

**HALF YEARLY ENVIRONMENTAL CLEARANCE  
COMPLIANCE REPORT**

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

*for*

**“ Developoment of Vallam Vadagal Industrial Park- II  
including Industrial Housing facility ”**

*at*

**Vallam A and Vallam B Villages, Sriperumbudur Taluk,  
Kancheepuram District,  
Tamil Nadu.**

**EC OBTAINED Vide Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022  
dated: 02.02.2022.**

*Submitted by*



**M/S. STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LTD  
19/A, Rukmani Lakshmiathy Road,  
Egmore, Chennai-600008.**

*Prepared by*



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

**November 2024**

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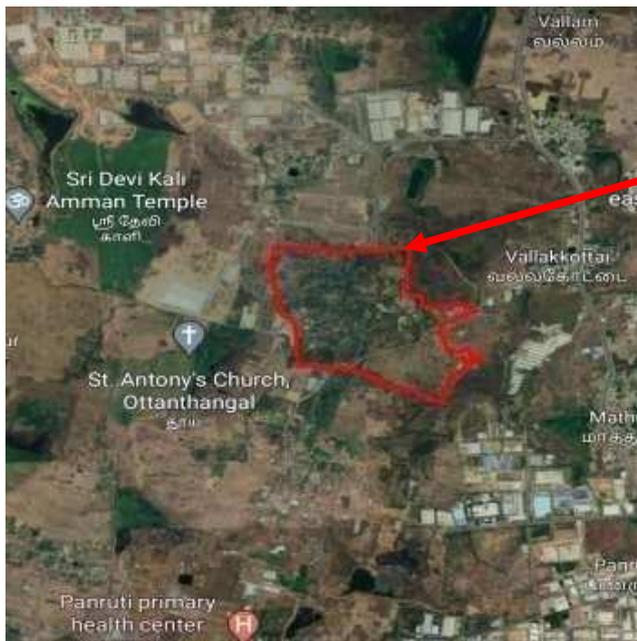
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## 1. PROJECT DETAILS

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Name of the Project</b>   | Expansion & change in concept of Development of Vallam Vadagal Industrial Park II, by including Industrial Housing facility for the employees of Vallam Vadagal IP - II in an area of 131.73 Ha (325.36 Acres)<br><br>(Exclusively for industries which does not require EC neither A nor B category Construction of Industrial Housing Facility with built up area 2,07,736.10 sq.m. comprising 3120 No. of units by SIPCOT). |
| <b>Name of the Proponent</b> | M/s. State Industries Promotion Corporation of Tamil Nadu Ltd.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Location</b>              | Vallam A and Vallam B Villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.                                                                                                                                                                                                                                                                                                                                        |
| <b>EC. No</b>                | EC22B039TN177183 dated 09/02/2022 SEIAA Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dated: 02.02.2022. Enclosed as <b>Annexure-1.</b>                                                                                                                                                                                                                                                                                          |
| <b>Total Plot Area</b>       | 131.73Ha (325.36 Acres)                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Water Requirement</b>     | <b>Total water requirement:</b> 5763 KLD<br><b>Fresh water:</b> 2094.5 KLD<br><b>Recycled water:</b> 3668.5 KLD<br><b>Fresh water Source:</b> Chembarambakkam Lake                                                                                                                                                                                                                                                             |
| <b>Project Cost</b>          | Rs.1040 Crores.<br><br>(Rs.360 Crores for Industrial Park and Rs 680 Crores for Industrial Housing facility).                                                                                                                                                                                                                                                                                                                  |

## 2. LOCATION MAP



### 3. SITE PHOTOGRAPHS



## 4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

### SEAC Specific Condition:

| S.NO | CONDITIONS                                                                                                                                                                                                   | STATUS OF COMPLIANCE                                                                                                                                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.                                 | All the member Industries will be mandated to provide STP and to reuse the treated water as per norms. Acknowledgement copy of the letter submitted to SEIAA stating that SIPCOT will not propose STP for the Industrial Park is enclosed as <b>Annexure – 10</b> . |
| 2.   | The project proponent shall submit flood inundation certificate and shall fix the level according to the conditions issued in the certificate.                                                               | <b>Condition noted.</b>                                                                                                                                                                                                                                             |
| 3.   | The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SEIAA.                                                                       | All the member units will be mandated to follow applicable rules and guidelines                                                                                                                                                                                     |
| 4.   | The height of the stacks of DG sets shall Be provided as per the CPCB norms.                                                                                                                                 | <b>Condition will be complied.</b><br>All the member units will be instructed to follow applicable rules and guidelines.                                                                                                                                            |
| 5.   | The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-W aste Management Rules 2016, as amended for disposal of the E waste generation within the premise. | <b>Condition will be complied.</b><br>All the member units will be instructed to follow applicable rules and guidelines.                                                                                                                                            |
| 6.   | The proponent shall make proper arrangements for the disposal of the treated water from the proposed site for Toilet flushing. Green belt development & OSR and no treated water be let out of the premises. | SIPCOT shall mandate all member units to have their own ETP with zero liquid discharge system and to handle their own domestic wastewater and to reuse the treated water as per the prescribed standards.                                                           |

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| 7.  | The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Condition will be complied.</b> Individual industries shall comply with.          |
| 8.  | The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Condition will be complied.</b>                                                   |
| 9.  | The purpose of Green belt around the Project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species Should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be include in the layout out plan to be submitted for CMDA, DTCP approval. The total green belt area should be minimum 15% of the total area and the small shall not be used for car parking/OSR. | Tentative layout plan showing the green belt area is enclosed as <b>Annexure-14.</b> |
| 10. | The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the pubic usage and as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Condition will be complied.</b>                                                   |

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|     | committed.                                                                                                                                                                                                                                            |                                                                                                                                 |
| 11. | The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed                                                                                             | <b>Condition Noted.</b>                                                                                                         |
| 12. | The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. as amended for the generation of Hazardous waste within the premises. | It is an infrastructure development project. All the member units will be instructed to follow applicable rules and guidelines. |
| 13. | No waste of any type to be disposed off in any other way other than the approved one.                                                                                                                                                                 | <b>Condition noted.</b><br>All the member units will be instructed to comply with.                                              |
| 14. | The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.                                                                                                                                                                       | <b>Condition complied.</b><br>Sanitary Napkins disposal facility is provided in Industrial Housing Facility.                    |
| 15. | All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.                                                | <b>Condition will be complied.</b><br>All the member units will be instructed to comply with.                                   |
| 16. | The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.                                                 | <b>Condition Noted.</b>                                                                                                         |
| 17. | The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post – COVID period.                                        | <b>Condition Noted.</b>                                                                                                         |
| 18. | Solar energy should be at least 10% of total                                                                                                                                                                                                          | <b>Condition noted.</b>                                                                                                         |

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|    | energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.                                                                                | All the member units will be instructed to follow applicable rules and guidelines. |
| 19 | As per the MoEF&CC Office Memorandum F.No. 22-6512017-1A.1 Dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP and revised CER shall be furnished before placing the subject to SEIAA. | <b>Condition complied.</b>                                                         |

**SEIAA Additional Conditions:**

| S.NO | CONDITIONS                                                                                                                                                           | STATUS OF COMPLIANCE                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | All the construction of Buildings shall be energy efficient and conform to the green building norms.                                                                 | All the member units will be instructed to follow applicable rules and guidelines.                                                                                          |
| 2.   | The proponent shall provide the adequate play area for the children within the premises.                                                                             | <b>Condition noted.</b>                                                                                                                                                     |
| 3.   | The proponent shall provide the adequate health care facility within the premises.                                                                                   | <b>Condition will be complied.</b>                                                                                                                                          |
| 4.   | The proponent shall provide the adequate parking facility within the premises with clear traffic plan.                                                               | <b>Condition will be complied.</b>                                                                                                                                          |
| 5.   | All the eateries provided within the premises shall be maintained in hygienic way.                                                                                   | <b>Condition noted.</b>                                                                                                                                                     |
| 6.   | The proponent shall ensure that no treated or untreated trade effluents/sewage shall be discharged outside the premises under any circumstances.                     | SIPCOT shall mandate all member units to have their own ETP with zero liquid discharge system and to handle their own domestic waste water as per the prescribed standards. |
| 7.   | The proponent shall ensure that the activities should not result in temperature rise, nor lead to rise in carbon dioxide and other gases that odd to climate change. | All the member units will be instructed to follow applicable rules and guidelines.                                                                                          |
| 8.   | All the trees, biodiversity and water bodies within the premises should be protected.                                                                                | <b>Condition noted.</b>                                                                                                                                                     |

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| 9.  | Action should be initiated to cover 33% of the total project area under green belt development with native species.    | <b>Condition will be complied.</b>                                                 |
| 10. | All mitigation measures as suggested in the EIA / EMP and disaster management plan to be strictly adhered.             | <b>Condition noted.</b>                                                            |
| 11. | The activities should in no way cause emission and built-up Green House Gases (GHC)                                    | All the member units will be instructed to follow applicable rules and guidelines. |
| 12. | All action to be eco friendly and support sustainable management of the natural resources within and outside premises. | <b>Condition noted.</b>                                                            |

**PART A-Common Conditions Applicable For Pre-Construction, Construction and Operational Phases**

| S.NO | CONDITIONS                                                                                                                                                                                                                                                           | STATUS OF COMPLIANCE                                                                     |
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| 1.   | Any appeal against this environmental clearance shall lie within the Hon'ble National Green Tribunal, if preferred within a period of 30 days as prescribed under the section 16 of the National Green Tribunal Act, 2010.                                           | No appeal lies against this environmental clearance.                                     |
| 2.   | The construction of STP, Solid Waste Management facility, E-waste Management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later                                            | <b>Condition noted.</b><br>Construction shall be carried out as per the approved layout. |
| 3.   | The Environmental safeguards contained in the application of the proponent mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be Implemented in the letter and spirit. | <b>Condition noted.</b>                                                                  |

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| 4. | All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.                         | <p><b>Condition noted.</b></p> <p>All the member units will be instructed to obtain all necessary statutory clearances and approvals.</p> <p>Consent to Establish copy is enclosed as <b>Annexure-2.</b></p>                                    |
| 5. | The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.                                                                                                                                                                                                                                                                          | <p><b>Condition Noted.</b></p>                                                                                                                                                                                                                  |
| 6. | A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.                                                                                                                                                                                                                                                                                                                                                               | <p><b>Condition is being complied.</b></p>                                                                                                                                                                                                      |
| 7. | The environmental statement for each financial year ending 31st March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by E-mail. | <p><b>Condition is being complied.</b></p> <p>Acknowledgment copy for submission of Form-V is enclosed as <b>Annexure -3.</b></p> <p>Screenshot showing Environmental Statement uploaded in the website is enclosed as <b>Annexure – 4.</b></p> |

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| 8.  | The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite Data / information / monitoring reports.                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Condition will be complied.</b>                                        |
| 9.  | "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Condition complied.</b><br>CTE copy is enclosed as <b>Annexure- 2.</b> |
| 10. | In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Condition Noted.</b><br>There is no change in scope of the project.    |
| 11. | The conditions will be enforced inter-alia, under the provisions of the Water(prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act1957,National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India Hon'ble High Court of Madras and any other Courts of Law, including the Hon 'ble National Green Tribunal relating to the subject matter. | <b>Condition Noted.</b>                                                   |
| 12. | The Environmental Clearance shall not be cited for relaxing the other applicable Rules to this project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Condition noted.</b>                                                   |
| 13. | Failure to comply with any of the conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SIPCOT shall comply with all the applicable                               |

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|     | mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (protection) Act, 1986.                                                                                                                                                                                                                                                                                                                                                                   | conditions of EC.                                                                                                                                                         |
| 14. | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored. | <b>Condition is being complied.</b><br>The compliance report including monitoring data has been uploaded on our website and screenshot is enclosed as <b>Annexure -4.</b> |
| 15. | The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance                                                                             | <b>Condition Noted.</b>                                                                                                                                                   |
| 16. | The Environmental Clearance does not imply that the other statutory/administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and betaking decisions independently of the Environmental Clearance.                                                                                                                                                                                                                    | <b>Condition Noted.</b>                                                                                                                                                   |
| 17. | The SEIAA, TN may alter/modify the above                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Condition Noted.</b>                                                                                                                                                   |

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|     | conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                           |
| 18. | The Environmental Clearance does not absolve the applicant/proponent of his obligation/ requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.                                         | <b>Condition Noted.</b>                                                                                                                                                                                                                                                                                                                                                                   |
| 19. | Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for everyone tree that is cut) should be done with the obligation to continue maintenance.                                                       | <b>Condition Noted.</b>                                                                                                                                                                                                                                                                                                                                                                   |
| 20. | A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed. | <b>Condition complied.</b><br>Separate environmental management cell has been assigned and will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as <b>Annexure -5.</b> |
| 21. | The EMP cost shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.                                                                       | <b>Condition noted.</b>                                                                                                                                                                                                                                                                                                                                                                   |
| 22. | The project activity should not cause any disturbance & deterioration of the local Bio diversity.                                                                                                                                                        | <b>Condition will be complied.</b>                                                                                                                                                                                                                                                                                                                                                        |

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| 23. | The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.                                                                                                                                      | <b>Condition Noted.</b>                                                                                                   |
| 24. | All the assessed flora & fauna should be conserved and protected.                                                                                                                                                                                                                                                                      | <b>Condition Noted.</b>                                                                                                   |
| 25. | The proponent should strictly comply with, Tamil Nadu Government Order (Ms)No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding Ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.                                       | <b>Condition Noted.</b><br>All the member units will be instructed to comply with.                                        |
| 26. | As per MoEF& CC, Gol, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the operation, if the project site is located within 10KM from National Park and Sanctuaries. | <b>Condition is not applicable.</b><br>Since there are no Notified Parks /Sanctuaries within 10 km form the project site. |
| 27. | Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.                                                                                                                                                                                                                  | <b>Condition Noted.</b>                                                                                                   |
| 28. | The safety measures proposed in the report should be strictly followed.                                                                                                                                                                                                                                                                | <b>Condition will be complied.</b><br>All the member units will be instructed to comply with.                             |

