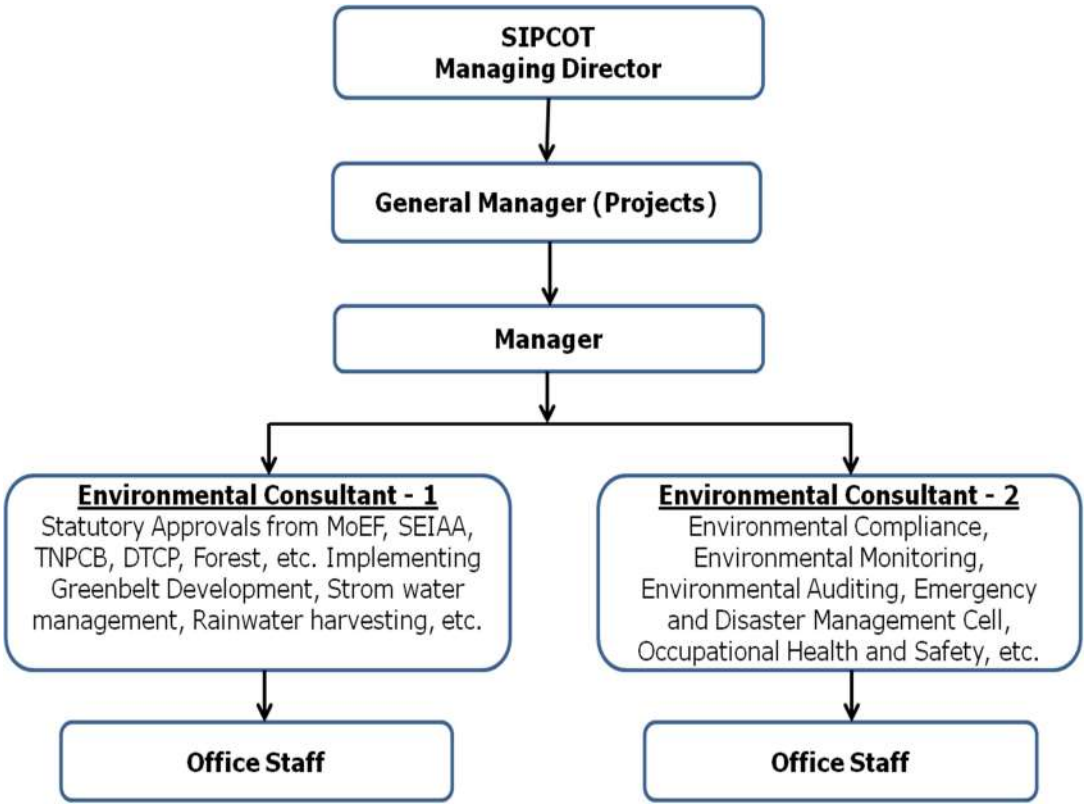


Figure - 1 Organogram for Environmental Management Cell

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.

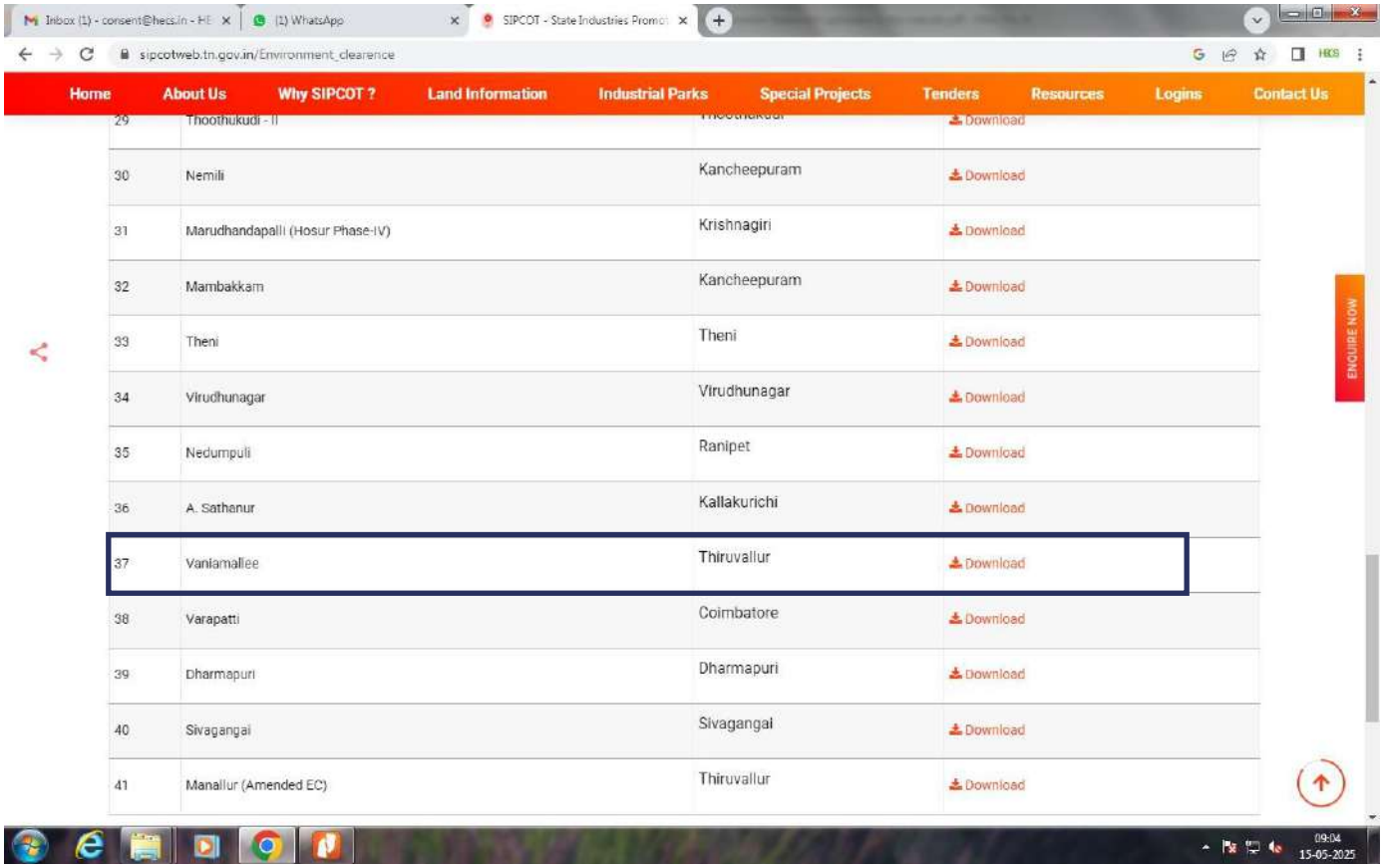
d) Encourages allottee units to implement, adopt and use of green and sustainable technologies such as Solar, Wind, Thermal, Biomass, Electric & Hybrid vehicles, etc. to achieve more resource-efficient, clean and resilient growth towards reducing pollution during their process, manufacturing and transportation 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.

Annexure - 9



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33	Theni	Theni	Download
34	Virudhunagar	Virudhunagar	Download
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36	A. Sathanur	Kallakurichi	Download
37	Vanlamallee	Thiruvallur	Download
38	Varapatti	Coimbatore	Download
39	Dharmapuri	Dharmapuri	Download
40	Sivagangai	Sivagangai	Download
41	Manallur (Amended EC)	Thiruvallur	Download

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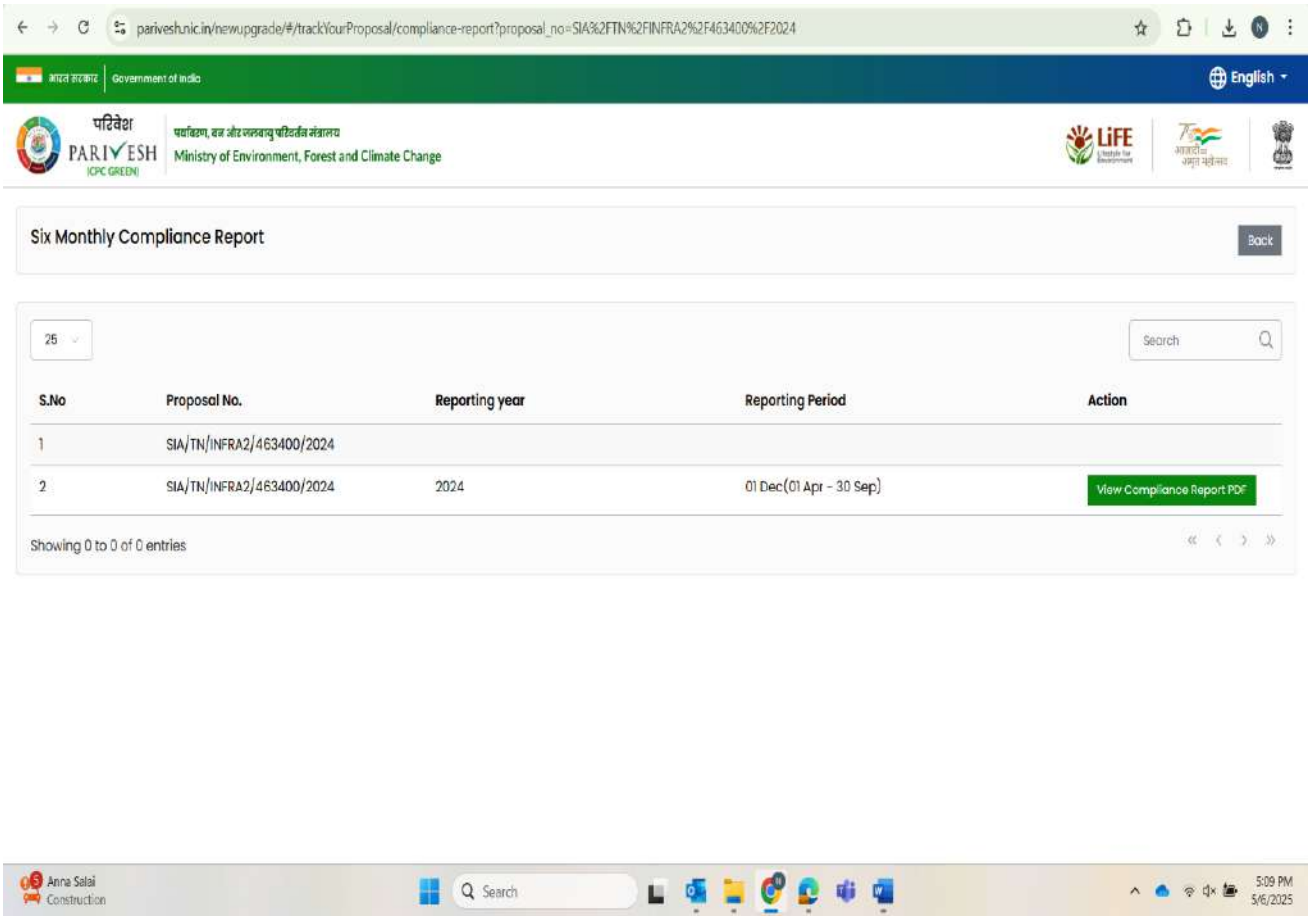
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Annexure 11

EMERGENCY EVACUATION AND DISASTER MANAGEMENT PLAN

FOR

"Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu" over an extent of 215.834 Ha. (533.11 Acres)

BY

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED

19/A, Rukmani Lakshmipathy Road, Egmore, Chennai – 600008.

AT

Villages: Soorapoondi and Vaniamallee

Taluk: Gummidipoondi

District: Thiruvallur

State: Tamil Nadu

Prepared by

HUBERT ENVIRO CARE SYSTEMS (P) LTD, CHENNAI

JANUARY 2024

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SECTION 1

1. INTRODUCTION

1.1DEFINITIONS

1.2 Definitions

Accident /Incident: An event or chain of events, which has caused or could have caused fatality, injury, illness and/or damage (loss) to assets, the

Environment, reputation or third parties.

Emergency: A sudden, abnormal or unplanned situation that requires immediate attention and may endanger human life, the environment or have an adverse effect on the building or third party assets. An emergency can be associated with a major hazard as identified in the HSE Study, fire/ explosion, medical case, natural calamities and third party intervention.

Evacuation. Evacuation is an organized, phased, and supervised withdrawal, dispersal, or removal of civilians from dangerous or potentially dangerous areas, and their reception and care in safe areas.

Assembly Point/Area: Designated safe area for gathering groups of people during an emergency.

Special Needs Populations. Individuals with physical, mental or medical care needs who may require assistance before, during, and/or after a disaster or emergency after exhausting their usual resources and support network.

1.3 PURPOSE

The purpose of an Emergency Evacuation Plan is to protect the occupants from serious injury, property loss, or loss of life, in the event of an actual or potential major disaster. A major disaster may include, but not limited to, any of the following: fire, tornado, earthquake, bomb threat, or hazardous chemical spill. In the event of a major disaster, this Emergency Evacuation Plan (EEP) describes the initial responsibilities and actions to be taken to protect all occupants until the appropriate authority responders take over.

1.4 SCOPE

It is also necessary and prudent for the protection of the occupants and staff. It is a requirement that the employer review with each employee upon their initial assignment or when the plan changes, those parts of the plan that the employee must know to protect her/himself in the event of an emergency. In addition, the written plan shall be made available for visitors to review and plan for their evacuation.

1.5 OVERVIEW

The primary objectives of this evacuation plan are to ensure that:

1. Everyone leaves the premises safely.
2. A procedure to safely evacuate individuals who cannot negotiate stairs is in place.
3. Building occupants are accounted for after an emergency evacuation.
4. Personnel are selected among building occupants, with functions to ensure plan objectives are met.

For the purpose of this Plan, the following are emergencies for which a total or partial evacuation of a building is necessary.

- Fire.
- Explosion.
- Building Air contamination.
- Severe Weather

The plan will be updated and exercised by conducting evacuation drills at least annually

This EEP is intended to communicate the policies and procedures for all occupants and contractors to follow in an emergency situation. This written plan should be made available, upon request, to occupants and other interested parties by the Emergency Coordinator.

1.6 PROJECT DESCRIPTION

State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT) is the nodal agency of Government of Tamil Nadu to ensure sustainable development of industries. The objective of SIPCOT is to establish, develop, maintain and manage industrial complexes, parks and Growth Centres at various locations across the State of Tamil Nadu.

SIPCOT has so far developed 28 Industrial Complexes including 6 Sector Specific Special Economic Zones (SEZs) in 16 Districts across Tamil Nadu. SIPCOT is the Nodal Agency for Government of Tamil Nadu to sanction and for the disbursement of Structured Package of Financial Assistance to large industrial units. The role of SIPCOT in the industrialization of the State is not only quantitative but also qualitative. Instead of just accelerating the pace of industrial growth, SIPCOT strives to ensure that disbursal of financial incentives, which resulted in the growth of industries in backward and hitherto under developed areas.

SIPCOT propose to establish an Industrial Park with Industrial housing at Soorapoondi and Vaniamallee Villages of Gummidipoondi Taluk, Thiruvallur district and Tamil Nadu State over an extent of 215.834 Ha (533.11 Acres). The Industrial Park is to accommodate industries that will not fall under category 'A' or 'B' as per EIA Notification, 2006 and amendments thereof.

SIPCOT will develop the physical infrastructure such as road, water, Industrial housing and other amenities and allot the developed plots to the potential industries based on the comprehensive assessment of Investment, technology, employment, expert, compliance to environmental regulations etc.,

1.7 PROJECT LOCATION

The project site is located at Soorapoondi Village S.No. 65/1, 181, 182, 183, 184, 185, 186, 187, 188, 189/1, 190, 192, 213pt, 214pt, 215, 216, 217, 218pt, 219pt, 220pt, 221pt, 227/1pt, 227/2pt, 227/3pt, 228/1pt, 228/2pt, 228/3pt, 235pt and Vaniamallee Village S.No. 31/1, 31/2, 31/3, 31/4, 31/5, 31/6, 36, 38/1, 41/3, 41/4, 41/12, 41/20, 142/1, 175/2, 175/3, 175/4, 176/1, 176/2, 176/3, 177, 178/1, 179, 180/1, 180/2, 180/3, 180/4, 180/5, 180/6, 181/1, 181/2, 181/3, 181/4, 182, 183, 184, 185, 188/2, 188/3, 188/4, 188/5, 189/1, 189/2, 189/3, 189/4, 197/2, 198/1, 199, 200, 201, 202, 203/1, 204/10, 205/2, 206, 207/1, 207/2, 207/3, 207/4, 207/5, 207/6, 207/7, 207/8, 207/9, 208/1, 208/2, 208/3, 208/4, 208/5, 208/6, 209, 210, 211, 212, 213pt, 214pt, 215, 216, 217/1, 218pt, 219pt, 221pt, 222pt, 223pt, 225pt, 226pt, 228/1 of Gummidipoondi Taluk, Thiruvallur District and Tamil Nadu State.

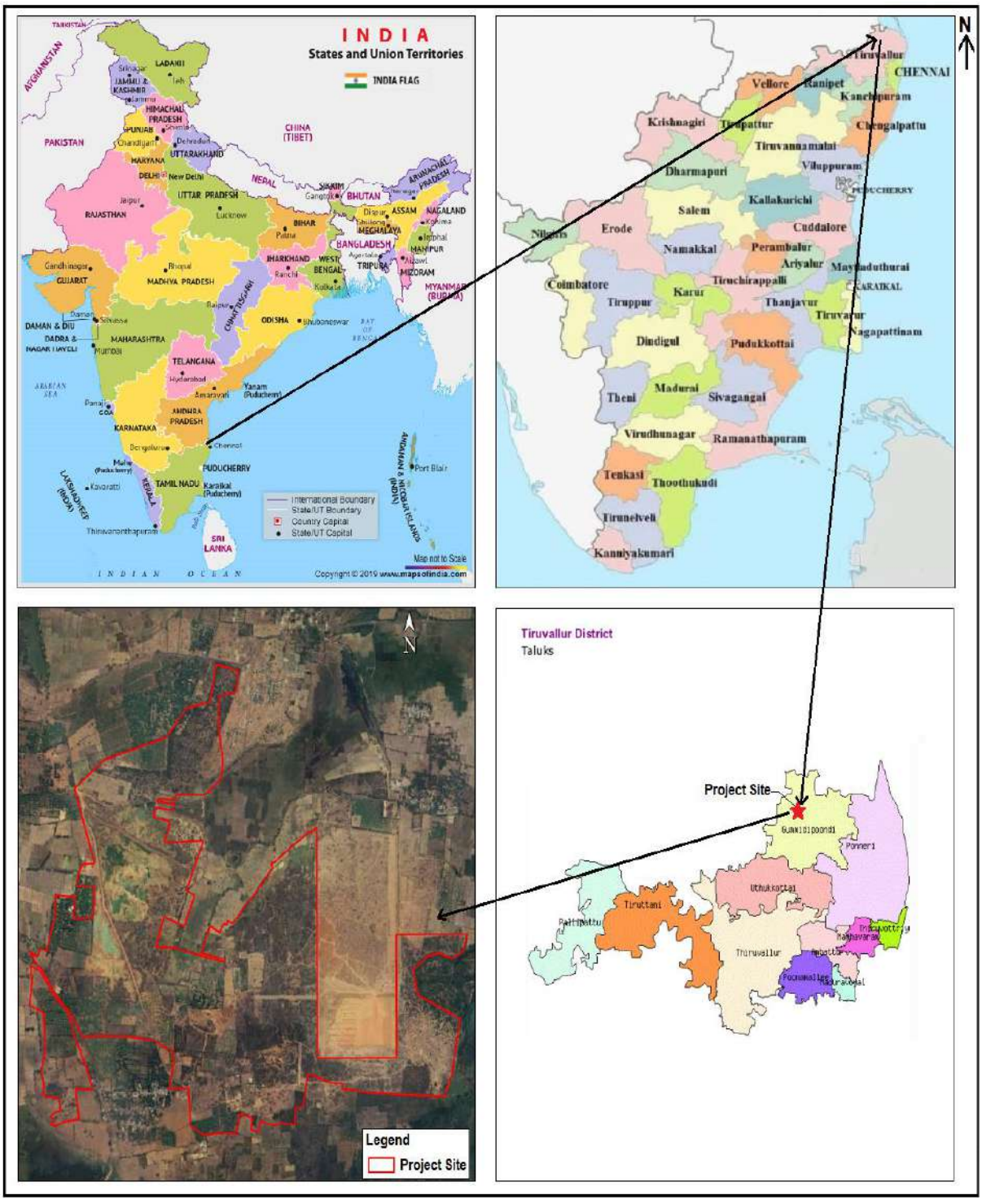
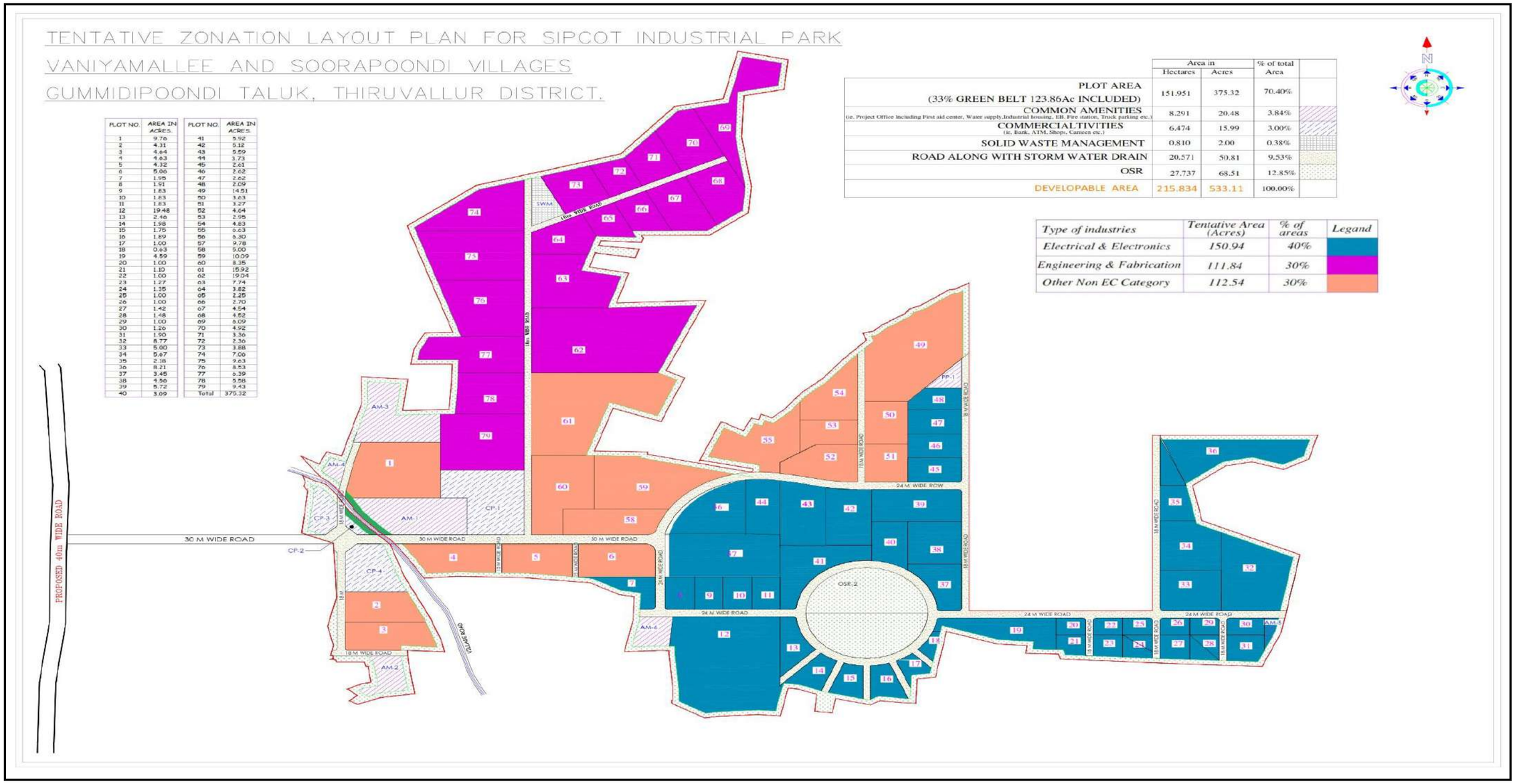