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| 29. | The Developer shall ensure that no allotment letter sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006. | <b>Condition noted.</b>                                                                                                                                                                                                                                                                  |
| 30. | The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.                                                                                                                                                                                                                                                                    | <b>Condition Noted.</b>                                                                                                                                                                                                                                                                  |
| 31. | The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise Control measures to achieve the standards prescribed by the TNPCB.                                                                                                                           | <b>Condition noted.</b><br>All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards. All the member units will be instructed to follow all applicable rules / guidelines. |
| 32. | The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No.84 dated 25/06/2018 on banning of one time use on and throw away plastics.                                                                                                                                                                                                | <b>Condition noted.</b><br>All the member units will be instructed to follow all applicable rules / guidelines.                                                                                                                                                                          |
| 33. | The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtaining the CTE from TNPCB.                                                                                                                                                                                                                                               | <b>Condition complied.</b><br>Land use classification certificate has been obtained.                                                                                                                                                                                                     |

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| 34. | The CER fund shall be utilized as per the office memorandum of MoEF&CC dated 01.05.2018 before obtaining CTO from TNPCB.                                                                                   | <b>Condition Noted.</b>                                                                                                                                                                             |
| 35. | The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.                                                                | All the member units will be mandated to obtain all the necessary statutory clearances and approvals as applicable.                                                                                 |
| 36. | The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.                                                                                       | <b>Condition noted.</b>                                                                                                                                                                             |
| 37. | The proponent shall provide Rain Water Harvesting pits so as to recharge the Ground water table.                                                                                                           | <b>Condition Noted.</b>                                                                                                                                                                             |
| 38. | Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.                                                                                   | All the member units shall comply with. All the member units will be instructed to follow applicable rules and guidelines.                                                                          |
| 39. | It is the sole responsibility of the proponent that the treated sewage disposed for Greenbelt development/ avenue plantation should not pollute the soil/ groundwater/ adjacent canals/ lakes/ ponds, etc. | All the member units will be instructed to comply with.                                                                                                                                             |
| 40. | The developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade Effluents.                                  | <b>Condition will be complied.</b><br>All the member units will be mandated to provide ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards. |
| 41. | The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rules, 2016 as amended and E-Waste Management Rules, 2016.   | All the member units will be instructed to follow applicable rules and guidelines.                                                                                                                  |
| 42. | There shall be no discharge of effluent outside the Industrial Park at any time.                                                                                                                           | <b>Condition will be complied.</b><br>All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and not to discharge                                        |

|     |                                                                                                                                                                                                    |                                                                                    |
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|     |                                                                                                                                                                                                    | effluent outside the IP.                                                           |
| 43. | The Developer shall mandate the member units of the Industrial Park to install adequate APC measures/Acoustic to achieve air emissions standards within Permissible limits prescribed by the CPCB. | All the member units will be instructed to follow applicable rules and guidelines. |

**PART - B - SPECIFIC CONDITIONS - PRE CONSTRUCTION PHASE:**

| S.NO | CONDITIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | STATUS OF COMPLIANCE                                                                                                                                                                                                                                                                                                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN. | <b>Condition complied.</b><br>Newspaper advertisement copy is attached as <b>Annexure – 6.</b><br>The copy of the press release has been forwarded to the Regional Office of the Ministry of Environmental and Forests located at Chennai and SEIAA- TN and acknowledgement for the same is enclosed as <b>Annexure -7.</b> |
| 2.   | In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.                                                                                                                                                                                                                                                                                                                                                                                                              | There is no scope in the change of project.                                                                                                                                                                                                                                                                                 |
| 3.   | A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.                                                                                                                                                                                                                                                                                                                                                                                            | <b>Condition Complied.</b><br>The proof of submission of EC copy to Local Body is enclosed as <b>Annexure - 8.</b> The clearance letter also uploaded on SIPCOT website. The screenshot is enclosed as <b>Annexure - 9.</b>                                                                                                 |

|     |                                                                                                                                                                                                                                                                                 |                                                                                                                                   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 4.  | The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc. before commencement of the work. | <b>Condition noted.</b><br>Individual member units will be instructed to obtain all necessary statutory clearances and approvals. |
| 5.  | All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.                                                                                        | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with.                           |
| 6.  | Design of buildings should be conformity with the Seismic Zone Classifications.                                                                                                                                                                                                 | <b>Condition noted.</b><br>All the member units will be instructed to comply with their approvals / clearances.                   |
| 7.  | The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.                                                                                                                                      | <b>Condition will be complied.</b><br>All the member units will comply with necessary approvals / clearances.                     |
| 8.  | No construction activity of any kind shall be taken up in the OSR area.                                                                                                                                                                                                         | <b>Condition noted.</b>                                                                                                           |
| 9   | Consent of the local body concerned should be obtained for using the treated Sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.                                                              | <b>Condition Noted.</b><br>All the member units will comply with necessary approvals / clearances.                                |
| 10. | The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.                                                                                                                          | <b>Condition is not applicable.</b><br>Site does not fall in CRZ area.                                                            |
| 11. | The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.                                                                                                                                    | <b>Condition is not applicable.</b><br>Proposed project is an industrial park.                                                    |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                             |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. | The project proponent shall ensure the level of basement shall be above Maximum flood level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Condition noted.</b><br>All the member units will be instructed to comply with.                                                                                                                                          |
| 13. | The proponent shall prepare completion plans showing Separate pipelines marked with different colors with the following details <ul style="list-style-type: none"> <li>i. Location of STP, compost system, underground sewer line.</li> <li>ii. Pipe Line conveying the treated</li> <li>iii. Effluent for green belt development.</li> <li>iv. Pipe Line conveying the treated effluent for toilet flushing</li> <li>v. Water supply pipeline</li> <li>vi. Gas supply pipe line, if proposed</li> <li>vii. Telephone cable</li> <li>viii. Power cable</li> <li>ix. Storm water drains, and</li> <li>x. Rain water harvesting system, etc. and it shall be made available to the owners</li> </ul> | <b>Condition is not applicable for the project</b><br>Since it is Industrial Park. Request letter has been submitted to SEIAA, TN for exemption of this condition. Acknowledgement copy is enclosed as <b>Annexure-10</b> . |
| 14. | A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Condition will be complied.</b><br>All the member units will be instructed to comply with.                                                                                                                               |
| 15. | The present land use surrounding the project site shall not be disturbed at any point of time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Condition Noted.</b>                                                                                                                                                                                                     |
| 16. | The greenbelt area shall be planted with indigenous native trees.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Greenbelt will be developed with native indigenous species.                                                                                                                                                                 |
| 17. | Natural vegetation listed particularly the trees shall not be removed during the Construction/operation phase. In case any trees are likely to be disturbed, shall be Replanted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Condition Noted.</b>                                                                                                                                                                                                     |
| 18. | During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Condition Noted.</b>                                                                                                                                                                                                     |
| 19. | The Provisions of Forest conservation Act                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | All the member units will be instructed to                                                                                                                                                                                  |

|     |                                                                                      |                                                         |
|-----|--------------------------------------------------------------------------------------|---------------------------------------------------------|
|     | 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated. | follow applicable rules and guidelines..                |
| 20. | There should be Fire fighting plan and all required safety plan.                     | All the member units will be instructed to comply with. |
| 21. | Regular fire drills should be held to create awareness among owners/ residents.      | All the member units will be instructed to comply with. |

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

**1. Construction Schedule:**

| S.NO | CONDITIONS                                                                                                                                     | STATUS OF COMPLIANCE    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| i    | The Project proponent shall have to furnish the probable date of Commissioning of the project supported with necessary bar charts to SEIAA-TN. | <b>Condition noted.</b> |

**2. Labour Welfare:**

| S.NO | CONDITIONS                                                                                                                                                                                                                                                                                                                                                                 | STATUS OF COMPLIANCE                                                                                 |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| i    | All the laborers to be engaged for construction should be screened for health and adequately treated before and during their employment on the Work at the site.                                                                                                                                                                                                           | <b>Condition noted and will be complied.</b> All the member units will be instructed to comply with. |
| ii   | Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective Measures, if needed. | <b>Condition noted and will be complied.</b> All the member units will be instructed to comply with. |
| iii  | Periodical medical examination of the workers engaged in the project Shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.                                                                                                                                                 | <b>Condition noted.</b> All the member units will be instructed to comply with.                      |

|  |                                                                                                   |  |
|--|---------------------------------------------------------------------------------------------------|--|
|  | The workers shall be provided with personnel protective measures such as masks, gloves, boots etc |  |
|--|---------------------------------------------------------------------------------------------------|--|

### 3. Water Supply:

| S.NO | CONDITIONS                                                                                                                                                                                                                                                                                                                             | STATUS OF COMPLIANCE                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| i.   | The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD.                                                                                                                                                                                                   | Fresh Water requirement will be met from Chembarambakkam lake. GO regarding the same is enclosed as <b>Annexure-12</b> .      |
| ii.  | Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. | <b>Condition not applicable.</b><br>Local labours will be employed for the project. There will not be any housing for labour. |
| iii. | Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of wastewater shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.                     | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with.                       |
| iv.  | Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.                                                                                                                                                                                                      | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with.                       |
| v.   | Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.                                                                                                                                                                | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with.                       |

#### 4. Solid Waste Management:

| S.NO | CONDITIONS                                                                                                                                                                                                                                        | STATUS OF COMPLIANCE                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| i.   | In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be composted with biodegradables.                                                                              | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| ii.  | House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016. | Not applicable it is an infrastructure development project.                                             |
| iii. | Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.                                                                                                  | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| iv.  | No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.                                                                                                                               | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| v.   | E-waste shall be disposed through Authorized vendor as per E- waste(Management and Handling) Rules, 2016 and subsequent amendment.                                                                                                                | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |

#### 5. Top Soil Management:

| S.NO | CONDITIONS                                                                                                                                         | STATUS OF COMPLIANCE                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| i.   | All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site. | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |

#### 6. Construction Debris disposal:

| S.NO | CONDITIONS                                                                                                                                                                                                                        | STATUS OF COMPLIANCE                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| i.   | Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |

|     |                                                                                                                                                                                                                                                             |                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|     | precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.                                                                      |                                                                                                         |
| ii. | Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dumpsites for such materials must be secured so that they should not leach into the adjacent land/lake/ stream etc. | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |

#### 7. Diesel Generator sets:

| S.NO | CONDITIONS                                                                                                                                                                                                                                                                | STATUS OF COMPLIANCE                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| i.   | Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed there on. | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| ii.  | The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.                                                                        | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| iii. | The acoustic enclosures shall be installed at all noise generating equipment such as DG sets, air conditioning systems, cooling water tower etc.                                                                                                                          | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |

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

| S.NO | CONDITIONS | STATUS OF COMPLIANCE |
|------|------------|----------------------|
|------|------------|----------------------|

|      |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                               |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i.   | Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.                                                                                                                                 | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with.                                                                       |
| ii.  | Ambient air and noise levels should conform to residential standards Prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.                                                     | <b>Condition is being complied.</b><br>All the member units will be instructed to comply with. Ambient Air and Noise monitoring reports are attached as <b>Annexure - 13.</b> |
| iii. | Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per DTCP norms. The traffic department shall be consulted and any cost-effective traffic regulative facility shall be met before commissioning. | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with.                                                                       |
| iv.  | The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.                                                                                                                                                                                                                          | <b>Condition noted.</b><br>All the member units will be instructed to comply with.                                                                                            |

### 9. Building material:

| S.NO | CONDITIONS                                                                                                                                                                                                | STATUS OF COMPLIANCE                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| i.   | Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 | <b>Condition noted.</b><br>All the member units will be instructed to comply with. |

|      |                                                                                                                                                                                                               |                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|      | (E) dated: 03.11.2009.                                                                                                                                                                                        |                                                                                    |
| ii.  | Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.                                                                      | <b>Condition noted.</b><br>All the member units will be instructed to comply with. |
| iii. | Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows. | <b>Condition noted.</b><br>All the member units will be instructed to comply with. |

#### 10. Storm Water Drainage:

| S.NO | CONDITIONS                                                                                                                               | STATUS OF COMPLIANCE                                                               |
|------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| i.   | Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual. | <b>Condition noted.</b><br>All the member units will be instructed to comply with. |
| ii.  | Storm water management plan shall be obtained by engaging the services of Anna University/IIT.                                           | <b>Condition noted.</b><br>All the member units will be instructed to comply with. |

#### 11. Energy Conservation Measures:

| S.NO | CONDITIONS                                                                                                                                                                                                              | STATUS OF COMPLIANCE                                                               |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| i.   | Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill requirement.                                                            | All the member units will be instructed to follow applicable rules and guidelines. |
| ii.  | Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement. | All the member units will be instructed to follow applicable rules and guidelines. |
| iii. | All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for                                                     | All the member units will be instructed to follow applicable rules and guidelines. |

|     |                                                                                                                                                                                                                                                                                      |                                                                                    |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|     | illumination of common areas.                                                                                                                                                                                                                                                        |                                                                                    |
| iv. | Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.                                                             | All the member units will be instructed to comply with.                            |
| v.  | A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology's & U factors etc and submitted to the SEIAA in three month's time. | All the member units will be instructed to follow applicable rules and guidelines. |
| vi. | Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.                                                                           | All the member units will be instructed to follow applicable rules and guidelines  |

### 12. Fire Safety:

| S.NO | CONDITIONS                                                                                                                                      | STATUS OF COMPLIANCE                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| i.   | Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.                                     | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| ii.  | Proper and free approach road for fire-fighting vehicles up to the buildings and for rescue operations in the event of emergency shall be made. | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |

### 13. Green Belt Development:

| S.NO | CONDITIONS                                                                                                                                                                                             | STATUS OF COMPLIANCE                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| i.   | The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on there commendation of the Forest department well before the project is | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                              |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|      | completed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                              |
| ii.  | The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wild range of indigenous plants species should be planted in and around the premise in consultation with the DFO, Kancheepuram District I State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. If possible Miyawaki method of planting i.e planting different types of trees at very close escapement may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot and in between blocks in an organized manner. | <b>Condition noted and will be complied.</b><br>All the member units also will be instructed to comply with. |
| iii. | The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Condition noted.</b><br>All the member units also will be instructed to comply with.                      |
| iv.  | The proponent has to earmark the greenbelt area with dimension and GPS Coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tentative layout plan showing the green belt area is enclosed as <b>Annexure-14</b> .                        |

#### 14. Sewage Treatment Plant:

| S.NO | CONDITIONS                                                           | STATUS OF COMPLIANCE                                         |
|------|----------------------------------------------------------------------|--------------------------------------------------------------|
| i.   | The Sewage Treatment Plant (STP) installed should be certified by an | All the member units also will be instructed to comply with. |

|      |                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | independent expert/ reputed Academic institutions for its adequacy and are port in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage. |                                                                                                                                                                                                                                                   |
| ii.  | The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.                                                                                                                                                            | All the member units also will be instructed to handle their domestic wastewater as per the prescribed norms. Acknowledgement copy of the letter submitted to SEIAA stating that SIPCOT will not propose STP is enclosed as <b>Annexure – 10.</b> |
| iii. | The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.                                                                                                                                             | All the member units also will be instructed to handle their domestic wastewater as per the prescribed norms. Acknowledgement copy of the letter submitted to SEIAA stating that SIPCOT will not propose STP is enclosed as <b>Annexure – 10.</b> |
| iv.  | The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.                                                                                                                                             | All the member units will be instructed to handle their domestic wastewater as per the prescribed norms.                                                                                                                                          |
| v.   | The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.                                                                                                                                                    | All the member units will be instructed to handle their domestic wastewater as per the prescribed norms.                                                                                                                                          |
| vi.  | The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.                                                                                                                                           | All the member units will be instructed to comply with.                                                                                                                                                                                           |

### 15. Rain Water Harvesting:

| S.NO | CONDITIONS                                                                                                                                                                                                                                                                                           | STATUS OF COMPLIANCE                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| i.   | The proponent/ Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc. shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused. | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| ii.  | Rain water harvesting for surface run- off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.                                                              | <b>Condition noted and will be complied.</b><br>All the member units will be instructed to comply with. |
| iii. | The project activity should not cause any disturbance & deterioration of the local bio diversity.                                                                                                                                                                                                    | <b>Condition noted.</b>                                                                                 |

#### 16. Building Safety:

| S.NO | CONDITIONS                                                                                                      | STATUS OF COMPLIANCE                                    |
|------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| i.   | Lightning arrester shall be properly designed and installed at top of the Building and where ever is necessary. | All the member units will be instructed to comply with. |

## 5. 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 laboratory during the period of April 2024 to September 2024.

### 5.1 Ambient Air Quality monitoring

The ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored. The test report of ambient air quality is attached as **Annexure – 13**.

### 5.2 Ambient Noise level monitoring

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of April 2024 – September 2024 is enclosed as **Annexure - 13**.

### 5.3 Soil quality monitoring

Soil samples were collected and analyzed for nutrients and heavy metals. The test report of soil samples collected and analyzed during the period of April 2024 – September 2024 is enclosed as **Annexure –13**.

### 5.4 Ground water quality monitoring

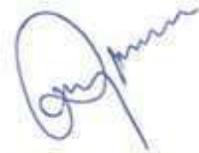
Ground water was tested for various water quality parameters during the period April 2024 – September 2024. The test report of ground water samples collected and analyzed is enclosed as **Annexure-13**.

### 5.5 Surface water quality monitoring

The surface water was collected and tested for various water quality parameters during the period of April 2024 – September 2024. The test report of surface water collected and analyzed is enclosed as **Annexure-13**.

## 6. CONCLUSION

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



**Dr. RAJKUMAR SAMUEL**  
Director Technical

**Name: Dr. Rajkumar Samuel**

**Designation: Director Technical**

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

# Annexure

ENVIRONMENTAL  
CLEARANCE

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

To,

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

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/TN/MIS/65718/2021 dated 16 Jul 2021. The particulars of the environmental clearance granted to the project are as below.

- |                                                   |                                                                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1. <b>EC Identification No.</b>                   | <b>EC22B039TN177183</b>                                                                                                     |
| 2. <b>File No.</b>                                | 7316/2020                                                                                                                   |
| 3. <b>Project Type</b>                            | Expansion                                                                                                                   |
| 4. <b>Category</b>                                | B1                                                                                                                          |
| 5. <b>Project/Activity including Schedule No.</b> | 8(b) Townships and Area Development projects.                                                                               |
| 6. <b>Name of Project</b>                         | Expansion in VallamVadagal Industrial Park- II including Industrial Housing facility in an area of 131.73 Ha (325.36 Acres) |
| 7. <b>Name of Company/Organization</b>            | STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT)                                                        |
| 8. <b>Location of Project</b>                     | Tamil Nadu                                                                                                                  |
| 9. <b>TOR Date</b>                                | 05 Jul 2021                                                                                                                 |

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

Date: 09/02/2022

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

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

*This is a computer generated cover page.*

PARIVESH

*(Pro-Active and Responsive Facilitation by Interactive,  
 and Virtuous Environmental Single-Window Hub)*





**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU**

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

**ENVIRONMENTAL CLEARANCE (EC)**

**Letter No. SEIAA-TN/F. 7316/EC/ 8(b)/797/2022 dated: 02.02.2022.**

To

The Managing Director  
M/s. State Industries Promotion Corporation of Tamil Nadu Limited  
19-A, Rukmani Lakshmi pathy Road  
Post Box No.7223  
Egmore  
Chennai-600 008

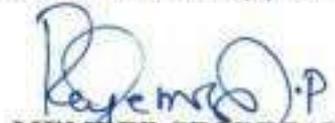
Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed Expansion & change in concept of Development of Vallam Vadagal Industrial Park II by including Industrial Housing facility for the employees of Vallam Vadagal IP –II is 131.73 Ha (325.36 Acres) (Exclusively for industries which does not require EC neither A nor B category Construction of Industrial Housing Facility with built up area 2,07,736.10Sq.m comprising 3120 no of units promoted by M/s. State Industries Promotion Corporation of Tamil Nadu Limited at Survey No: 237pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' Village & 271, 272 pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu - Issued – Regarding.

Ref: 1. Earlier EC issued vide Letter No. SEIAA-TN/F.No.7316/EC/8(b)/727/2020 dated:23.10.2020

2. Your application for Terms of Reference dated: 27.04.2021

3. ToR Issued by SEIAA-TN Vide Lr.No.SEIAA-TN/F.No.7316/SEAC/8(b)/ToR-

  
MEMBER SECRETARY  
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967/2021 dated: 05.07.2021

4. EIA report submitted to SEIAA-TN on 19.07.2021
5. Minutes of the 233<sup>rd</sup> SEAC Meeting held on 21.09.2021
6. Proponent reply dated 01.10.2021
7. Minutes of the 239<sup>th</sup> SEAC Meeting held on 22.10.2021
8. Minutes of the 483<sup>rd</sup> SEIAA Meeting held on 28.01.2022

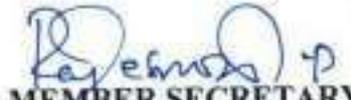
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This has reference to your application 4<sup>th</sup> cited, the proposal is for obtaining Environmental Clearance to establish a construction project under Category B2 and Schedule S.No. 8(b) under the Environment Impact Assessment Notification, 2006, as amended.

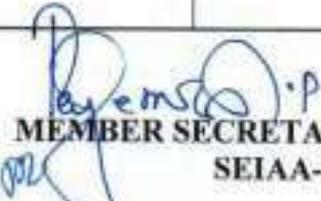
The Competent Authority and Authorized signatory furnished detailed information in Form 1 and Form 1A and liquidate enclosures are as Annexures:

**Annexure I**

| <b>PROJECT DETAILS</b> |                                           |                                                                                                                                                                                                                                                                                      |
|------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SL No</b>           | <b>Description</b>                        | <b>Details</b>                                                                                                                                                                                                                                                                       |
| 1)                     | Name of the Project proponent and address | The Managing Director<br>M/s. State Industries Promotion Corporation of Tamil Nadu Limited.<br>19-A, Rukmani Lakshmi pathy Road<br>Post Box no.7223<br>Egmore<br>Chennai-600 008                                                                                                     |
| 2)                     | Proposed Activity                         | Expansion & change in concept of Development of Vallam Vadagal Industrial Park II by including Industrial Housing facility for the employees of Vallam Vadagal IP -II is 131.73 Ha (325.36 Acres)<br>(Exclusively for industries which does not require EC neither A nor B category) |

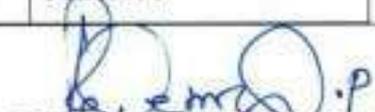
  
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|    |                         |                                                                                                                                                                                                                                                                                                                                                           |                   |                     |
|----|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|
|    |                         | Construction of Industrial Housing Facility with built up area 2,07,736.10Sq.m comprising 3120 no of units promoted through SIPCOT.                                                                                                                                                                                                                       |                   |                     |
| 3) | Schedule No.            | 8(b)                                                                                                                                                                                                                                                                                                                                                      |                   |                     |
| 4) | <b>Project Location</b> |                                                                                                                                                                                                                                                                                                                                                           |                   |                     |
|    | i)Survey No             | 237pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' Village & 271, 272 pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu |                   |                     |
|    | ii)Revenue Village      | Vallam 'A' Village & Vallam 'B' Village                                                                                                                                                                                                                                                                                                                   |                   |                     |
|    | iii)Taluk               | Sriperumbudur                                                                                                                                                                                                                                                                                                                                             |                   |                     |
|    | iv)District             | Kancheepuram                                                                                                                                                                                                                                                                                                                                              |                   |                     |
| 5) | Area of the Land        | With a total area of 131.73Ha (325.36Acres)                                                                                                                                                                                                                                                                                                               |                   |                     |
| 6) | <b>Built up Area</b>    |                                                                                                                                                                                                                                                                                                                                                           |                   |                     |
|    | <b>S. No</b>            | <b>Details</b>                                                                                                                                                                                                                                                                                                                                            | <b>Area in ha</b> | <b>Area in Acre</b> |
|    | 1.                      | Industrial Plots (including 33% green belt)                                                                                                                                                                                                                                                                                                               | 77.20             | 190.71              |
|    | 2.                      | Industrial Housing Facility (Overall area- 30.83, OSR13-1.98, GB-2.19, Commercial-1.51, SWM-2.11 Acres, remaining Area- 23.04 excluding.)                                                                                                                                                                                                                 | 9.33              | 23.04               |
|    | 3.                      | Common amenities (Project Office including health centre, water                                                                                                                                                                                                                                                                                           | 1.26              | 3.10                |

  
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|    |                                                                                                                                |               |               |
|----|--------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
|    | supply, EB, Fire station, etc)                                                                                                 |               |               |
| 4. | Commercial area<br>(Bank, ATM, Shops, canteen, etc<br>(Housing-1.51Acres+Industrial<br>park-8.01Acres)                         | 3.85          | 9.52          |
| 5. | Roads, Storm water drain                                                                                                       | 12.26         | 30.27         |
| 6. | Solid waste management<br>(housing including Biomethanation<br>-2.11 Acres + Industrial Park<br>including E-waste -4.91 Acres) | 2.84          | 7.02          |
| 7. | OSR area<br>(Housing OSR 13-1.98 Acres +<br>Industrial Park OSR 1 to12 -29.06<br>Acres)                                        | 12.57         | 31.04         |
| 8. | Greenbelt 3m along road side                                                                                                   | 3.0           | 7.41          |
| 9. | Greenbelt<br>(Housing GB-2.19 Acres, Industrial<br>Park(5m along periphery of site) -<br>6.09 Acres)                           | 3.35          | 8.28          |
|    | Developable area                                                                                                               | 125.66        | 310.39        |
|    | Water bodies                                                                                                                   | 6.06          | 14.97         |
|    | <b>Total Area</b>                                                                                                              | <b>131.73</b> | <b>325.36</b> |

| S. No | Description                   | Area (Sq. m) |
|-------|-------------------------------|--------------|
| 1.    | Ground coverage for 13 Blocks | 18885.10     |
| 2.    | Commercial area               | 5714.14      |
| 3.    | Health centre                 | 400.0        |
| 4.    | Sewage treatment plant        | 3100.0       |
| 5.    | Solid waste management        | 3122.63      |
| 6.    | Green Belt                    | 8862.30      |
| 7.    | Transformer Yard              | 200.0        |
| 8.    | Road                          | 26737.65     |
| 9.    | Paver Block Area              | 19527.19     |
| 10.   | O.S.R area                    | 8005.87      |
| 11.   | Road                          | 24428.20     |
| 12.   | Recreational area             | 30209.70     |

  
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|  |              |                    |
|--|--------------|--------------------|
|  | <b>Total</b> | <b>1,24,764.58</b> |
|--|--------------|--------------------|