Figure 1: Location Map of the Project

1.8. PROJECT LAYOUT & ZONATION MAP



PLOT NO.	AREA IN ACRES.	PLOT NO.	AREA IN ACRES.
1	9.76	41	5.92
2	4.31	42	5.12
3	4.64	43	5.59
4	4.63	44	3.73
5	4.32	45	2.61
6	5.06	46	2.62
7	1.95	47	2.62
8	1.91	48	2.09
9	1.83	49	14.51
10	1.83	50	3.63
11	1.83	51	3.27
12	19.48	52	4.64
13	2.46	53	2.95
14	1.98	54	4.83
15	1.75	55	9.63
16	1.89	56	6.30
17	1.00	57	9.78
18	0.63	58	5.00
19	4.59	59	10.09
20	1.00	60	8.35
21	1.10	61	15.92
22	1.00	62	19.04
23	1.27	63	7.74
24	1.35	64	3.82
25	1.00	65	2.25
26	1.00	66	2.70
27	1.42	67	4.54
28	1.48	68	4.52
29	1.00	69	6.09
30	1.26	70	4.92
31	1.90	71	3.36
32	8.77	72	2.36
33	5.00	73	3.88
34	5.67	74	7.06
35	2.38	75	9.63
36	8.21	76	8.53
37	3.45	77	6.39
38	4.56	78	5.58
39	5.72	79	9.43
40	3.09	Total	375.32

	Area in Hectares	Area in Acres	% of total Area	
PLOT AREA (33% GREEN BELT 123.86Ac INCLUDED)	151.951	375.32	70.40%	
COMMON AMENITIES (ie. Project Office including First aid center, Water supply,Industrial housing, EB, Fire station, Truck parking etc.)	8.291	20.48	3.84%	
COMMERCIALTIVITIES (ie, Bank, ATM, Shops, Canteen etc.)	6.474	15.99	3.00%	
SOLID WASTE MANAGEMENT	0.810	2.00	0.38%	
ROAD ALONG WITH STORM WATER DRAIN	20.571	50.81	9.53%	
OSR	27.737	68.51	12.85%	
DEVELOPABLE AREA	215.834	533.11	100.00%	

Type of industries	*Tentative Area (Acres)*	*% of areas*	*Legand*
Electrical & Electronics	*150.94*	*40%*	
Engineering & Fabrication	*111.84*	*30%*	
Other Non EC Category	*112.54*	*30%*	

Figure 2: Project Layout and Zonation Map

1.9. PROJECT DETAILS AND EMERGENCY CONTACTS

SIPCOT has proposed to develop an IP for Engineering & fabrication / Electrical & Electronics and Other Non EC category industries with Industrial Housing over an extent of 215.834 Ha (533.11 Acres) at Soorapoondi and Vaniamallee Villages of Gummidipoondi Taluk, Thiruvallur district and Tamil Nadu State.

Table 1: Zonation Details of the Industrial Park

S. No	Industry Type	% of industrial plot area
1	Electricals and Electronics	40%
2	Engineering and Fabrications	30%
3	Other Non EC category industries	30%
	Total	**100%**

The table 1 shows the emergency contact details and other basic details of the proposed project.

Table 2: Project details and emergency contacts

FACILITY NAME	Proposed Development of Industrial Park at Virudhunagar over an extent of215.834 Ha (533.11 Acres)
LOCATION	The project is located at Soorapoondi and Vaniamallee Villages of Gummidipoondi Taluk, Thiruvallur district and Tamil Nadu State
EMERGENCY COORDINATOR	To be identified
PHONE:	To be identified
ALTERNATE EMERGENCY COORDINATOR	To be identified
PHONE:	To be identified

OPENING HOURS	
AVERAGE NO. OF MANPOWER IN THE PARK	
NO. OF STAFF OCCUPYING THE FACILITY	
EMPLOYEE POPULATION AFTER THE OFFICE HOURS	Will be identified after the occupancy of all the plots.
LOCATIONS, WHERE THE EVACUATION PLAN DRAWINGS ARE PASTED	1. Entrance of the industrial Park 2. Key Locations, within the park 3. At the gates of Individual Industry 4. SIPCOT office buildings 5. Utility Area 6. Commercial and Common Amenities Areas 7. Parking
ASSEMBLY POINTS	Nearby the high ways. Each individual industry will identify their own assembly point.
EMERGENCY TELEPHONE NUMBERS	To be identified
NEAREST HOSPITALS:	• Eguvarapalayam Govt Upgraded PHC - 1.68km(E) • Madaharpakkam Govt PHC - 3.24km (WNW) • Billakuppam Govt PHC - 3.25km (ESE) • Kannankottai Govt PHC - 5.91km (WSW) • Sathyavedu Govt Hospital - 7.67km (W) • Gummidipoondi ESI Dispensary - 7.92km (E) • Gummidipoondi Govt Hospital - 8.81 km (E) • Arani Govt Hospital – 10.03 km (SSE) • Arambakkam Govt PHC – 10.54 km (N) • Periyapalayam Govt Hospital – 11.61 km (S) • Sunnambukulam Govt PHC – 12.41 km(ENE) • Lachivakkam Govt PHC – 13.16 km (SSW) • Melmaligaipattu Govt PHC – 14.59 km (SSW)

OTHER EMERGENCY CONTACT NUMBERS	- To be identified

1.10 GENERAL PROCEDURES

It is impossible to provide specific information for all situations. There is no guarantee implied by this plan that a perfect response to disaster emergency incidents will be practical or possible. Therefore, this plan is a guide for occupants and staff to familiarize themselves with basic emergency planning, response and evaluation.

A. Pre-planning

Preparation will increase the margin of safety in an emergency. To evacuate successfully:

- Train employees/security staff in ways of assisting occupants.
- Provision of induction to the occupants through Visual Display Units and Posters.
- Inform security staff how to communicate in an emergency.
- Assign specific tasks to the employees in charge.
- Identify occupants with specific needs.
- Provide a building specific plan.
- Evacuation route maps to be pasted in the entire building. Occupants should know at least two evacuation routes. The following information is marked on the maps.

✓ Emergency and accessible exits

✓ Evacuation routes

✓ Location of fire extinguishers

✓ Fire alarm pull station location

✓ Areas first searched

B. Notification of Emergency Warning

In the event of a disaster, the warning may come from any of the following sources:

- Building smoke detection or sprinkler system, emergency siren
- A person receiving notification of a possible disaster or a building emergency should immediately sound the alarm to notify occupants. (e.g. Yell "Evacuate", pull building alarm, call other offices, etc.)
- Inform immediate supervisor who will continue notification up the Chain of Command. The building emergency alarm system is reserved for total evacuation of the building.

C. Emergency Alarms and Advisories

Sprinkler Alarm – Smoke Detection – Fire Alarm in the event of a fire, sprinkler and/or HVAC smoke detection systems will/will not activate the alarm automatically. The fire alarm monitoring team will notify police once alarm is activated. Manual alarms, pull station or break glass models, are located on each floor.

D. Emergency evacuation drills

A minimum of 2 separate emergency evacuation drills should be held annually to comply with Rules and Regulations, one announced and one unannounced. The Emergency Evacuation Team, Emergency Coordinator, Floor Wardens etc., should pre-plan these drills and properly alert building occupants prior to the drill to avoid panic and possible injury.