7) Brief description of the project  
 "Development of Vallam-Vadagal industrial Park-II with Industrial Housing Facility" at an area of 131.73 Ha (325.36 Acres)  
**Industrial Park** is proposed for Non EC category industries.  
**Industrial Housing** - 13 Blocks each of S+10 floors (3120 no. of units) with total built up area 207736.10Sq.m. (to accommodate the employees of Vallam Vadagal IP -II)

**Built up area - 2,07,736.10 Sq.m**

| S.No | Floors                 | No of units /floor | No. of persons(@ 5 persons /unit) | FSI Area (Sq.m) | Non FSI Area (Sq.m) | Total Built up area (Sq.m) |
|------|------------------------|--------------------|-----------------------------------|-----------------|---------------------|----------------------------|
| 1    | Stilt                  | 0                  | 0                                 | 0               | 1452.70             | 1452.70                    |
| 2    | 1 <sup>st</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 3    | 2 <sup>nd</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 4    | 3 <sup>rd</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 5    | 4 <sup>th</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 6    | 5 <sup>th</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 7    | 6 <sup>th</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 8    | 7 <sup>th</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 9    | 8 <sup>th</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 10   | 9 <sup>th</sup> Floor  | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |
| 11   | 10 <sup>th</sup> Floor | 24                 | 120                               | 1452.70         | 0                   | 1452.70                    |

  
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|      | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Total for 1 Block                                                                            | 240           | 1200          | 14,527               | 1452.70 | 15,979.70          |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------|----------------------|---------|--------------------|------|--------------------------|-----------|--------------|---|----------|-------|-------|---|------------------------------------|-------|-------|---|-------------------------------|-----|------|---|-----------------------|------|-------|--|--------------|--------------|---------------|
|      | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Total for 13 Blocks</b>                                                                   | <b>3120</b>   | <b>15,600</b> | <b>15979.70 x 13</b> |         | <b>2,07,736.10</b> |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
| 8)   | <p>Green Belt:<br/>44.39Ha (109.66 Acres) (35.33% of total developable area of 125.66Ha(310.39Acres))</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Green belt area break up</th> <th>Area (Ha)</th> <th>Area (Acres)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OSR Area</td> <td>11.07</td> <td>27.35</td> </tr> <tr> <td>2</td> <td>33% green belt in industrial plots</td> <td>25.48</td> <td>62.94</td> </tr> <tr> <td>3</td> <td>Green belt 3m along road side</td> <td>3.0</td> <td>7.41</td> </tr> <tr> <td>4</td> <td>Additional Green belt</td> <td>4.84</td> <td>11.95</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>44.39</b></td> <td><b>109.65</b></td> </tr> </tbody> </table> |                                                                                              |               |               |                      |         |                    | S.No | Green belt area break up | Area (Ha) | Area (Acres) | 1 | OSR Area | 11.07 | 27.35 | 2 | 33% green belt in industrial plots | 25.48 | 62.94 | 3 | Green belt 3m along road side | 3.0 | 7.41 | 4 | Additional Green belt | 4.84 | 11.95 |  | <b>Total</b> | <b>44.39</b> | <b>109.65</b> |
| S.No | Green belt area break up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Area (Ha)                                                                                    | Area (Acres)  |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
| 1    | OSR Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11.07                                                                                        | 27.35         |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
| 2    | 33% green belt in industrial plots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25.48                                                                                        | 62.94         |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
| 3    | Green belt 3m along road side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.0                                                                                          | 7.41          |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
| 4    | Additional Green belt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.84                                                                                         | 11.95         |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
|      | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>44.39</b>                                                                                 | <b>109.65</b> |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
| 9)   | <b>UTILITIES-WATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |               |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
|      | <p>(i) Total water requirement for the project after expansion &amp; modification is 5763 KLD.<br/> (ii) Fresh water requirement -2094.5 KLD<br/> (iii) Recycled water -3668.5 KLD<br/> (iv) Flushing for Industrial Housing -704 KLD.<br/> (v) Process and Utilities -806.5 KLD<br/> (vi) Green belt development -1554 KLD<br/> (vii) Excess treated sewage of 145 KLD will be used for green belt development for Aerospace Park which is adjacent to the site.</p>                                                                                                                                                                                                                                               |                                                                                              |               |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
| 10)  | a) Source from where the water is proposed to be drawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fresh water requirement will be met from Chembarambakkam Lake through metro water pipelines. |               |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |
|      | Waste Water management :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |               |               |                      |         |                    |      |                          |           |              |   |          |       |       |   |                                    |       |       |   |                               |     |      |   |                       |      |       |  |              |              |               |

  
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| S.No | Wastewater source                       | Existing | After expansion & modification | Treatment                                                                                                                                                                                                                                                                                       |
|------|-----------------------------------------|----------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Sewage from industrial housing facility | Nil      | 1968 KLD                       | Treated in 2.5 MLD STP for Industrial Housing Facility. Treated sewage will be used for flushing for Industrial housing and green belt within the Industrial Park after disinfection. Excess treated sewage from housing facility will be sent to Aerospace Park which is adjacent to the site. |
| 2    | Sewage from industries                  | 435 KLD  | 1039 KLD                       | Will be treated by individual industries and reused for flushing green belt development.                                                                                                                                                                                                        |
| 3    | Effluent from individual industries     | 700 KLD  | 810 KLD                        | Will be treated by individual industries and reused for process and utilities. ZLD will be maintained by individual industries.                                                                                                                                                                 |

11) Solid Waste Management

| S. No                     | Solid waste details | Quantity (kg/day) | Management                                                                                             |
|---------------------------|---------------------|-------------------|--------------------------------------------------------------------------------------------------------|
| <b>Industrial Park</b>    |                     |                   |                                                                                                        |
| 1                         | Organic waste       | 6520.5            | Individual industries will segregate the waste and organic waste will be composted and used as manure. |
| 2                         | Inorganic waste     | 4347.5            | Sold to TNPCB authorized recyclers                                                                     |
| <b>Industrial Housing</b> |                     |                   |                                                                                                        |

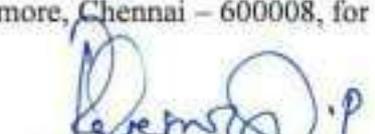
  
**MEMBER SECRETARY**  
**SEIAA-TN**

|                                                                          |                   |                                                                                    |                                                                                                                                                                      |                                                                                                                             |
|--------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|                                                                          | 1                 | Organic Waste                                                                      | 4212                                                                                                                                                                 | Segregated in SWM area proposed for Industrial housing and composted at site. Compost will be used as manure for green belt |
|                                                                          | 2                 | Inorganic waste                                                                    | 2808                                                                                                                                                                 | Sold to TNPCB authorized recyclers                                                                                          |
| <b>Hazardous Waste Generation and Management from Industrial Housing</b> |                   |                                                                                    |                                                                                                                                                                      |                                                                                                                             |
|                                                                          | <b>S. No</b>      | <b>Name of the materials</b>                                                       | <b>Quantity</b>                                                                                                                                                      | <b>Method of disposal</b>                                                                                                   |
|                                                                          | 1                 | 5.1 -Used/Spent oil                                                                | 131.4KL/A                                                                                                                                                            | Disposed to TNPCB authorized recyclers                                                                                      |
|                                                                          | 2                 | 33.3- Empty barrels/containers/liners contaminated with hazardous chemicals/wastes | 2500 nos/Annum                                                                                                                                                       | Disposed to TNPCB authorized recyclers                                                                                      |
| 12)                                                                      | Power requirement |                                                                                    | Existing Industrial Park - 21 MW from TANGEDCO<br>After proposed expansion and Modification - 39 MW from TANGEDCO                                                    |                                                                                                                             |
| 13)                                                                      | Project Cost      |                                                                                    | Project cost for the proposed project is estimated at 1040 Crores which includes Rs.360 Crores for Industrial Park and Rs.680 Crores for Industrial Housing Facility |                                                                                                                             |
| 14)                                                                      | EMP Cost          |                                                                                    | Rs. 1825.93Lakhs                                                                                                                                                     |                                                                                                                             |

**Annexure 2- Affidavit**

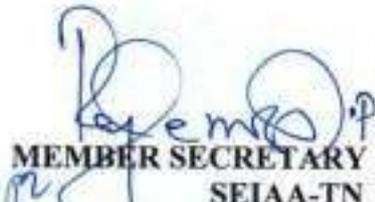
The Proponent has furnished affidavit in One Hundred Rupees stamp paper attested by the Notary stating that

I, Thiru. T. Anand, I.A.S, Managing Director, Authorized Signatory, representing M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT) having registered office at 19-A, Rukmani Lakshmi pathy Road, Egmore, Chennai – 600008, for

  
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**SEIAA-TN**

the proposed "Development of Vallam Vadagal Industrial Park II with Industrial Housing Facility" over an extent of 131.73 Ha (325.36 Acres) at Survey No's: 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village and 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu State, hereby take oath and state as under in this affidavit:

- I. The total water requirement of the park is estimated at 5763 KLD (Fresh water: 2094.5 KLD and Recycled water: 3668.5 KLD). Fresh water requirement for the Industrial Park is proposed to be sourced from Chembarambakkam lake through Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB).
- II. Power Supply (39 MVA) will be ensured from Tamil Nadu Generation and Distribution Co. Ltd. (TANGEDCO) Facility as a common supply system by SIPCOT to all member industries. The Individual industries will avail power supply from TANGEDCO and may have backup DG sets as per their requirement. For Housing facility 2x1500 kVA DGs are proposed for power backup.
- III. All member industries will be instructed to provide rain water harvesting structures as per norms. SIPCOT will construct Rainwater harvesting pits along the storm water drain for recharging ground water.
- IV. Storm water drainage will be provided as open concrete channels all along the road for ensuring proper collection of storm water and the same will be used for recharging the rain water harvesting structures. We confirm that the storm water drain would not carry any untreated (or) treated sewage.
- V. All member industries will be instructed to have their own solid waste and hazardous storage facility within their Plot. Inorganic waste will be sold to TNPCB authorized recyclers/ service providers by member units. SIPCOT has earmarked 7.02 Acres of land for establishment of Solid Waste Management facility. Biomethanation plant of 12 TPD is proposed for the project to cater the Organic waste generation from the Industrial Park & Industrial housing facility.

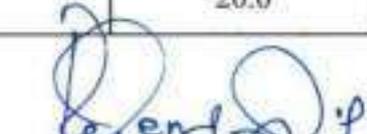
  
**MEMBER SECRETARY**  
**SEIAA-TN**

- VI. All member industries will be mandated to store and dispose the hazardous waste generated within their premises as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- VII. For the Industrial Housing facility, 2.5 MLD STP is proposed to treat the sewage generated from the Industrial Housing Facility and the treated sewage will be reused for flushing within the housing facility and for green belt development within the Industrial Park. Individual industries in the Industrial Park will be mandated to provide STP/ETP of adequate capacity and maintain Zero Liquid Discharge (ZLD) system.
- VIII. Overall Green Belt area of the park would be  $\approx 109.65$  acres i.e., 35.33% of developable area of 310.39 acres.

| S.No | Green belt area break up           | Area (Ha)    | Area (Acres)  |
|------|------------------------------------|--------------|---------------|
| 1    | OSR Area                           | 11.07        | 27.35         |
| 2    | 33% green belt in industrial plots | 25.48        | 62.94         |
| 3    | Green belt 3m along road side      | 3.0          | 7.41          |
| 4    | Additional Green belt              | 4.84         | 11.95         |
|      | <b>Total</b>                       | <b>44.39</b> | <b>109.65</b> |

- IX. EMP cost of the park is INR. 1825.93 Lakhs. Details are given below:

| S.No | Project Components                                   | Tentative Cost (INR lakhs) |
|------|------------------------------------------------------|----------------------------|
| 1    | Storm Water drains                                   | 1107.00                    |
| 2    | Solar Street Lights                                  | 98.00                      |
| 3    | Green Belt Development                               | 11.53                      |
| 4    | Rain Water Harvesting                                | 50.00                      |
| 5    | Solid Waste Management in Park                       | 30.00                      |
| 6    | Health Centre /Medical Dispensary                    | 25.00                      |
| 7    | STP for Industrial Housing (2.5 MLD), solar lighting | 150.0                      |
| 8    | Stacks for Industrial Housing DG set                 | 20.0                       |

  
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| S.No | Project Components                                           | Tentative Cost (INR lakhs) |
|------|--------------------------------------------------------------|----------------------------|
| 9    | Biomethanation plant                                         | 55.0                       |
| 10   | E waste closed shed                                          | 269.00                     |
| 11   | Sanitary napkin incinerator for Industrial housing (130 nos) | 10.4                       |
|      | <b>Total EMP Cost</b>                                        | <b>1825.93</b>             |

- X. As per Office Memorandum dated 1<sup>st</sup> May, 2018 from MoEF&CC, SIPCOT will earmark INR 520 Lakhs i.e., 0.5% of the project cost (Rs.1040 Crores) towards CER activities.

Declaration

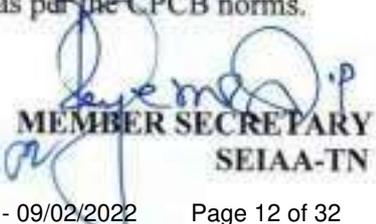
I, Thiru. T. Anand, I.A.S., do hereby declare that the statement made by me under para (I) to (X) are true and correct to the best of my knowledge and belief. Nothing is false and nothing is concealed in it.

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

**SEAC Remarks:**

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

1. The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.
2. The project proponent shall submit flood inundation certificate and shall fix the level according to the conditions issued in the certificate.
3. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SEIAA.
4. The height of the stacks of DG sets shall be provided as per the CPCB norms.

  
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5. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
6. The proponent shall make proper arrangements for the disposal of the treated water from the proposed site for Toilet flushing, green belt development & OSR and no treated water be let out of the premise.
7. The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.
8. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
9. The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with CPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/OSR.
10. 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.
11. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
12. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary

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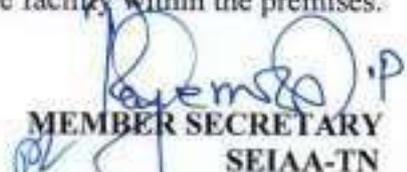
Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.

13. No waste of any type to be disposed off in any other way other than the approved one.
14. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
15. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
16. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
17. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
18. Solar energy should be at least 100/o of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
19. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 & 20.10.2020 the proponent shall furnish the detailed EMP and the project proponent shall create a good Environmental Awareness Institute mentioning all the activities as CER proposal and furnish the same before placing the subject to SEIAA.

**SEIAA Remarks:**

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

1. All the construction of Buildings shall be energy efficient and conform to the green building norms.
2. The proponent shall provide the adequate play area for the children within the premises.
3. The proponent shall provide the adequate health care facility within the premises.

  
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4. The proponent shall provide the adequate parking facility within the premises, with clear traffic plan.
5. All the eateries provided within the premises shall be maintained in hygienic way.
6. The proponent shall ensure that no treated or untreated trade effluent/sewage shall be discharged outside the premises under any circumstances.
7. The proponent shall ensure that the activities should not result in temperature raise, nor lead to rise in carbon dioxide and other gases that add to climate change.
8. All the trees, biodiversity and water bodies within the premises should be protected.
9. Action should be initiated to cover 33% of the total project area under green belt development with native species.
10. All mitigation measures as suggested in the EIA/EMP and disaster management plan to be strictly adhered.
11. The activities should in no way cause emission and buildup Green House Gases(GHG).
12. All actions to be eco friendly and support sustainable management of the natural resources within and outside premises.

Environmental Clearance along with the conditions containing four parts namely

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

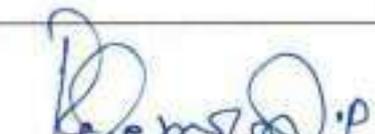
Part - B –Specific Conditions – Pre construction phase

Part - C - Specific Conditions – Construction phase

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

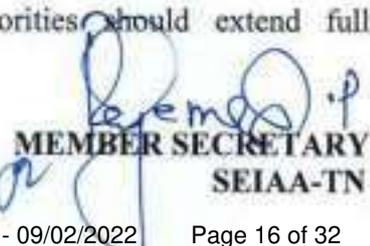
**Validity:**

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

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

1. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
2. The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full

  
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- cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
9. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
  10. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
  11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.
  12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
  13. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
  14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
  15. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or

  
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submitted false or misleading information or inadequate data for obtaining the environmental clearance.

16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
21. The EMP cost shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
22. The project activity should not cause any disturbance & deterioration of the local bio diversity.
23. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
24. All the assessed flora & fauna should be conserved and protected.
25. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.

  
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26. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.
27. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
28. The safety measures proposed in the report should be strictly followed.
29. The Developer shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.
30. The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.
31. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCCB.
32. The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and throwaway plastics.
33. The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCCB.
34. The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCCB.
35. The allotted industrial units shall obtain consent from the TNPCCB separately for their establishment & operation in this industrial estate.
36. The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.

  
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37. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
38. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
39. It is the sole responsibility of the proponent that the treated sewage disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc.
40. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents,
41. The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rule 2016 as amended and E-Waste Management Rules, 2016
42. There shall be no discharge of effluent outside the Industrial Park at any time.
43. The Developer shall mandate the member units of the Industrial Park to install adequate APC measures/Acoustic to achieve air emissions standards within permissible limits prescribed by the CPCB.

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

1. The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.
2. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
3. A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.
4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments, etc as per

  
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National Building Code including protection measures from lightning etc before commencement of the work.

5. All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
6. Design of buildings should be in conformity with the Seismic Zone Classifications.
7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
8. No construction activity of any kind shall be taken up in the OSR area.
9. Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.
10. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
12. The project proponent shall ensure the level of basement shall be above maximum flood level.
13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
  - i. Location of STP, compost system, underground sewer line.
  - ii. Pipe Line conveying the treated effluent for green belt development.
  - iii. Pipe Line conveying the treated effluent for toilet flushing
  - iv. Water supply pipeline
  - v. Gas supply pipe line, if proposed
  - vi. Telephone cable
  - vii. Power cable
  - viii. Storm water drains, and
  - ix. Rain water harvesting system, etc., and it shall be made available to the owners

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

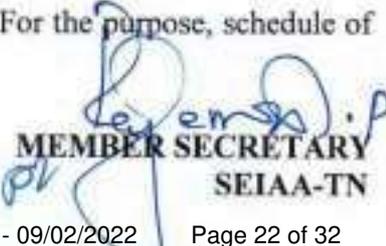
**Part - C - Specific Conditions – Construction phase:**

**1. Construction Schedule:**

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

**2. Labour Welfare:**

- i) All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.
- ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.
- iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of

  
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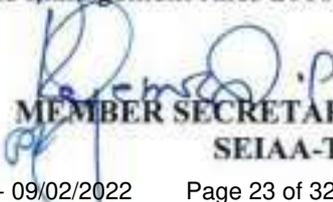
health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.

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

- i) The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out sourced.
- ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.
- iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.

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

- i) In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.
- ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
- iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.

  
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- iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
- v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.

**5. Top Soil Management:**

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

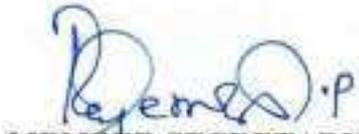
**6. Construction Debris disposal:**

- i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.
- ii) Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/ lake/ stream etc.

**7. Diesel Generator sets:**

- i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.
- ii) The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.
- iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.

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

  
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- i) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.
- ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.
- iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per DTCP norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be met before commissioning.
- iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.

**9. Building material:**

- i) Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.
- ii) Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.
- iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.

**10. Storm Water Drainage:**

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

**11. Energy Conservation Measures:**

  
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- i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.
- ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.
- iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.
- iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.
- v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.
- vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

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

- i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.
- ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue operations in the event of emergency shall be made.

#### **13. Green Belt Development:**

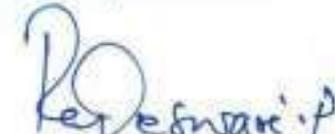
- i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.

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

#### **14. Sewage Treatment Plant:**

- i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.
- ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.
- iii) The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.

  
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- iv) The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.
- v) The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.
- vi) The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.

**15. Rain Water Harvesting:**

- i) The proponent/ Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.
- ii) Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.
- iii) The project activity should not cause any disturbance & deterioration of the local bio diversity.

**16. Building Safety:**

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

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

1. There should be Fire fighting plan and all required safety plan.
2. Regular fire drills should be held to create awareness among owners/ residents.
3. House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.

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

5. The project proponent has to furnish the certificate stating that the proposed site had not encroached any water body (rivers, canals, lakes, ponds, tanks, etc) from its original boundary shall be obtained from the competent authority before obtaining CTE from TNPCB.
6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. Solar energy saving shall be increased to atleast 10% of total energy utilization.
8. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
9. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.
10. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
11. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
12. The project activities should in no way disturb the manmade structures.
13. The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
14. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
15. Raw water quality to be checked for portability and if necessary RO plant shall be provided.

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

16. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
17. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
18. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.
19. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
20. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
21. The E - waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016 as amended.
22. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
23. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management &

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

Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.

25. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
26. The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
27. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
28. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.
29. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

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

**Copy to:**

1. The Principal Secretary to Government, Environment & Forests Dept, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ), 34, HEPC Building, 1<sup>st</sup>& 2<sup>nd</sup> Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34.

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





**TAMIL NADU POLLUTION CONTROL BOARD**

Category of the Industry :

**RED**

**CONSENT ORDER NO. 2201241526472 DATED: 27/06/2022.**

**PROCEEDINGS NO.T4/TNPCB/F.2934SPR/RL/SPR/A/2022 DATED: 27/06/2022**

**SUB:** TNPC Board-Consent for Establishment-M/s. SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY , S.F. No. SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu., VALLAM A B BLOCK village, Sriperumbudur Taluk and Kancheepuram District - for the establishment or take steps to establish the industry under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987(Central Act. 14 of 1981)-Issued -Reg.

**REF:** 1. Unit's application no. 41526472 dated: 14.02.2022  
2. IR.No : F.2934SPR/RL/AEE/SPR/2022 dated 01/06/2022  
3. Minutes of the 199th TSC meeting vide item No. 199-07 dated:22.06.2022.

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

The Managing Director,

M/s . SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY  
S.F No.SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.,  
VALLAM A B BLOCK Village,  
Sriperumbudur Taluk,  
Kancheepuram District.

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

S.F No. SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.,  
VALLAM A B BLOCK Village,  
Sriperumbudur Taluk,  
Kancheepuram District.

This Consent to establish is valid upto **February 01, 2029**, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

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

To  
The Managing Director,  
M/s.SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY,  
State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmipathy Road, Egmore, Chennai,Kancheepuram  
District  
Pin: 600008

**Copy to:**

- 1.The Executive Officer, SRIPERUMBUDUR-Town Panchayat, Sriperumbudur Taluk, Kancheepuram District .
  2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, SRIPERUMBUDUR.
  3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
  4. File
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## SPECIAL CONDITIONS

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

| Sl. No.                | Description                                                                                                                                                                                                                                                                                                                                                                 | Quantity | Unit |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|
| <b>Product Details</b> |                                                                                                                                                                                                                                                                                                                                                                             |          |      |
| 1.                     | Development of Vallam Vadagal Industrial Park - II including Industrial Housing Facility for the employees of Vallam Vadagal IP II is 131.73 Hectares (325.36 acres) Exclusively for industries which does not require EC neither A nor B category and construction of Industrial Housing Facility with built up area 2,07,736.10 sq. m. comprising of 3120 units by SIPCOT | 0        | 0    |

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

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

3. **Special Additional Conditions:**

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

4. **Additional Conditions:**

1. The SIPCOT shall obtain fresh EC if there is any change in its Scope/proposal with respect to water consumption, generation of sewage, Trade Effluent, Activities planned such as Housing facility for employees, etc.
2. The SIPCOT shall ensure that the Native trees are planted for development of green belt in 33% of the allotted area of SIPCOT and also by individual industries
3. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA vide SEIAATN/F-7316/EC/8(b)/797/2022 dated 02.02.2022.
4. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
5. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
6. In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTE/ CTO of the Board.
7. In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
8. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
9. The unit shall obtain and furnish the approved planning permission from the Competent Authority while applying for CTO of the Board.
10. The unit shall ensure that no process emission is let out from its activity.
11. The unit shall conduct Ambient Noise level survey report and Ambient Air Quality survey report for base line data to assess the quality of Ambient Air and Ambient Noise level and submit the report within one month's time.
12. The SIPCOT shall ensure that the allotted units are mandated that all the member industries to develop green belt in 33% of their allotted area.
13. The SIPCOT shall earmark the buffer zone all around the periphery of the layout.
14. The SIPCOT shall allow only housing the industries that do not attract the provisions of EIA notification 2006 as amended in the industrial park as per the EC obtained.
15. The SIPCOT shall allow only the employees of Industrial park to accommodate the housing facilities as per the EC obtained.
16. The SIPCOT shall properly develop the common amenities like road, Storm water drain, street lights, water supply pipelines and avenue plantation in OSR area
17. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
18. The SIPCOT shall ensure that the allotted units are mandated to implement own sewage treatment system for treating and disposing the sewage and shall ensure that no treated / untreated sewage shall gain access outside the unit premises on land / water source under any circumstances.
19. The unit shall allot minimum 5 plots of the total plot area (7.02 acres) for Solid Waste Management.
20. The unit shall remit consent fee in case of revision by the Government.

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

## **GENERAL CONDITIONS**

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

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

\*\* This consent order is computer generated by OCMMS of TNPCB and no signature is needed\*\*



## TAMIL NADU POLLUTION CONTROL BOARD

Category of the Industry :

**RED**

**CONSENT ORDER NO. 2201141526472 DATED: 27/06/2022.**

**PROCEEDINGS NO.T4/TNPCB/F.2934SPR/RL//SPR/W/2022 DATED: 27/06/2022**

**SUB:** TNPC Board-Consent for Establishment-M/S SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY S.F No. SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu., VALLAM A B BLOCK Village, Sriperumbudur Taluk, Kancheepuram District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and control of Pollution)Act,1974, as amended in 1988(Central Act 6 of 1974)- Issued- Reg.

**REF:** 1. Unit's application no. 41526472 dated: 14.02.2022  
2. IR.No : F.2934SPR/RL/AEE/SPR/2022 dated 01/06/2022  
3. Minutes of the 199th TSC meeting vide item No. 199-07 dated:22.06.2022.

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

The Managing Director,

SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY

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

S.F. No.SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.,  
VALLAM A B BLOCK Village,  
Sriperumbudur Taluk,  
Kancheepuram District.