While conducting evacuation drills, emphasis should be placed on orderly evacuation rather than speed, and making sure occupants clear the exit doorways and proceed across the streets Emergency evacuation drills must involve and evacuate ALL OCCUPANTS without exception.

During emergency evacuation drills the Emergency Coordinator, Floor Wardens etc. will perform duties for an actual emergency evacuation. Provisions should be made for timing and evaluation of each drill.

SECTION 2

2. GENERAL GUIDELINES

2.1 Guidelines applied to this EEP

1. The Emergency Coordinator and alternate must be trained in emergency evacuation procedures. It is the responsibility of the department to train their staff accordingly.
2. All personnel must be trained in safe evacuation procedures. Refresher training is required whenever the employee's responsibilities or designated actions under the plan change, and whenever the plan itself is changed.
3. The training may include use of floor plans which clearly show the emergency escape routes included in the EEP. Floor plans and maps shall be posted at all times in main areas (i.e. offices, meeting rooms, stairwells, exit corridors etc.) to provide guidance in an emergency.
4. No visitor is permitted to re-enter a previously evacuated area until advised by the authorities.
5. Each staff member must also be trained and drilled in accordance with the evacuation plan.

2.2 Assembly Occupancies

The residential development has been assigned with an assembly point near by the exit of the facility. Assembly occupancies are areas of a facility that are designed to accommodate all the staff. The following guidelines are designed to ensure compliance of applicable codes for emergency evacuation in assembly occupancies:

- All staff must be trained and drilled in their duties and responsibilities related to emergency evacuation.
- Conducting mock drills (including fire drills and toxic release drills) to check whether the planned arrangements are working as per the required norms or not along with a few occupants.

- Testing of critical equipment
- All staff must be trained in the proper use of portable fire extinguishers, have knowledge of the facility’s fire protection systems, and know how to activate the facility fire alarm system.
- There must be one staff member to advise emergency personnel of vital information related to the emergency and any person unaccounted for at the assembly location
- A written evacuation plan must be available to all staff responsible for evacuating the facility.

SECTION 3

3. DUTIES AND RESPONSIBILITIES

3.1 Responsibilities of emergency Coordinator:

1. Obtaining and posting the layout showing "here you are" note and route evacuation maps in their facilities if need be.
2. Overseeing the development, communication, implementation and maintenance of the overall EEP for the fabrication area and office.
3. Ensuring the training of building/office staff (including themselves), Wardens and notifying all personnel of changes to the plan.
4. Maintaining up to date count of occupants, and any other personnel with assigned duties under this plan.
5. Having the count of visitor at the time of evacuation, so a head count can be made at their designated evacuation Assembly Area and information passed to the person in charge (Security officer/Emergency Coordinator) of the evacuation who is normally stationed at the Assembly Sign.
6. In the event any emergency, relaying applicable information to occupants and to the emergency department.
7. Establishing designated point at the evacuation Assembly Areas for evacuees of the facility.
8. Communicating information to the occupants of the facility in the assembly area on developments and other relevant information.
9. Be familiar with the location of emergency equipment such as first aid kits, oxygen cylinders, fire extinguishers etc.
10. Ensuring that occupants and disabled persons, if any are assisted in evacuating the premises.
11. Evaluating and reporting problems to the government authorities and/or security after an emergency event.
12. Can take on multiple roles

3.2 Responsibilities of emergency Coordinator /The Floor Wardens:

1. Ensuring that occupants have vacated the area in the event of an evacuation and for checking assigned areas prior to leaving.
2. Ensuring project layout and route evacuation maps are posted in all relevant places.
3. Participate in the development, communication, implementation and maintenance of the overall EEP for the entire building.
4. Coordinating between the other emergency coordinators on different floors, like ground and basement to ensure the training of building/ occupants and notifying all personnel of changes to the plan.
5. Maintaining up to date count with the number of occupants during the normal visiting hours.
6. Having the above list for immediate retrieval at the time of emergency to submit to the Incident Commander.
7. In the event of a fire or other emergency, take their position and direct the flow of people traffic relaying applicable information to Security, occupants, Govt. Emergency personnel and directing the flow of people traffic.
8. Communicating the flow of information between the emergency coordinators and other security/police officers etc. - after the evacuation – on developments, head count check etc.
9. Be familiar with the location of emergency equipment such as first aid kits, fire extinguishers etc.
10. Ensuring that occupants and disable persons, if any are assisted in evacuating the building.
11. Evaluating and reporting problems to the security after the emergency event
12. Can take on multiple roles

3.3 Alerting or Signalling Building Occupants in Case of Fire and other Emergencies

1. In case of a fire/smoke, security staff should actuate the nearest fire alarm box The locations of the fire alarm boxes are noted on the evacuation plans. The alarm alerts building occupants of the need for evacuation and sends a signal to Security officer notifying that there is an alarm condition in the building.
2. It may be necessary to activate additional fire alarm boxes, or shout the alarm, if people are still in the facility and the alarm has stopped sounding, or if the alarm does not sound. This can be done while exiting.
3. Persons discovering a **fire, smoky condition, or explosion** should activate the fire alarm box. Pertinent fire or rescue information should be conveyed to the emergency response personnel (Security or fire department). All emergency telephone numbers are listed at the beginning of this EEP.
4. To report an emergency, state your name, your location, and the nature of the call. Speak slowly and clearly. Wait for the dispatcher or operator to hang up first.

SECTION 4

4. EVACUATION PROCEDURES FOR FACILITY OCCUPANTS

4.1. Evacuation

When the fire alarm sounds,

- All personnel should ensure that nearby personnel are aware of the emergency and exit the facility through normal and emergency exits.
- All occupants should proceed to their designated evacuation assembly area and contact the emergency coordinator (ec) or alternate ec.
- Await further instructions from their ec, facility coordinator, emergency department or police /fire department personnel.
- All personnel should know where primary exits are located, and be familiar with the various evacuation routes available. Floor plans with escape routes, alternate escape routes, exit locations and designated evacuation assembly areas should be posted in the building.

Notes and Precautions:

- Small/Insipid fires can be extinguished only if you are trained to use a fire extinguisher. However, an immediate evacuation is essential for any and all fires occurring in the building.
- All fires, even those that have been extinguished, must be reported to the authorities concerned.
- Never enter an area that is smoke filled.

4.1.1. Evacuation Route

A map of evacuation routes will be displayed in corridor, at the entrance and inside the buildings wherever relevant. Each map will show the way to an exit, depending on where occupants are located in the facility. It will be the responsibility of the security to

inform the occupants of these evacuation routes. The person in charge shall verify that the signs are in place and up to date.

In the facility, the evacuation routes are pasted at the following places but not limited to:

- **Entrance of the industrial Park**
- **Key Locations, within the park**
- **At the gates of Individual Industry**
- **SIPCOT office buildings**
- **Utility Area**
- **Commercial and Common Amenities Areas**
- **Parking**
- **Corridors and meeting rooms of the buildings, wherever applicable.**

The following details will also be displayed along with the evacuation route.

Emergency Management Team

First Aiders (FABs are placed in supervisor's office and watchman office.)	
Emergency Vehicle/Ambulance Driver Contact Details	

4.1.1. The Evacuation Route

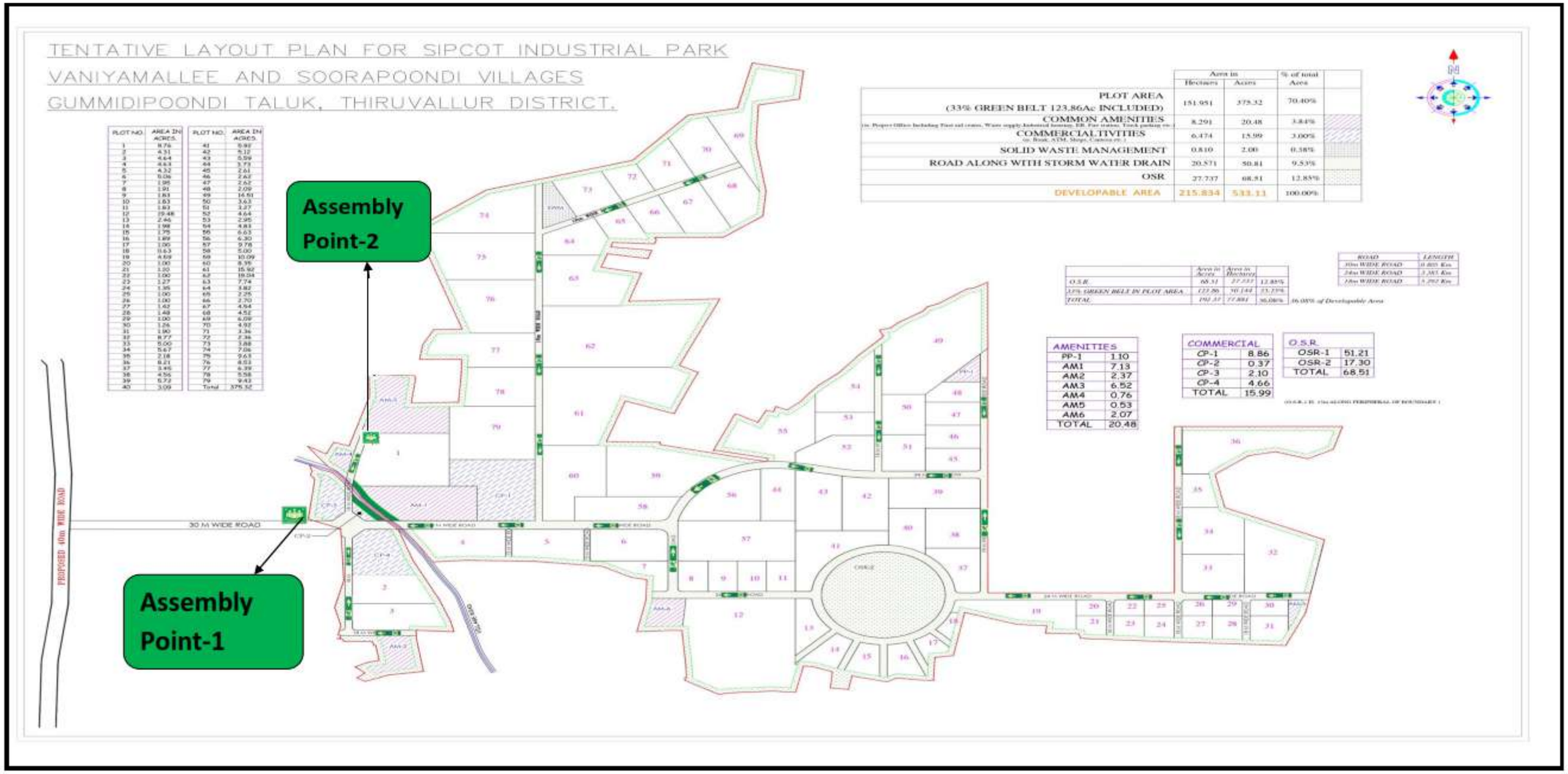


Figure 3: Evacuation Route Map

4.1.2. EVACUATION PROCEDURE

DISABILITIES

- Each person has different skills and abilities. This reality calls for specific provisions for individuals with disabilities in the event of an emergency. The occupant with a disability is responsible for informing the security officer, while entering the building, that she/he will require assistance during an evacuation. (This can be done using a checklist form) It is important not to assume that persons with obvious disabilities need assistance, or to assume what type of assistance they may need.
- Persons with disabilities must study and remain aware of the features of each facility they are in, including stairways, exits, phone locations, and elevator procedures. At times, assistance from others may be needed. Individuals with disabilities may seek assistance (escorts) from others in their classes or work areas if emergency evacuation becomes necessary.
- Assign a designated area for persons who may need assistance in evacuation.

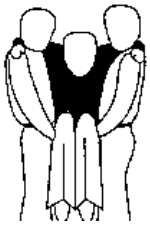
The area for rescue assistance will have direct access to an exit, where those who are unable to use stairs or who are unable to navigate the emergency route may remain.

- Most people with vision limitations will be familiar with their immediate area at a given time. In the event of an emergency, tell the individual how and where to exit.
- Have the person take your elbow and escort them, as you walk, tell the person where you are and advise them of any obstacles. When you reach safety, orient the person to where they are and ask if any further assistance is needed.
- Since a person with impaired hearing may not perceive audio emergency alarms, an alternative warning technique is required. Two methods of warning are:
    1. Write a note advising them of the emergency and the nearest evacuation route.

2. Turn the light switch on and off to gain attention, and then indicate through gestures or in writing what is happening and what to do. It may be prudent to escort the person with a hearing impairment as you leave the building.

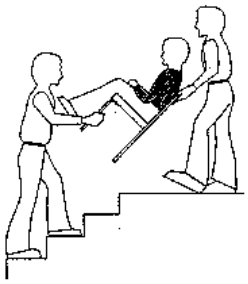
- Security Officer should discuss emergency procedures with individual occupants who have obvious disabilities, those who have informed them of any special needs. It must be determined what assistance they may need and how they best to communicate.
- If a person remains in an area other than a designated area of rescue, then she/he must inform evacuating building occupants of their location.
- In an emergency, do not hesitate to inform others you need assistance, if your regular assistant is absent. Inform people unfamiliar with your needs how to assist you.

TWO-HANDED SEAT CARRY



The two-handed seat carry is an option to move a physically impaired individual when two people are available. The assistants lock arms such that the disabled person is supported at the shoulders and thighs (see figure).

CHAIR CARRY



The chair carry method is an option for individuals using a wheelchair or with limited ability. One assistant holds the chair backrest while the second assistant, located at the lower position, faces the disabled person and holds the front legs of the chair (see figure).

4.1.3. RESPONDING TO EMERGENCIES

Each emergency requires a different response. In bomb threat, hazardous material spill or natural calamity emergencies, occupants may be sheltered in place. At other times, evacuation is the appropriate action. Following is information to summon emergency personnel and/or evacuate the building:

A. To summon assistance, telephone 108 to report an accident or life-threatening situation.

B. Fire Procedures: To evacuate the building upon seeing smoke/fire or hearing the fire alarm.

1. Verbally warn occupants in the immediate area, (such as, yelling "FIRE!") and activate alarm upon discovery of smoke or fire. The signal for a building
2. Wide evacuation will be the sound of the fire alarm. All occupants are required to evacuate the building, unless otherwise assigned or authorized to remain by the emergency agency in charge.
3. Give your name, building room number and type of emergency.
4. Stay on the line until you have given all necessary information.
5. Use Stairways. When out, move away from building to a prearranged assembly area for a head count. Leave walks and drives open for fire and emergency responders.
6. If necessary for a safe, orderly evacuation, activate fire extinguishers or firehouse. At the discretion of the individual, use extinguisher if trained and assigned to do so.

Notify:

A. Fire-fighters if you suspect someone may be trapped inside the building.

B. Immediate supervisor and proper agencies for any needed services.

1. Designated personnel involved in critical operations may remain on the site.

Work Area Name	Job Title	Assignment

2. If emergency situation will not permit any of the personnel to remain, contact the following offices:

Police	100
Fire	101
Ambulance	102
Disaster force	108

4.1.4. ACCOUNTABILITY PROCEDURES FOR EMERGENCY EVACUATION

Designated Evacuation Assembly Areas:

Groups working together on or in the same area should meet outside the building in the prearranged designated Evacuation Assembly Area. Security Officers and Emergency Coordinators will conduct head counts once evacuation has been completed and report to the Incident Coordinator. The Emergency coordinator of the property is responsible to do an immediate head count **(not later than 2 minutes)** and report to the person in charge of the building evacuation (Incident Commander) who is normally from Security unless the Authorities have taken over the situation.

Again, all trained personnel should be made aware of occupants with disabilities that may need extra assistance and of hazardous areas to be avoided during emergencies. Before leaving, the Floor Warden or Emergency Coordinator are to check other enclosed spaces in the facility for other visitor/staff who may be trapped or otherwise unable to evacuate the area, and convey this information to emergency personnel.

Housekeeping

- Good housekeeping will be the responsibility of ALL occupants.
- Waste materials are to be discarded in their proper places.
- All aisles and exits will be kept clear.
- Access areas to fire extinguishers will be kept clear.
- Emergency telephone numbers will be posted on all telephones.

- All fire/smoke doors are to remain closed and unobstructed from their intended function of retarding the spread of fire and smoke.
- Maintenance of Fire Equipment and Systems
- Refer questions and problems regarding the fire sprinkler and/or smoke detector systems, fire extinguishers and their locations to the Person in charge.

4.2. POST-EMERGENCY EVALUATION

Following any emergency, a post-emergency evaluation will be conducted to evaluate the cause, employee and outside department actions, and to determine what corrective or preventative actions are necessary.

Post Evacuation Activities

- Provide a system to account for all disabled occupants `in designated Evacuation Assembly Areas
- Ensure access to appropriate facilities (i.e., beds, toilet, and other necessities) are monitored and made available to individuals with disabilities. Affected individuals may require bladder bags, insulin, pumps, walkers or wheelchairs.
- Ensure emergency personnel are trained in the use of such equipment.
- Establish procedures for further evacuation of disabled individuals in case the incident expands

4.15 Training and communications

- Emergency coordinator and his/her assistant must be trained in emergency evacuation and response with additional trainings on emergency care such as First Aid/CPR. Each occupant should know when an evacuation is necessary and what his/her role is in carrying out the plan. Occupants should also have made aware what is expected of them during an emergency to assure their safety.
- On exiting the facility occupants are required to report immediately to their emergency coordinator at the Assembly area for a head count. It is vital that this is

done within minute so that the information can be passed to the Emergency/fire department as they arrive on the scene.

- A method of training building occupants in the requirements of the emergency evacuation plan is to give all staff a thorough briefing and demonstration by conducting periodic emergency evacuation drills.

Exercises

Local drills, table top exercises, functional exercises, and full-scale exercises shall periodically include an evacuation scenario based on the hazards faced by this jurisdiction.

SECTION 5

5. DISASTER MANAGEMENT PLAN

An emergency in the industrial area has potential to cause serious injuries or loss of live or extensive damage to the property and / or environment and serious disruption both inside and / or outside the works. In such cases sometimes outside agencies are required to call for help in handling the situation. The causative factors like equipment failure, human error, earthquake, sabotage etc. will normally manifest in various forms viz. Fire and Structure collapse etc.

Despite best design and layout of office, safe operating procedures and various preventive measures the possibility of a disaster cannot be totally ruled out. During this event timely and organized action must be taken to control the situation and to minimize the damage or loss to the office, human beings and environment. Hence the need of a proper "Emergency Preparedness and Response Plan (EPRP)". Such plan gives the guidelines for employees, contractors, transporters and Visitors etc. The EPRP not only defines the responsibilities but also inform about prompt rescue / evacuation / co-ordination operations and some more.

5.1. On Site Disaster Management Plan

5.1.1. Emergencies

An emergency is a situation, which may lead to or cause a large-scale damage or destruction to life or property or environment within or outside the site. Sometimes the Emergency results into uncontrollable situations and leads towards disaster. Such an

unexpected severe situation may be too great for the normal workforce of SIPCOT as well as Individual Industries in the park.

i. The possible emergencies are as follows

- Fire.
- Electrical fire/short circuiting.
- Natural calamities-earthquake, flood, cyclone.
- Structural collapse.
- Medical Emergency.

5.1.1. ACTION PLAN TO VARIOUS EMERGENCIES

a) FIRE

In case of any fire incident the following steps are to be followed by the building occupants:

- Be concerned about your own safety as well as that of others.
- Inform others by verbal signal: "FIRE, FIRE, FIRE".
- If the fire is controllable by nearby fire extinguishing equipment and you know firefighting, control the fire without undue personal risk.
- Shut off the electrical supply quickly.
- Use fire hydrant system point located nearer to the affected area.
- If you can't extinguish it alone, activate the fire alarm/MCP and get help.
- Inform to Safety and security team-nearest helpdesk
- Inform to manager and site controller
- Make certain you know your escape route and assembly point.
- Do not panic.
- People not involved in firefighting operation directly, should quickly move through emergency exit routes & assemble at nearest emergency assembly point.
- For any other assistance – Call emergency number.

b) ELECTRICAL FIRE

In case of any electrical fire occurred due to short circuiting or any other reason the following procedure needs to be followed by the occupants:

- Switch off the main switch.
- Activate the fire alarm/MCP and get help.
- Before using a fire extinguisher make sure that it is not outdated, and it is of Carbon dioxide type.
- Don't use water to extinguish the fire if the main line is live.
- Inform to site controller/location Head
- Make certain you know your escape route and assembly point.
- Do not panic. Inform Utility or security person
- Inform to Admin and site controller
- Make certain you know your escape route and assembly point.
- Do not panic.
- People not involved in firefighting operation directly, should quickly move through emergency exit routes & assemble at nearest emergency assembly point.
- For any other assistance call emergency number.

c) NATURAL CALAMITIES

In case any natural disaster like earthquake the following procedure should be followed by the occupants:

i) When you are inside the building & earthquake is felt:

- Take a safe position (e.g. Under the table, concrete wooden beam, concrete column, door bracket.
- Do not use lift. Do not stand near doors, gate
- If you are driving, or on road, go to open space

- Keep away from walls, building, and electric pole/wires.
- Keep away from building, sheds, electric wires
- Keep cool & keep others cool.