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

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

To  
The Managing Director,  
M/s.SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY,  
State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmi pathy Road, Egmore, Chennai,  
Pin: 600008

**Copy to:**

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

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## SPECIAL CONDITIONS

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

| Sl. No.                | Description                                                                                                                                                                                                                                                                                                                                                                 | Quantity | Unit |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|
| <b>Product Details</b> |                                                                                                                                                                                                                                                                                                                                                                             |          |      |
| 1.                     | Development of Vallam Vadagal Industrial Park - II including Industrial Housing Facility for the employees of Vallam Vadagal IP II is 131.73 Hectares (325.36 acres) Exclusively for industries which does not require EC neither A nor B category and construction of Industrial Housing Facility with built up area 2,07,736.10 sq. m. comprising of 3120 units by SIPCOT | 0        | 0    |

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

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

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

| Outlet No.                            | Description of Outlet | Maximum daily discharge in KLD | Point of disposal     |
|---------------------------------------|-----------------------|--------------------------------|-----------------------|
| <b>Effluent Type : Sewage</b>         |                       |                                |                       |
| 1.                                    | Sewage                | 0.85                           | On Industrys own land |
| <b>Effluent Type : Trade Effluent</b> |                       |                                |                       |

4. **Special Additional Conditions:**

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

5. **Additional Conditions:**

1. The SIPCOT shall obtain fresh EC if there is any change in its Scope/proposal with respect to water consumption, generation of sewage, Trade Effluent, Activities planned such as Housing facility for employees, etc.
2. The SIPCOT shall ensure that the Native trees are planted for development of green belt in 33% of the allotted area of SIPCOT and also by individual industries
3. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA vide SEIAATN/F-7316/EC/8(b)/797/2022 dated 02.02.2022.
4. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
5. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
6. In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTE/ CTO of the Board.
7. In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
8. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
9. The unit shall obtain and furnish the approved planning permission from the Competent Authority while applying for CTO of the Board.
10. The unit shall obtain and furnish permission for supply of fresh water from the competent authority while applying for CTO of the Board.
11. The stability of the entire building does not falls under the purview of the TNPCB Board.
12. The unit shall submit baseline data for ground water to assess the quality of ground water for 1 KM radius outside the boundary of the project and also inside available open wells within a month's time.
13. The unit has to ensure that all the member Industries within the industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
14. The SIPCOT shall earmark the buffer zone all around the periphery of the layout.
15. The SIPCOT shall allow only housing the industries that do not attract the provisions of EIA notification 2006 as amended in the industrial park as per the EC obtained.
16. The SIPCOT shall allow only the employees of Industrial park to accommodate the housing facilities as per the EC obtained.
17. The SIPCOT shall properly develop the common amenities like road, Storm water drain, street lights, water supply pipelines and avenue plantation in OSR area
18. The SIPCOT shall ensure that all the allotted industries shall implement ZLD system for treating the trade effluent and shall ensure that no treated / untreated sewage or trade effluent shall not gain access outside the unit premises on land/water sources under any circumstance as these proposed park falls under the catchment area of nearby eri's.
19. The SIPCOT shall provide a common solid waste treatment and disposal facility for the disposal of solid wastes (bio degradable wastes) to be generated from the industries.
20. The unit shall provide septic tank followed by soak pit to treat the sewage generated from the unit, so as to achieve the standards prescribed by the Board.
21. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
22. The SIPCOT shall ensure that the allotted units are mandated to implement own sewage treatment system for treating and disposing the sewage and shall ensure that no treated / untreated sewage shall gain access outside the unit premises on land / water source under any circumstances.
23. The unit shall allot minimum 5 plots of the total plot area (7.02 acres) for Solid Waste Management.
24. The SIPCOT shall ensure that the allotted units not dig any well or bore well inside their premises for drawing of ground water.
25. The SIPCOT shall ensure that the allotted units are mandated that the water courses/pathai leading to the Water bodies located in the surroundings will not be disturbed and in this regard a condition shall be imposed in the allotment order to the member units.
26. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
27. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules,2016.
28. The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
29. The unit shall adopt safe and environment friendly management practices within the premises.
30. The unit shall provide solar powered lights for illumination of common areas, lighting for gardens and street lighting.
31. The unit shall ensure that the actual occupying units obtain consent from the TNPCB separately for their establishment & operation and should have valid consent of the Board for their activity.
32. The unit shall comply with the E- waste Management Rules, 2016. E-waste as listed in Schedule – I generated by them shall be channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of e- waste generated by them in Form – 2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form -3, to the TNPCB on or before the 30th day of June following the financial year.
33. The unit shall remit consent fee in case of revision by the Government.

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

## **GENERAL CONDITIONS**

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

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

\*\* This consent order is computer generated by OCMMS of TNPCB and no signature is needed\*\*

# Annexure 3

P-IV/EC/I/179105/2024/VV-II

Date: 30.09.2024

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

(BY PPA)

Sir,

Sub: SIPCOT - Vallam Vadagal Industrial Park\_II with Industrial Housing Facility -  
Environmental Statement for the Financial Year ending 31<sup>st</sup> March 2024 -  
Submitted - Reg.

Ref: SEIAA EC vide Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dated  
02.02.2022.

\*\*\*\*\*

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

Yours faithfully,  
Sd/-  
MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/



  
ASSISTANT GENERAL MANAGER (P-IV)

Sir,  
FC compared.  
o/c  
Jeb  
30/9/24

The screenshot displays the SIPCOT website's 'COMPLIANCE REPORTS' page. The page features a navigation menu at the top with links for Home, About Us, Why SIPCOT?, Land Information, Industrial Parks, Special Projects, Tenders, Resources, Logins, and Contact Us. Below the menu, a table lists 16 compliance reports for June 2024. The report for 'Vallam Vadagal II' is highlighted with a green border. A red arrow points to a 'Encountered Error' message on the right side of the page. The Windows taskbar at the bottom shows the system time as 12:22 PM on 11/11/2024.

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

- Home
- About Us
- Why SIPCOT ?
- Land Information
- Industrial Parks
- Special Projects
- Tenders
- Resources
- Logins
- Contact Us

|    |                                                              |          |
|----|--------------------------------------------------------------|----------|
| 12 | Compliance Report - Madhavaram for June 2024                 | Download |
| 13 | Compliance Report - Mambakkam for June 2024                  | Download |
| 14 | Compliance Report - Marudhandapalli for June 2024            | Download |
| 15 | Compliance Report - Theri for June 2024                      | Download |
| 16 | Compliance Report - A.Sothanur for June 2024                 | Download |
| 17 | Compliance Report - Nedumpuli for June 2024                  | Download |
| 18 | Compliance Report - Virudhuragar for June 2024               | Download |
| 19 | Environmental Statement for the Financial Year - 2023 - 2024 | Download |



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

044-45261777

tapals@sipcot.in



### Newsletter

Subscribe our newsletter to get our latest update and news

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### Mandatories

- Disclaimer
- Terms and conditions
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- Refund Policy
- Hyper Link Policy
- Copy Right Policy

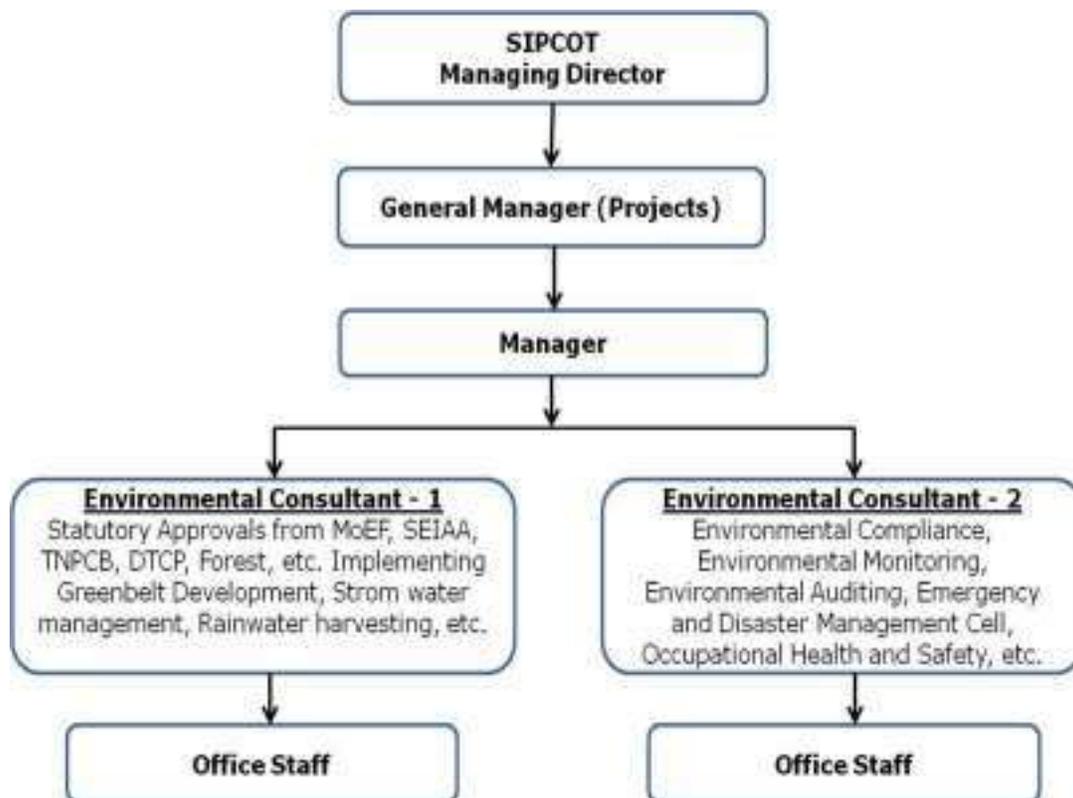
### Map



## 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               | <ul style="list-style-type: none"> <li>➤ Responsible for overall environmental management.</li> <li>➤ Regularly conduct meeting with EMC and take feedback regarding all the activities performed under Environmental Management and give directions to succeeding component.</li> <li>➤ Approval of funds for carrying out environmental management activities.</li> </ul>                                                                                                                                          |
| 2     | GM – Projects                   | <ul style="list-style-type: none"> <li>➤ Keep aware about all the activities performed under EMC in the industrial parks.</li> <li>➤ Issuing direction to Project officers for implementing Greenbelt development, Storm water management, rain water harvesting, etc.</li> <li>➤ To deal with legal entity pertaining to environmental issues.</li> </ul>                                                                                                                                                           |
| 3     | Manager                         | <ul style="list-style-type: none"> <li>➤ To prepare and allocate budget for Environment Management Plan.</li> <li>➤ Ensuring compliance to the conditions prescribed by statutory authority.</li> <li>➤ Mandating member industries to comply with the conditions stipulated in the statutory approvals and non-compliance if any shall be reported to GM and immediately required action will be taken.</li> </ul>                                                                                                  |
| 4     | Environmental Consultants (Two) | <ul style="list-style-type: none"> <li>➤ Obtaining Statutory Approvals from MoEF&amp;CC / SEIAA / TNPCB, etc.</li> <li>➤ Addressing the various queries received from statutory authorities on environmental front.</li> <li>➤ Submitting Environmental compliance report and coordinating with project officers for Environmental monitoring, audit, etc.</li> <li>➤ Compliance with the environmental laws and implications which dynamically changes from time to time due to the emerging challenges.</li> </ul> |



# Vallam Vadagal Industrial Park - II with Industrial Housing Facility

## English Advertisement - 'The Hindu' Dated 17.02.2022

he go- have ahead session. Ashok & Elec- shnan- (Secu- versy,

Mr. Krishnankutty, had instigated the controversy. Kerala Chief Minister Pinarayi Vijayan has asked Mr. Krishnankutty to settle the imbroglio. Consequently, the Minister has invited trade union leaders for talks on Thursday.

**CENTRAL UNIVERSITY OF SOUTH BIHAR**  
**RECRUITMENT NOTICE - TEACHING POSITIONS**

**Advertisement No. - CUSB/Advt./37/2022 dated :17.02.2022**

Online applications in the prescribed form are invited from Indian citizens/Overseas Citizen of India (OCI) eligible for the post of **Professor/ Associate Professor / Assistant Professor** (in various programmes) on regular basis.

For details of advertisement, filling of online application form and last date visit University Website : [www.cusb.ac.in](http://www.cusb.ac.in)

**Registrar**

**SOUTHERN RAILWAY**  
**ELECTRICAL (TRD) BRANCH,**  
**TIRUCHCHIRAPPALLI**  
**DIVISION**

For and on behalf of the President of India, the Divisional Railway Manager, Traction Distribution, Southern Railway, Tiruchchirappalli - 620001 invites online E-tenders from prospective tenderers / bidders for the following work.

1. Tender Number : TPJ-TRD-2021-2022-15; 2. Name of work : TPJ Div. - Developing of second entry at TPJ yard by extending the stabling line and connecting to third line to facilitate reception and dispatch of express trains - Electrical TRD Arrangements;

3. Approx. value of tender : ₹ 1,18,03,963.00; 4. Cost of tender booklet : ₹ 5,600; 5. Earnest money deposit (EMD) : ₹ 2,09,100; 6. Date & Time of Bidding: 23.02.2022 to 14:00 Hours on 09.03.2022; 7. Date & Time of Tender Opening: After 15:00 Hours on 09.03.2022; 8. Period of completion: Nine Months; 9. Period of validity of offer: 81 days from the date of tender opening.

**NOTE :** 1) The prospective tenderers/bidders are requested to register themselves with IREPS (Indian Railway Electronic Procurement System), if not done already, for participating in E-Tenders. Registration form is available on IREPS site (Quick link New Vendors/ Contractors (E-Tender).

2) Contractors/bidders are requested to procure Digital Signing Certificate (DSC) Class III or appropriate from Govt. of India, authorized Certifying authority (CCA-Certifier of Certifying Authority) for participating in E-Tender & to log into IREPS.

3) Payment of Tender Document Cost and EMD (if any) in respect of e-tendering, should be done through net banking or payment gateway only (online payment). Tenders received without tender document cost shall be rejected.