After the earthquake:

- There can be more such jerks immediately hence go to open space.
- Close connections of LPG, Electricity, water.
- Do not smoke, ignite matchstick, or put on main switches.
- Do not touch electric wires.
- Drink clean water.
- Do not go near partially collapsed buildings.
- Keep roads clear for traffic.

i. In case of flood:

- Be ready to evacuate as directed by the Emergency Coordinator.
- Follow the recommended primary or secondary evacuation routes.
- Climb to high ground and stay there.
- Avoid walking or driving through flood water.
- Avoid walking or driving through flood water.
- For further help, contact emergency.

ii. In case of cyclone alert (before cyclone hits):

- Leave early before your way to high ground or shelter gets flooded
- Do not delay and run the risk of being marooned
- If your house is securely built on high ground take shelter in the safe part of the house. However, if asked to evacuate do not hesitate to leave the place.
- Board up glass windows or put storm shutters in place.
- Provide strong suitable support for outside doors.

- If you do not have wooden boards handy, paste paper strips on glasses to prevent splinters. However, this may not avoid breaking windows.
- Get extra food, which can be eaten without cooking. Store extra drinking water in suitably covered vessels.
- If you have to evacuate the house move your valuable articles to upper floors to minimize flood damage.
- Ensure that your hurricane lantern, torches or other emergency lights are in working condition and keep them handy.
- Small and loose things, which can fly in strong winds, should be stored safely in a room.
- Be sure that a window and door can be opened only on the side opposite to the one facing the wind.
- Make provision for children and adults requiring special diet.
- If the centre of the cyclone is passing directly over your house, there will be a lull in the wind and rain lasting for half an hour or so. During this time do not go out; because immediately after that, very strong winds will blow from the opposite direction.
- Switch off the electrical mains in your house.
- Remain calm

Post cyclone measures:

- You should remain in the shelter until informed that you can return to your home.
- You must get inoculated against diseases immediately.
- Strictly avoid any loose and dangling wires from lamp posts.
- If you have to drive, do drive carefully.
- Clear debris from your premises immediately.
- Report the correct losses to appropriate authorities

d)Structural Collapse

- Raising the emergency alarm.
- Evacuate the building immediately and assemble at Assembly Point
- Isolate & Barricade if necessary.
- Head count to be taken by the security or emergency response team.
- Rescue Operation to be carried out in case of missing personals.
- Hospitalize the victims in case of injury.
- Inform the disaster management force immediately.

e) MEDICAL EMERGENCY

- Provide information to Emergency Response Team immediately.
- Move injured person to hospital
- Local legal requirement to be carried out.
- Information to be given to branch manager.
- Contact the nearest medical centre.

5.2. Off Site Emergency Plan

5.2.1. Introduction

An offsite emergency arising out due to any incident, which has the potential to cause serious damage or loss of life beyond the project area. The snowballing of a small incident into a major disaster and the subsequent effects on the life and property can be mitigated if there is a readily implementable emergency preparedness plan available with the concerned district authorities. In order to be in a state of preparedness to respond to the accidents/disasters and minimize their adverse impacts on the offsite population, requires an offsite emergency plan to be prepared by the District Magistrate for every district in consultation with The Chief Inspector of Factories & with the members of District Crisis Group.

To provide resources and methods for effective control of emergencies arising out due to the fire, explosion or toxic release involving hazardous chemicals; To prevent emergency that may turn into disaster; To minimize damage to the property, people and the environment; Effective rescue operation of public and treatment of the injured; Synchronized action from all the coordinating agencies with least possible delay; To bring back normal situation in the least possible time;

5.2.2. Objectives

The main objectives of the Off-site Emergency Plan are:

- To provide resources and methods for effective control of emergencies arising out due to the natural calamities, Terrorists attacks, structural collapse, explosion or fire;
- To prevent emergency that may turn into disaster;
- To minimize damage to the property, people and the environment;
- Effective rescue operation of public and treatment of the injured;
- Synchronized action from all the coordinating agencies with least possible delay;
- To bring back normal situation in the least possible time;
- To provide authoritative information to the news media and government agencies;
- To train the people and the concerned to act efficiently and with confidence in an emergency.

5.2.3. Purpose

An off-site emergency plan is an important element of overall Occupational Safety & Health (OSH) Programme but also it is an important tool to mitigate emergency situations arising out due to accidents. The lack of an emergency plan could lead to severe losses such as financial collapse of the area or even casualties. Since emergencies will occur, preplanning is necessary to prevent possible disaster. An urgent need for rapid decisions,

shortage of time, and lack of resources and trained personnel can lead to chaos during an emergency. Time and circumstances in an emergency mean that normal channels of authority and communication cannot be relied upon to function routinely.

Being prepare for emergencies means making sure that the necessary equipment and supplies are readily available and that various government/private authorities/agencies know what to do when something unplanned happens such as a natural calamities, , fire or injury. These procedures must be documented and all stakeholders should have the opportunity to practice their emergency response skills regularly.

The purpose of this plan is to describe the activities to be carried out in case of a major emergency or a disaster, assist concerned agencies in planning for hazardous materials incidents and to serve as a guide & training aid. This plan is developed for the Govt. agencies and the industries to help them in understanding their roles in case of an emergency.

The purpose of this plan is also to outline the procedures for immediate action, if major off-site emergencies occur involving Major Hazard installations in the district. Every Major Accident Hazard installation has its Onsite Emergency Plan to deal with an emergency inside the premises of the factory. If an emergency arises beyond the resources of the factory, they have an obligation to seek assistance from the Government.

5.2.4. Scope

This plan is developed basically for the agencies under the Govt. to make them understand their roles in case of an emergency. Also the crisis groups and the industries are expected to be clear in their roles and responsibilities while dealing with any disaster.

The plan will apply to the following emergency scenario:

- Any disaster outside/ beyond the Emergency team of the project;

- Any emergency situation that is uncontrolled by Emergency team of the project;
- Or any hazards that may extend to the other parts of Thiruvallur District.

5.3. The State Disaster Management Plan

The State Disaster Management Plan provides for an Approach that looks at the four possible phases of a disaster in an overlapping manner. Each phase requires a different orientation and different responses to the situation on hand. The four phases are depicted in the form of a diagram below and will provide the framework for the entire plan.

Non Disaster - by very definition would be when normalcy prevails and this setting provides the best possible opportunity to prepare to face any eventuality. During the Non-Disaster phase, existing and potential risks need to be identified and action taken to reduce potential casualties and damage from disasters.

Pre-Disaster - this phase is the narrow window when the impending disaster is going to happen and there is high possibility of panic or steps that would help to mitigate the impact of the disaster. During this phase, the focus is on steps necessary for safeguarding lives and assets of the area likely to be affected by taking appropriate action so as to reach out to potential damage areas in a prompt and coordinated manner.

During Disaster - when the disaster is running its course. This phase will test the preparedness and training being given to a community for a holistic and effective approach to attend to the immediate needs of the affected population in minimum time possible even while the disaster is on. Fast response, mobilization, organization of search and rescue, safety to life and property and other disaster mitigation steps will determine the effective response at this stage.

Post Disaster - when the disaster has struck and the impact of the disaster requires several urgent steps to restore normalcy - both in the immediate and long-term. This phase will work on building back the community so as to attain normalcy in the community utilizing both local resources and the government machinery in the most effective manner within the shortest possible time. Recovery, Rehabilitation and Building Back Better (BBB) are the key words.

5.4. Community Based Disaster Management (CBDM)

While planning to manage or tackle disasters, it is natural to assume that a Government run approach would be the norm. The fact remains that in every disaster, the local community is the first to respond along with any departmental team that is the first to arrive. Hence, disaster preparedness and response are to be seen as not solely the work of Government but also in harnessing the efforts of affected community, local volunteers, citizens, organizations and businesses. Every citizen has an active and important role to play prior to, during and after major emergencies and disasters. Therefore, the Disaster Management Plan seeks to set in place a process that seeks to develop and implement a locally appropriate and locally "owned" strategy for disaster preparedness and risk reduction with the machinery and resources of the Governmental at all levels.

Local communities are usually the first to be involved in search and rescue activities as well as in providing emergency treatment and relief to their families, friends and neighbours. Therefore, Government ideally in partnership with other community organizations, can play an important role in improving the skills and knowledge of these "spontaneous" disaster responders by providing them with education and training in preparedness measures, basic rescue techniques, first aid and emergency treatment.

Community-based disaster management (CBDM) – Approaches

Community-based disaster management (CBDM) is an approach that is incorporated in the State Disaster Management Plan that will contribute to building the capacity of

communities to assess their vulnerability to both natural and man-made hazards and develop strategies and resources necessary to prevent and mitigate the impact of identified hazards as well as respond, rehabilitate, and reconstruct following its onset.

Adequate awareness and preparedness of the community to respond to any such situation can be crucial in mitigating damage and suffering. Therefore, there is no better alternative to community and local level capacities for disaster response. The state and the district administration shall enhance the community's resilience against through various measures:

- As first responders, in providing necessary education and training to the community to enhance their capacity and resilience.
- Provide necessary resources and support for disaster risk reduction at the community level.
- Identify the most vulnerable groups at risk.
- Prepare local specific risk mitigation and management plans with the support of the community.
- Constituting Disaster Management Committees and Teams at Village, Taluk/ Block, District and State levels and train them appropriately.
- Conduct annual mock drills / rehearsals at the community level

Hence, the State Disaster Management Plan for Tamilnadu will work to harness local resources and manpower in the community while mobilizing Government machinery and resources in tackling a disaster. All line departments in Government will work to integrate their response with their immediate stakeholders and that of the local Community and this can also be done through training, knowledge and mock drills during non-disaster times.

A strong and resilient community with a pro-active State Government that will converge its resources to mitigate any disaster is the purpose of this Plan.

Tamil Nadu State Disaster Management Agency (TNSDMA)

In order to implement, co-ordinate and monitor the activities of disaster management in the State, and to implement the decisions taken by the State Disaster Management Authority, an executive agency viz., Tamil Nadu State Disaster Management Agency [TNSDMA] has been established in the year 2013. The Agency strives to reduce the negative impact of all kinds of disasters through vibrant disaster management machinery so that loss of lives and damage to property and critical infrastructure is minimized. It coordinates with all departments and agencies to converge Disaster Risk Reduction with

department-specific Disaster Management activities namely plans, policies, prevention, mitigation and post disaster activities. The SDMA declares an emergency situation in case of a State level disaster and also announces the conclusion of disaster management activities.