4) Kindly log on to <http://www.ireps.in>

**STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT)**  
**VALLAM VADAGAL INDUSTRIAL PARK - II**

**ENVIRONMENTAL CLEARANCE**

Environmental Clearance has been obtained for the proposed Expansion & Change in concept of Development of Vallam Vadagal Industrial Park-II including Industrial Housing Facility at Vallam 'A' & 'B' villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu from State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide Letter No.: SEIAA-TN/F.7316/EC/B(b)/797/2022 dated: 02.02.2022.

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

DIPR/074/Display/2022

**MANAGING DIRECTOR**  
 SIPCOT, 19A, RUKMANI LAKSHMIPATHY ROAD, EGMORE, CHENNAI - 600 066.

**Government of Jammu & Kashmir**  
**OFFICE OF THE EXECUTIVE ENGINEER MECHANICAL HOSPITAL AND CENTRAL HEATING DIVISION SRINAGAR**  
**(Tele-fax No: 0194-2496089, e-mail id: xenmhchdk@yahoo.in)**

**(Short-term)**  
**(Fresh)**

**e -NIT NO: MHCHD/TS /2021-22 /331/e-tendering**  
**Dated:-14.02.2022**

For and on behalf of the Lt. Governor, J&K UT e-tenders are invited from Authorized dealers of Suggested makes of SpRACs or Registered/Reputed and experienced firms for the below mentioned work:-

**LIMITED**

(BCCL) for le on website procurement Procurement is also done nders issued

**SRINAGAR KASHMIR**

2022

from interested parties/persons e Department Kashmir as per

security Cost of tender document

Projects-II/Vallam Vadagal - II/2022

Date: 08.03.2022

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

/RPAD/

Sir,

Sub: SIPCOT - Vallam Vadagal Industrial Park - II Including Industrial Housing Facility- Submission of copy of the Press Release on issue of Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dated: 02.02.2022.

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA, TN. As per EC condition, the advertisement regarding issue of Environment Clearance for establishment of Vallam Vadagal Industrial Park - II Including Industrial Housing Facility has been released in 'The Hindu' Chennai edition dated 17.02.2022 in English language and 'Dinakaran' Chennai edition dated 17.02.2022 in Tamil Language.

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

Yours faithfully,

H. Prathapathy  
GENERAL MANAGER (P-II)

Encl.: As above.



Madam,  
FC completed.  
O/c  
Jsh

Projects- II/Vallam Vadagal-II/2022

Date: 08.03.2022

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

/RPAD/

Sir,

Sub: SIPCOT - Vallam Vadagal Industrial Park - II Including Industrial  
Housing Facility- Submission of copy of the Press Release on issue  
of Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEI/A-TN/F.7316/EC/8(b)/797/2022 dated:  
02.02.2022.

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance  
(EC) from SEIAA, TN. As per EC condition, the advertisement regarding issue of  
Environment Clearance for establishment of Vallam Vadagal Industrial Park - II  
Including Industrial Housing Facility has been released in 'The Hindu' Chennai  
edition dated 17.02.2022 in English language and 'Dinakaran' Chennai edition  
dated 17.02.2022 in Tamil Language.

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

Yours faithfully,

*HJ*  
GENERAL MANAGER (P-II)

Encl.: As above.



Madam,  
Fc compared  
o/c.  
skb.



Annexure-8

SIPCOT

Projects-II/EC/Vallam Vadagal-II /2022

Date: 18.02.2022

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

/RPAD/

Sir,

Sub: SIPCOT - Development of Vallam Vadagal Industrial Park - II including Industrial Housing Facility at Vallam A & B Village, Sriperumbudur Taluk, Kancheepuram District - Submission of Copy of Environmental Clearance issued by SEIAA - Regarding.

Ref: Lr.No.SEIAA-TN/F.7316/EC/8(b)/797/2022 dated: 02.02.2022.

\*\*\*\*\*

With reference to the above, we have obtained Environmental Clearance (EC) for the proposed Establishment of Vallam Vadagal Industrial Park - II including Industrial Housing Facility in an area of 131.73 hectares (325.36 acres) at Vallam A & B Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu from SEIAA, TN. The copy of Environmental Clearance has been enclosed here with for your kind perusal.

Yours faithfully,  
Sd/--

GENERAL MANAGER (P-II)

/Forwarded by Order/

*N. Sasunala*  
ASSISATANT MANAGER (P-II)

Encl: As above.

Copy to:

The Project Officer,  
SIPCOT Industrial Park, வல்லம் ஊராட்சி மன்றம்,  
Vallam Vadagal.

*த. சிவசுப்பிரமணியன்*  
தலைவர்

/BY MAIL/

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

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

Phone : 45261777 Fax : 45261796 Website : www.siocot.tn.gov.in

The screenshot shows a web browser displaying the SPCOT website. The browser's address bar shows the URL: [https://spcotweb.tn.gov.in/Environment\\_division](https://spcotweb.tn.gov.in/Environment_division). The website has a navigation menu with the following items: Home, About Us, Why SPCOT?, Land Information, Industrial Parks, Special Projects, Tenders, Resources, Logins, and Contact Us. Below the menu is a table listing industrial parks. The table has three columns: a numerical ID, the name of the park, and the location. Each row includes a 'Download' link with a red triangle icon. The row for 'Vallam Vadagai - II' (ID 25) is highlighted with a green border. The Windows taskbar at the bottom shows the system tray with the date 11/11/2024 and time 12:04 PM.

| ID | Park Name           | Location        | Action   |
|----|---------------------|-----------------|----------|
| 15 | Mappadu             | Kancheepuram    | Download |
| 16 | Kurbarapali         | Krishnagiri     | Download |
| 17 | Cheyyar - I         | Thiruvannamalai | Download |
| 18 | Cheyyar - II        | Thiruvannamalai | Download |
| 19 | Oragadam            | Kancheepuram    | Download |
| 20 | Vaipar Mathur       | Kancheepuram    | Download |
| 21 | Theruvokandigai     | Thiruvallur     | Download |
| 22 | Pillaiakkam         | Kancheepuram    | Download |
| 23 | Vallam Vadagai - I  | Kancheepuram    | Download |
| 24 | Aerospace Park      | Kancheepuram    | Download |
| 25 | Vallam Vadagai - II | Kancheepuram    | Download |
| 26 | Manapalai           | Tiruchirappalli | Download |
| 27 | Tindivanam          | Villupuram      | Download |



SIPCOT

Date: 13.04.2022

Projects-II/EIA/VV-II/EC/2022

The Member Secretary,  
State Level Environment Impact Assessment Authority,  
3<sup>rd</sup> Floor, Panagal Maligai,  
No1. Jeenis Road, Saidapet,  
Chennai-600015.

Sir,

Sub: SIPCOT - Request for revision of points in Environmental Clearance issued for the proposed 'Development of Vallam Vadagal Industrial Park - II including Industrial Housing Facility in an area of 131.73 Hec (325.36 acres)' at Vallam A and Vallam B Villages of Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu - Submitted - Reg.

- Ref: 1. EC File No: 7316/2020  
2. EC identification No. EC22B039TN177183  
3. EC issued vide Letter No. SEIAA-TN/F.No.7316/EC/8(b)/797/2022 dated 02/02/2022

\*\*\*\*\*

With reference to the above subject, we request for revision of the following points in the EC:

| S. No. | Points requested for revision                                                                                                                                                                   | Revision needed                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Page No. 3 and Page No. 12, it is mentioned as 8(b) - 'B2' category.                                                                                                                            | The project fall under 8(b) - 'B1' category. Hence, the point shall be revised to 'B1' Category.                                                                                                                                              |
| 2.     | Page No. 5, Project details<br>No. 6 Built up area details<br>S.No.11 Roads -24428.20 sq.m                                                                                                      | Road area in Industrial Housing Facility is 26,737.65 sq.m, which is mentioned in S.No.8. But again the road area of 24,428.20 sq.m. is wrongly mentioned in S.No.11.<br><br>Hence, it is requested to remove road area mentioned in S.No.11. |
| 3.     | Page No. 8, Wastewater management. S.No. 2 - sewage from industries in existing column is mentioned as 435 KLD                                                                                  | As per the earlier issued EC / existing sewage water was envisaged at 405 KLD.<br><br>It is requested to revise the existing sewage quantity as 405 KLD.                                                                                      |
| 4.     | Page No. 12, SEAC remarks No. 1, The Project Proponent shall continuously operate & maintain Sewage Treatment Plant & Grey water treatment plant to achieve standards prescribed by CPCB/TNPCB. | SIPCOT has not proposed STP in the Industrial Park. The individual industries will be having their own STP/ ETP as applicable and treat the wastewater generated as per norms.                                                                |

22 APR 2022

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

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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



## SIPCOT

| S. No. | Points requested for revision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Revision needed                                                                                                                                                                                                                                                                                                                 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>SIPCOT in its lease deed will instruct the individual units to install sewage and wastewater treatment and recycling plant and steps to recover and recycle the wastewater thereby achieve zero liquid discharge as per the norms stipulated by TNPCB/CPCB.</p> <p>It is requested to exempt this condition from the EC.</p> |
| 5.     | <p>Page No.21, Part B Specific conditions Pre construction No. 13.</p> <p>The proponent shall prepare completion plans showing separate pipelines marked with different color codes with following details</p> <ul style="list-style-type: none"><li>• Location of STP, compost system, underground sewer line</li><li>• Pipeline conveying treated effluent for green belt</li><li>• Pipeline conveying treated effluent for toilet</li><li>• Water supply pipeline</li><li>• Gas supply pipeline if proposed</li><li>• Telephone cable</li><li>• Power cable</li><li>• Storm water drain</li><li>• Rainwater harvesting system shall be made available to the owners.</li></ul> | <p>SIPCOT has not proposed STP in the Industrial Park. The individual industries will be having their own STP/ ETP as applicable and treat the waste water generated as per norms.</p> <p>It is requested to exempt this condition from the EC.</p>                                                                             |

We request your good selves to kindly revise the above points in the Environmental Clearance at the earliest.

Thanking you,

Yours faithfully  
Sd/-

MANAGING DIRECTOR

//Forwarded by Order//

*H. Prathapathy*  
GENERAL MANAGER (P-II)

Copy to:

The Project Officer,  
SIPCOT Industrial Park, Vallam Vadagal.

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

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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

# SIPCOT – VALLAM VADAGAL II MONITORING PHOTOS

## AMBIENT AIR QUALITY MONITORING PHOTOS:

**NEAR PROJECT SITE**



**ERAIYUR**



**VALLAKOTTAI**



**VALLAM**



**KOVALAVEDU**



**GROUND WATER SAMPLING PHOTOS**

**PROJECT AREA**



**ERAIYUR**



**VALLAKOTTAI**



**SURFACE WATER SAMPLING PHOTOGRAPH**

**LAKE NEAR PERINJAMBAKKAM**



**THENNERI LAKE**



# SOIL SAMPLING PHOTOGRAPH

**PROJECT AREA**



**ERAIYUR**



**VALLAKOTTAI**



**VALLAM**



# NOISE SAMPLING PHOTOGRAPH

| PROJECT AREA                                                                                          | ERAIYUR                                                                                               |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  <p>14/09/2024</p>   |  <p>14/09/2024</p>  |
| VALLAKOTTAI                                                                                           | VALLAM                                                                                                |
|  <p>14/09/2024</p>  |  <p>14/09/2024</p> |
| KOVALAVEDU                                                                                            |                                                                                                       |
|  <p>14/09/2024</p> |                                                                                                       |

பாசனம் - ஸ்கீமா மாவட்டம் - திருப்பெரும்புளூர் வட்டம் - இரங்காட்டுக் கோட்டை கிராமம் - அப்பகாட் தொழில் வளாகத்தில் அமைந்திருக்கிற தொழிற்சாலை கட்டு- செய்பரம்பாக்கம் ஏரியிலிருந்து இரங்காட்டு மறிமம் நிலங்களுக்கு நீர்ப்பாசனம் போட எடுத்து நீரால் 5 மில்லியன் ரூபாய்கள் - இரங்காட்டு - வட்டம் - கட்டி கொடுக்கப்பட்டுள்ளது.

பொருள்முறை (Expenditure)

அரசு சூலை (நிலை) : 134 நாள்: 31.3.1997

பக்கங்கள்:

1. மேலாங்கம் இயக்குநர், அப்பகாட் தேர்வுக் கமிட்டி என். 1026/96 நாள்: 2.9.1996.
2. தலைமைப்பொறியாளர், நீர்வள ஆதார அமைப்பு, சென்னை மட்டலம், கிருஷ்ணா இரங்காட்டு வழங்கல்சிறை கமிட்டி என். பட்டியல் 1/5250/96, நாள்: 24.12.1996.

24/4

பாரிசை 1ல் கட்ட வேண்டிய அப்பகாட், மேலாங்கம் இயக்குநர் இரங்காட்டுக் கோட்டை அப்பகாட் தொழில் வளாகத்தில், அங்கு அமைக்கப்பட்டிருக்கிற தொழிற்சாலைக்கு தேவையான 1.1 மில்லியன் ரூபாய்கள் தர உட்பட மொத்தம் சுமார் 10 மில்லியன் ரூபாய்கள் தேவை என்று கேட்டுக் கொண்டுள்ளார்.