District Disaster Management Authority

The District Disaster Management Authority is similar in functioning to the State Level Authority and is the planning, coordinating and monitoring body at the district level. Headed by the District Collector, the DDMA plays the role of an anchor within the district for all disaster management activities both during the non-disaster period and when there is an actual disaster happening. Meetings are held periodically during the year to ensure that alertness and preparedness levels are maintained within the district. The Members of District Disaster Management Authority are:

- District Collector
- District Panchayat Secretary – Co. Chairperson
- Superintendent of Police (SP)
- Personal Assistant (General) to the Collector District Revenue Officer (DRO) Chief Executive Officer
- Additional Collector Development
- Joint Director (Health)
  - The DDMA shall monitor the district preparedness throughout the year and particularly review non-disaster activities and preparedness of the departments to handle situations.
  - DDMA is required to assess the situation and give directions to the department heads in the district for better handling of any disaster situation.
  - The DDMA calls for outside support if necessary and will keep the SDMA/SEC informed about the handling of the situation
  - Process requests for the NDRF/Army or any other specialized help requested by the government.
  - During a disaster, the DDMA operates through the DEOC which is similar to the SEOC in functioning.

Roles and Responsibilities of Government Departments/Officials

District Collector

All departments of the State Government, including the Police, Fire Services, Public Works, Irrigation, Rural Development and others shall work in a coordinated manner under the leadership of the district collector during disasters. The overarching role of the DC in handling the situation during a disaster is highlighted below.

- On taking charge, a District Collector shall hold a full-fledged session within ten days with all key members of the District department team heads to:
  a. Take stock of the vulnerability of the district to different types of disasters
  b. (To review the districts preparedness for tackling disasters
  c. To examine the Disaster Management Plan for the district and
  d. To Ensure a robust Decision Support System (online and offline communication system) is in place in the DEOC and connected with the Sub-Division, Taluk / Block and Zone level.
     - Access funds from the State Government for activities and ensure that a training calendar is in place for Disaster Management;
     - Coordinate all disaster response activities with the DEOC and ensure that the Incident Response Teams are in place;
     - Stay well-connected with Community leaders through the line departments and their respective stakeholders at the field level;
     - Give directions for the release and deployment of resources available with any department of the Government, Local Authority, public / private sector etc. in the District;
     - Ensure that the NGOs carry out their activities in an equitable and non-discriminatory manner;
     - Ensure provision for accountability of personnel and a safe operating environment;
     - Mobilize experts and consultants in the relevant fields to advise and assist as may deem necessary

  In the event of a Disaster - the District Collector is required to send a report immediately, to the State Emergency Operation Centre (SEOC) that will indicate the severity of the disaster, action being taken; resources required in addition to the resources on hand; logistics for delivering relief and any other information found necessary. Thereafter, a daily situation report that will give a clear picture to the State administration needs to be sent.

Taluk/Block/Zone level Disaster Management Committee

A Disaster can effectively be handled only to the extent that adequate delegation has taken place and involvement of all wings of government are clear about their respective roles. A Taluk/ Block level disaster management committee is necessary and shall be formed under the direction of the District Collector. This Committee will monitor the development and implementation of taluk level disaster management plans.

Village/Ward Level Disaster Management Committee

This Committee is perhaps the most important to be formed and requires maximum involvement of the District Collector in ensuring that there is no bias in its constitution. Every disaster requires maximum involvement and wholehearted cooperation of the village/ward level citizens and there needs to be good representation. The Panchayat, VAO, local institutions, NGOs, youth clubs and the like should be encouraged by the administration to be involved in the event of an emergency. They are the first responders to garner disaster response and an effort will be taken to make the communities strong and vibrant in proactively tackling the disasters.

- This will include to play a key role in organizing training (first aid, search and rescue, extrication from damaged buildings, road clearance, firefighting)
- raising awareness (about hazards, risks, disaster response)
- community drills (annual drills for disaster response in the community)
- equipping the community with minimum resources (first aid kit, extrication equipment, lifejackets, lifebuoys, rope and the like)
- Awareness towards the safe drinking water to the community as it prevents Epidemic outburst.

then that community is bound to be strong and vibrant in proactively tackling the disaster

Emergency Ambulance Service System:

Government of Tamil Nadu with the assistance of GVK-EMRI, provides free ambulance services to those in need of urgent medical assistance throughout the state. 24X7 emergency ambulance services are made available on dialling a single toll free emergency number '108'. During a disaster, they play a very important role as they are in easy access to any location in the state.

Departments & Directorates:

- Each Department and its Directorate play an important role during a disaster situation and also initiates disaster response activities with the least possible delay. Some of the activities are listed below:
- Establishing a Control room by respective line departments with contact number and emails. The control room will direct and coordinate all activities related to Disaster Management pertaining to the respective departments. Appoint a nodal contact person for Disaster Management who will also be a part of the technical cell.
- Establish a Technical /Special Cell to take care of the following:
- Evaluate department specific DM plans prepared by various levels and wings
- Convergence of Mitigation measures into development activities or Projects of the department
- Monitoring the implementation

Fire & Rescue Services Department

Fire and Rescue Services Department of the Government of Tamil Nadu is entrusted with the task of firefighting and rescue operations in times of emergency. Apart from firefighting, this department also undertakes rescue activities and has saved hundreds of people, marooned in floods, and caught in the debris of fallen buildings, road and rail accidents and other natural and man-made disasters.

Armed Forces (AF)

The armed forces have historically played a major role in emergency support functions and this includes search and rescue operations, health and medical facilities and transportation - especially in the immediate aftermath of a disaster. Armed Forces are deployed often when the crisis situation is far beyond the State Government to manage and agencies need help due to the magnitude of the disaster. The District Collector on making an immediate assessment at the time of a disaster - may place the request to the Chief Secretary who then makes the official request to the Armed Force.

National Disaster Response Force (NDRF)

For the purpose of a specialized response to a threatening disaster situation or a disaster that's happening, the National Disaster Management Act has mandated

the constitution of a National Disaster Response Force (NDRF). In Tamil Nadu, the NDRF is located at Arakkonam, Vellore District, which maintains a close liaison with the designated State Governments and are available in the event of any disaster situation.

State Disaster Response Force (SDRF)

State Disaster Response Force (SDRF) team has been constituted with a strength of 80 Police Personnel comprising 1 Deputy Superintendent of Police, 3 Inspectors of Police, 6 Sub-Inspectors of Police and 70 Police Personnel from other ranks on OD basis from Armed Police, Chennai to TNCF. They are involving in conducting evacuation, rescue activities in disaster situation in the state. They are trained in disaster response techniques such as detection and location; Extrication and access; Fire Fighting; Medical and First Aid

Other Departments/Groups/Agencies

- Home Guards
- National Service Scheme (NSS)
- National Service Scheme (NSS)
- National Service Scheme (NSS)
- Coast Guard
- Nehru Yuva Kendra Sangathan (NYKS)
- Indian Red Cross Society
- Industrial Associations
- Airport Authority of India (AAI)
- Indian Railways
- India Disaster Resource Network (IDRN)
- National Disaster Management Authority
- National Disaster Management Authority
- India Meteorological Department (IMD)
- Indian National Centre for Ocean Information Services (INCOIS), Hyderabad
- National Remote Sensing Centre
- Indian Institute of Technology, Madras (IITM)
- Anna University, Chennai
- NGOs

Likely Hazards and Preventive Measures

The following hazards and its mitigation measures and emergency plans are given in Risk Assessment and On-site DMP of this report.

Disasters	Agencies
Cyclone/Hydro-meteorological	India Meteorological Department
Earthquake	India Meteorological Department
Floods	Central Water Commission
Drought	Ministry of Agriculture
Landslides	Geological Survey of India
Tsunami	Indian National Centre for Ocean Information Services

Natural Calamities like cyclones, Flood, Tsunami, Earthquake and manmade disasters like Structural Collapse, Stampedes, Terrorists attacks, fire etc.

Nodal Agencies for Early Warning

The Following Nodal agencies in the Government of India are mandated for early warning of different natural hazards.

The major response measures which have to be undertaken cutting across different types of disasters are listed below for guidance of the concerned agencies. The emergency support functions deal with the first response whenever a disaster strikes. The major areas of emergency response activities and the respective responsible agencies are listed below:

S.No.	Emergency Response Activities	Responsible Agency
1	Activation of Trigger mechanism	SDMA, DDMA
2	Risk Communication	RADM&M dept., SEOC , DEOC, DIPR, Media and tele communication networks
3	Evacuation of People	RADM&M, Urban and local bodies, Police, Home Guards, Fire and Rescue services, SDRF, NDRF, Armed Forces, Volunteers, "108" ambulance, community and others
4	Shelter arrangement for rescued people	RADM&M, Urban and Local bodies.
5	Traffic control and diversions	Traffic Police , Home Guards , Volunteers
6	Cordoning off the disaster affected areas	SDRF , NDRF, Police , Home Guards and Volunteers
7	Law and Order maintenance	Police and Home Guards
8	Search and Rescue operation	Fire and Rescue Services, SDRF, NDRF, Police etc.,
9	Provision of First Aid / Trauma Management	Health department, Local bodies and RED Cross
10	Relief camps and basic amenities in shelters	RADM&M, Health Department & Local bodies
11	Identification of dead and injured	RADM&M, Police, Health department and local bodies
12	Arrangement of medical support for causalities	Health Department
13	Impact & Resource Assessment	RADM&M, Urban and local bodies, Experts
14	Clearance of the disaster affected areas	RD, PWD, Highways & Urban Local bodies
15	Prevention of epidemics & organizing health camps	Health Department and local bodies
16	Need based Establishment of Temporary Shelters	RADM&M and local bodies
17	Mobilizing Resources for relief & restoration	RADM&M, Civil supplies, RD&PR and Urban Local bodies
18	Clearance of debris / Solid waste	SDRF, F&RS, PWD, Highways Department and local bodies
19	Restoration of Communication & Road networks	PWD, High ways, Urban / Rural Local bodies, RD&PR, TANGEDCO
20	Provision of Water	TWAD,CMWSSB and local bodies
21	Restoration of Electricity	TANGEDCO
22	Resumption of Transportation	Road Transport and High ways
23	Food Arrangements	RADM&M , Civil supplies and local bodies
24	Provision of Relief supplies	RADM&M , Civil supplies, RD&PR and Urban Local bodies
25	Temporary mortuary / Dead body disposal	Health, RADM&M and local bodies
26	Evacuation and shelter arrangement for cattle/Livestock	Animal Husbandry Department, Blue Cross, Local bodies and Volunteers
27	Carcass disposal	Animal Husbandry
28	Back to normalcy	RADM&M, all line departments

SECTION 6

6. PLAN DEVELOPMENT AND MAINTENANCE

- SIPCOT is responsible for developing and maintaining this plan. Recommended changes to this plan should be forwarded as needs become apparent.

- This plan will be revised annually and/or updated time to time in accordance the authorities

- Departments and agencies assigned responsibilities in this plan are responsible for developing and maintaining SOPs covering those responsibilities.

APPENDIX A

General Evacuation Procedures

1. The following is a generalized step-by-step evacuation procedure to be followed:
2. The primary evacuation alarm is the fire alarm which will either be a loud ringing bell or continuous wailing siren AND /OR announcement to evacuate**.** All are required to evacuate a building when the Alarm is sounded.
3. Upon hearing an alarm or being instructed to evacuate, immediately

- Prepare to follow the instructions of the Floor Wardens /Office emergency coordinator, Security Officers or Emergency Response Team members.
- Walk; **do not run,** to the nearest exit stairwell. These are indicated by green lighted ceiling signs with arrows directing you to the exit stairwell.
- Close all doors/windows behind you as you leave to confine the spread of fire.
- Upon hearing an alarm or receiving the command to evacuate, evacuate the building using emergency exits stairwells to the ground floor and exit outside of the building to a designated evacuation assembly area.
- Unless a stairwell is smoke filled, exit stairwells are to be used as the primary evacuation route.
- While in the exit stairway, stay to the right and use the handrail, proceed in single file and evacuate in a calm manner.
- Do not congregate in or block access roads or entrances to the building that may be needed for emergency vehicles.
- Report any incidents, injuries, hazards or unusual conditions noted at the time of leaving the building to your supervisor/ emergency coordinator or security.
- Identify disabled individuals in the building and assist with their relocation and/or evacuation. Notify the security/ office coordinator, if evacuation of a disabled individual is required.

- As soon as you reach your designated assembly area report to the person (Office coordinator) taking the Head count
- Once clear of the building, report directly to your designated assembly area and Emergency Coordinator. Assembly coordinators or Floor Wardens are to perform a head count of all occupants in their building evacuation area and inform the concerned officer of occupants unaccounted for. After reaching your assigned evacuation assembly area, *do not* attempt to return to your area or inside the building until the **"all clear"** signal has been given by the Authority.
- If the designated assembly area is unsafe or inaccessible, evacuate the building to outside areas that are clear from trees and the building itself. Wait for instructions from your supervisor, security or fire or police personnel.
- The on-scene employee with the highest degree of emergency response preparedness will assume charge until relieved by Security or fire or police.

APPENDIX B

EMERGENCY ORGANISATION

Emergency Organization

Emergency Organization requires to be entered in the format similar as given below.

Map: Emergency Organization

EMERGENCY ORGANISATION CHART				
Designation	Name	Phone (O)	Phone (R)	Phone (M)
EMERGENCY CONTROL CENTRE (ECC) SITE MAIN CONTROLLER				
Emergency Coordinator				
OTHER KEY PERSONNEL (OKP)				
Alternate Emergency Coordinator				
Safety Person in Charge				
INCIDENT CONTROLLERS (IC)				
Visiting Hours				
DEPUTY INCIDENT CONTROLLERS (Dy. IC)				
Visiting Hours				
Communications				
Transport & Logistics				
EXTERNAL AGENCIES				
Near-by Hospital				

EMERGENCY ORGANISATION CHART				
Designation	Name	Phone (O)	Phone (R)	Phone (M)
News paper				

APPENDIX C

Escape, Evacuation & Rescue (EER) Plan

Escape

Non-essential personnel have to escape through safe escape route towards the nearest assembly point.

Evacuation

All non-essential personnel who have assembled at the safe assembly points have to be evacuated from the site, then noted down as part of head count and evacuated to temporary shelter outside.

Rescue

On receipt of Incident information, any trapped personnel have to be rescued. This requires rigorous training. The rescuers must first ensure their own safety. There should be at least two rescuers for each victim to be rescued.

The following procedure may be followed:

- Pre plan the rescue operation as to who will hold shoulders and who the legs of the victim,
- Ensure appropriate gas mask and other PPE is worn by each rescuer,
- See the nearest windsock and approach the site of victim from upwind. If no PPE is available nearby, then take a deep breath, hold breath and approach,
- Undertake rescue operation swiftly and confidently,
- Check victims first needs
- Impart first aid as appropriate, including CPR and oxygen breathing,
- Call for ambulance and shift victim to nearest doctor/hospital.

APPENDIX D

IMPORTANT CONTACT DETAILs

TAMILNADU STATE DISASTER MANAGEMENT AGENCY

Designation	Office	Mobile	Fax	E.Mail ID
Chairman and Project Co-ordinator	28411552 Ext101	9445000444	28546624	tnsdma.chairman@gmail.com
Director (Disaster Management	28528745/ 28411552 Ext.103	9444446881	28592921/ 28411654	relief@tn.nic.in cdrrp.osd@gmail.com
Joint Director (Disaster Management)	28411552 Ext.105	9444446559		tnsdma.jd@gmail.com
Deputy Director (Public Relations)	28411552 Ext.106	9444446558		tnsdma.ddpr@gmail.com
Assistant Director (P&M)	28411552 Ext.105	9445461709		tnsdma.adpm@gmail.com
Assistant Director (SP)	28411552 Ext.108	9444446885		tnsdma.adsp@gmail.com
Assistant Director (RR)	28411552 Extension No.109	9444446882		tnsdma.adrr@gmail.com

INDIAN METEOROLOGICAL DEPARTMENT

Designation	Office	Mobile	Fax	E.Mail ID
Deputy Director General	28276752	9445246157	28276752	sbthambi@gmail.com
Director	28229860	9444765065	28271581	metmds@bsnl.in, srramanan56@gmail.com
Scientist (Seismic Section)	28252002	9840460410		amudha2003@gmail.com
Control Room	28271951 28230091 28230092 28230094 Ext. 240			

CONTROL ROOMS

Office	Phone /Mob	Fax
Chief Secretary's Control Room	25671388/25670372	25677128
Secretariat EPABX	25665566	
Revenue Department	25671821	25671821
State Relief Commissioner/Addl Chief Secretary and Commr of Rev Admn	28593990/28593988/1070 (Toll Free)	28410577
Director General of Police	28447777	28447703
Commissioner of Police (Control Room)	23452359-362	23453364/28555034
Inspector General of Police and Dy. Commandant General, Home Guards	9443312255/25385740 (R)/28441617(O)	28443498
Public Works Department	28410402-10/Ext 194	
Highways Department	28544370	28529798
Fire and Rescue Services Department	28294132,30,35,65	28294188
Indian Coast Guard	25395016/23460404	23460404
Fisheries	24341757	

LINE DEPARTMENTS

Designation	Office	Mobile	Fax	E.Mail ID
Corporation of Chennai Principal Secretary/ Commissioner of Corporation	25619200/ 25381330	9840111106/ 9445419966	25383962	commissioner@ chennaicorporation.gov.in
Home Guards IGP and Director of Civil Defence & Dy.Cmt. Gen. Home Guards	28441617	9443312255	28443498	bkrawl@hotmail.com
Fire and Rescue Service Additional Director General of Police Fire and Rescue Service	28294129	944000755		fireserv@tn.nic.in rckudawla@reddifmail.com
Control Room	28554176/ 309 /11/13/16		28550931	Fire_camp@gmail.com
Public Works Department EIC (WRO)	28525351	9444031951	28594148	eicwrotn@yahoo.co.in
CE (Chennai Region)	28523007	9443476626	28523007	cecwropwd@yahoo.com
Health Department Director of Public Health and Preventive Medicine	24320802	9489048909	24323942	dphpm@rediffmail.com
Director of Medical and Rural Health Services	24343271/ 24364755		24343271	dmrhs.tn@nic.in

Fisheries Department Director of Fisheries	24320791	9444212223	24335585	tnfisheries@tn.nic.in
Rural Development and Pt. Raj Department Commr. of Rural Devlp and Pt.Raj	24323794/ 24338690	9788395555	24343205	drdchamber@gmail.com
Agriculture Department Director of Agriculture	28524894	9751534567	28551763	diragriculture@tn.nic.in
Animal Husbandry Dept. Director of Animal Husbandry & Veterinary Services	24338714	9445001100	24323784 24321412	anh.tn@nic.in
Director Municipal Administration Dept. Director of Municipal Administration	28513259	9445029555	28411364	tncma@nic.in
Director of Town Panchayat	25340352	9003090099	25358742	dtp@tn.nic.in
Registrar Department Registrar of Cooperative Societies	28364848	9445434556	28364867	rcs@tn.nic.in

Director of Handlooms and Textiles	25341204	9578605888	25341084	dirhandlooms@yahoo.co.in
CMWSSBMD, CMWSSB	28459000	9444072746	28458181	cmwssb@md2.vsnl.net.in
Education Department Director of School Education	28278796	9443110845	28232580	dirsedu@tn.nic.in
Director of Collegiate Education	28212090	9751237730	28275094	tndceoffice@gmail.co.in
Commissioner of Technical Education	22352299	9444343536	22201514	tndote@gmail.com
Metropolitan Transport Corporation Secretary to Government and Chairman, Managing Director	25671475 23455833	24482010	25670083 23455830	tmsec@tn.gov.in emtcedp@dataone.in
Industries and Commerce Department	044-22341646			
Tamil Nadu Agricultural University	0422-661125			
Institute of Remote Sensing (IRS) Anna University	044-22301197		22358191	dirirs@annauniv.edu
ELCOT	65512300		24330612	

ARMED FORCES

Office	Designation	Office	Fax	Mobile
Army	Col.	044-25316105(Di) 044-25316205 (off)	25316256	9444076956
Navy	Commodore Naval Officer (i/c) (TN) & Pondicheery	25396488/ 22392196	25391389	
Air force	SQN Leader	22392196/ 22560156	22398070	9840338648
Coast Guard	Commandant	23460/424 25672425	23460456	
NDRF	Commandant	04177-246269	04177-246594	
SDRF Control Room	ADGP (Operations) Manager	25362665		9444954422 9498107100

IMPORTANT CONTACT DETAILS- THIRUVALLUR DISTRICT

DISTRICT LEVEL OFFICERS

Table 3: IMPORTANT CONTACT DETAILS-THIRUVALLUR DISTRICT

DESIGNATION	EMAIL ADDRESS	MOBILE NO	LANDLINE NO
District Collector	collrtlr@nic.in		044-27661600
Superintendent of Police	sptvlr@gmail.com		044-27666555
District Revenue Officer	drotlr@nic.in	9445000902	044-27662222