2. பாரிசை 2ல் கட்ட வேண்டிய தலைமைப்பொறியாளர் நீர் வள ஆதார அமைப்பு சென்னை மட்டலம் மறிமம் கிருஷ்ணா இரங்காட்டு வழங்கல் திட்டம், கட்டிட காலக்காலில் செய்பரம்பாக்கம் ஏரியில் உள்ள நீர் நிலை ஒரே சீராக இருந்ததில்லை என்பது, நீர் கொடுக்கவே 1980ம் ஆண்டு 711 மில்லியன் ரூபாய்கள், 1992ம் ஆண்டு 485 மில்லியன் ரூபாய்கள் என ரூபாய்கள் 1996ம் ஆண்டு 2401 மில்லியன் ரூபாய்களையும் இரங்காட்டு இயக்குநர், மேலும் பதிவு செய்யப் பட்டுள்ள 13,223 ஏக்கர் சூய்ச்சட்டங்களில் தற்போது விவசாயம் செய்யப்பட்டு வரும் 9800 ஏக்கர் நிலங்களுக்கு நீர்ப்பாசனம் செய்து கொடுக்க வேண்டும் என்ற நிலை உள்ளது என்பது குறிப்பிட்டுள்ளார். மேலும் இத்தேரூடு சென்னை மாநகருக்கு இரங்காட்டு வசதியும் செய்பரம்பாக்கம் ஏரியிலிருந்து வழங்க வேண்டியிருப்பதால் நீர் இரங்காட்டு கமிட்டி கொண்டு தான் தரவேண்டும் என்று குறிப்பிட்டுள்ளார்.

3. தலைமைப்பொறியாளர் (சென்னை மட்டலம் மறிமம் கிருஷ்ணா இரங்காட்டு வழங்கல் திட்டம்) டி விளக்கத்தை அருகத்திற்கொண்டு அப்பகாட் தொழில் வளாகத்தினால் செயற்குறிப்பை அரசு பரிசீலித்தல்.

செய்பரம்பாக்கம் ஏரியில் நீர் இரங்காட்டுகளை, பதிவு செய்யப் பட்ட சூய்ச்சட்ட பகுதிகளுக்கான தேவையான தரவேண்டும் சென்னை நகருக்கு இரங்காட்டு தேவையான இரங்காட்டு புரித்த செய்து உரி செய்பரம்பாக்கம்



மாண்புமிகு அமைச்சர் அலுவலகம்  
சென்னை

24/4  
[Signature]

[Signature]

1) AEE.  
Pl. send a copy of this to S IPOOT. GM (In-Pandy)  
for information.

Madam,  
Secty to  
Chairman

... 3 ...  
 ஏற்படுத்தி நான் ஒட்டுக்கு 5 பக்கங்கள் என கூற ஏற்காட் தொழில்  
 வளாசத்திற்கு வழங்குவதற்கு அரசு உடனடியாகவே. மேற்கண்ட பணியை  
 நிறைவேற்றியும், ஏற்காட் தொழில் வளாசத்திற்கு பொதுப்பணித்துறையின் புதிய  
 திட்டங்களைக் கீழ்க் உட்பட்டு ஒப்பந்தத்தில் கையொப்பமிட்ட பின்னர் நீர்  
 வழங்க வேண்டும் என உடனடியாகப் பொதுப்பணித் துறை மூலம் மத்திய  
 அரசுக்குக் குடிநீர் வழங்கல் திட்டம் அனுப்பப்படும்படி அரசு.

(ஆளுநர் துணைப்பல)

என்.பி. சந்திரா,  
 அரசு செயலர்.

பெயர்:

உடனடியாகப் பொதுப்பணித் துறை,  
 நீர்வள துறை அமைப்பு, சென்னை. 5.

உடனடியாகப் பொதுப்பணித் துறை,  
 நீர்வள துறை அமைப்பு,  
 சென்னை மண்டலம் மத்திய அரசுக்குக் குடிநீர்  
 மத்திய வழங்கல் துறை,  
 ✓ மேலாதிக்கமைய கீழ்க் குடிநீர்,  
 தமிழ்நாடு தொழில் வளர்ச்சி துறை,  
 19 ஏ. சூன்யி வடக்கேயுள்ள தோடு,  
 எழும்பூர், சென்னை. 8.  
 இவ்வட்ட சூட்டுவர், துணை மாண்புமிகு.

நாள்:

தொழில்நுறை சென்னை. 5  
 நகராட்சி நிர்வாகம் மத்திய அரசுக்குக் குடிநீர் வழங்கல் துறை,  
 சென்னை. 5.

/ஆளுநர்/அனுப்பப்படும்படி/

சி. சி. சந்திரா  
 அரசு செயலர் 3/4/97



**TEST REPORT**

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(All)  
Sample Mark : Near Project Area  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 5182 Part 5 & Part 14

U/LR : TC1231024000043773F  
Report No : HECS/AP/043/140924  
Sample ID No : 140924100  
Sampling Date : 14/09/2024  
Recv of Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

| S.No.                 | Test Parameters                            | Units              | Results          | Test Method                                            | NAAQ Standards : 2009 |               |
|-----------------------|--------------------------------------------|--------------------|------------------|--------------------------------------------------------|-----------------------|---------------|
| Discipline : Chemical |                                            |                    |                  |                                                        |                       |               |
| 1                     | Arsenic                                    | ng/m <sup>3</sup>  | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP: 041 Issue No.:01 Issue Date:01.03.2021 | 6 (Annual)            | 6 (Annual)    |
| 2                     | Nickel                                     | ng/m <sup>3</sup>  | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP: 041 Issue No.:01 Issue Date:01.03.2021 | 20 (Annual)           | 20 (Annual)   |
| 3                     | Benzene-AAQ                                | µg/m <sup>3</sup>  | BLQ (LOQ: 0.1)   | IS 5182 Part 11: 2006                                  | 5 (Annual)            | 5 (Annual)    |
| 4                     | Benzo (a) pyrene-AAQ                       | ng/m <sup>3</sup>  | BLQ (LOQ: 0.1)   | IS 5182 Part 12: 2003                                  | 1 (Annual)            | 1 (Annual)    |
| 5                     | Ammonia as NH <sub>3</sub>                 | µg/m <sup>3</sup>  | 8.75             | IS 5182 (Part 25) 2018                                 | 400 (24 hours)        | 100 (Annual)  |
| 6                     | Carbon Monoxide (CO)                       | mg/ m <sup>3</sup> | BLQ(LOQ 0.05)    | IS 5182 (Part 10) Clause 4 1999                        | 4 (1 hours)           | 2 (8 hours)   |
| 7                     | Nitrogen dioxide as NO <sub>2</sub>        | µg/m <sup>3</sup>  | 23.81            | IS 5182 (Part 6) 2006                                  | 80 (24 hours)         | 40 (Annual)   |
| 8                     | Ozone as O <sub>3</sub>                    | µg/m <sup>3</sup>  | 10.47            | IS 5182 (Part 9) 1974                                  | 180 (1 hours)         | 100 (8 hours) |
| 9                     | Particulate matter (Size less than 10 µm)  | µg/m <sup>3</sup>  | 56.30            | IS 5182 (Part 23) 2006                                 | 100 (24 hours)        | 60 (Annual)   |
| 10                    | Particulate matter (Size less than 2.5 µm) | µg/m <sup>3</sup>  | 22.81            | IS 5182 (Part 24) 2019                                 | 60 (24 hours)         | 40 (Annual)   |
| 11                    | Sulphur dioxide as SO <sub>2</sub>         | µg/m <sup>3</sup>  | 10.55            | IS 5182 (Part 2) 2001                                  | 80 (24 hours)         | 50 (Annual)   |
| 12                    | Lead                                       | µg/m <sup>3</sup>  | BLQ (LOQ: 0.002) | HECS-G/INS/SOP: 041 Issue                              | 1 (24 hours)          | 0.5 (Annual)  |

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

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

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



D. Anuvya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

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

## Laboratory Services Division

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

### TEST REPORT

Page: 1 of 1

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

Address of the Client : Vallam Vadagal Phase II

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

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

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

Report No. : HECS/AP/043/140924/N

Sample ID No : 140924100

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

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

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

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



D. Anusuya  
Lab Manager  
Authorized Signatory



### TEST REPORT

Page: 1 of 1

Name of the Client : M/s. SIPCOT,  
Address of the Client : Vallam Vadagal Phase II  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
Sample Mark : Erayur  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 5182 Part 5 & Part 14

ULR : TC1231024000043774F  
Report No. : HECS/AP/044/140924  
Sample ID No : 140924101  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

| S.No.                        | Test Parameters                            | Units             | Results          | Test Method                                             | NAAQ Standards : 2009 |               |
|------------------------------|--------------------------------------------|-------------------|------------------|---------------------------------------------------------|-----------------------|---------------|
| <b>Discipline : Chemical</b> |                                            |                   |                  |                                                         |                       |               |
| 1                            | Arsenic                                    | ng/m <sup>3</sup> | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date: 01.03.2021 | 6 (Annual)            | 6 (Annual)    |
| 2                            | Nickel                                     | ng/m <sup>3</sup> | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date: 01.03.2021 | 20 (Annual)           | 20 (Annual)   |
| 3                            | Benzene-AAQ                                | µg/m <sup>3</sup> | BLQ (LOQ: 0.1)   | IS 5182 Part 11: 2006                                   | 5 (Annual)            | 5 (Annual)    |
| 4                            | Benzo (a) pyrene-AAQ                       | ng/m <sup>3</sup> | BLQ (LOQ: 0.1)   | IS : 5182 Part 12: 2004                                 | 1 (Annual)            | 1 (Annual)    |
| 5                            | Ammonia as NH <sub>3</sub>                 | µg/m <sup>3</sup> | 5.21             | IS 5182 (Part 25) 2018                                  | 400 (24 hours)        | 100 (Annual)  |
| 6                            | Carbon Monoxide (CO)                       | mg/m <sup>3</sup> | BLQ (LOQ: 0.05)  | IS 5182 (Part 10) Clause 4 1990                         | 4 (1 hours)           | 2 (8 hours)   |
| 7                            | Nitrogen dioxides as NO <sub>2</sub>       | µg/m <sup>3</sup> | 20.89            | IS 5182 (Part 6) 2006                                   | 80 (24 hours)         | 40 (Annual)   |
| 8                            | Ozone as O <sub>3</sub>                    | µg/m <sup>3</sup> | 12.54            | IS 5182 (Part 9) 1974                                   | 180 (1 hours)         | 100 (8 hours) |
| 9                            | Particulate matter (Size less than 10 µm)  | µg/m <sup>3</sup> | 48.23            | IS 5182 (Part 23) 2006                                  | 100 (24 hours)        | 60 (Annual)   |
| 10                           | Particulate matter (Size less than 2.5 µm) | µg/m <sup>3</sup> | 20.19            | IS 5182 (Part 24) 2019                                  | 60 (24 hours)         | 40 (Annual)   |
| 11                           | Sulphur dioxide as SO <sub>2</sub>         | µg/m <sup>3</sup> | 13.97            | IS 5182 (Part 2) 2001                                   | 80 (24 hours)         | 50 (Annual)   |
| 12                           | Lead                                       | µg/m <sup>3</sup> | BLQ (LOQ: 0.002) | HECS-G/INS/SOP/ 041 Issue                               | 1 (24 hours)          | 0.5 (Annual)  |

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

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

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



D. Anusuya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

## Laboratory Services Division

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

### TEST REPORT

Page: 1 of 1

Name of the Client : M/s. SIPCOT,

Address of the Client : Vallam Vadagal Phase II

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Erayur

Sample Reference : NA

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

Sample Location : NA

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

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

Report No. : HECS/AP/044/140924/N

Sample ID No : 140924101

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
Sample Mark : Vallakottai  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 5182 Part 5 & Part 14

ULR : TC1231024000043775F  
Report No. : HECS/AP/045/140924  
Sample ID No : 140924102  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

| S.No.                        | Test Parameters                            | Units              | Results          | Test Method                                            | NAAQ Standards : 2009 |               |
|------------------------------|--------------------------------------------|--------------------|------------------|--------------------------------------------------------|-----------------------|---------------|
| <b>Discipline : Chemical</b> |                                            |                    |                  |                                                        |                       |               |
| 1                            | Arsenic                                    | ng/m <sup>3</sup>  | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date:01.03.2021 | 6 (Annual)            | 6 (Annual)    |
| 2                            | Nickel                                     | ng/m <sup>3</sup>  | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date:01.03.2021 | 20 (Annual)           | 20 (Annual)   |
| 3                            | Benzene-AAQ                                | µg/m <sup>3</sup>  | BLQ (LOQ: 0.1)   | IS 5182 Part 11: 2006                                  | 5 (Annual)            | 5 (Annual)    |
| 4                            | Benzo (a) pyrene-AAQ                       | ng/m <sup>3</sup>  | BLQ (LOQ: 0.1)   | IS - 5182 Part 12: 2004                                | 1 (Annual)            | 1 (Annual)    |
| 5                            | Ammonia as NH <sub>3</sub>                 | µg/m <sup>3</sup>  | 7.55             | IS 5182 (Part 25) 2018                                 | 400 (24 hours)        | 100 (Annual)  |
| 6                            | Carbon Monoxide (CO)                       | mg/ m <sup>3</sup> | BLQ(LOQ 0.05)    | IS 5182 (Part 10) Clause 4 1999                        | 4 (1 hours)           | 2 (8 hours)   |
| 7                            | Nitrogen dioxides as NO <sub>2</sub>       | µg/m <sup>3</sup>  | 22.81            | IS 5182 (Part 6) 2006                                  | 80 (24 hours)         | 40 (Annual)   |
| 8                            | Ozone as O <sub>3</sub>                    | µg/m <sup>3</sup>  | 10.48            | IS 5182 (Part 9) 1974                                  | 180 (3 hours)         | 100 (8 hours) |
| 9                            | Particulate matter (Size less than 10 µm)  | µg/m <sup>3</sup>  | 45.33            | IS 5182 (Part 23) 2006                                 | 100 (24 hours)        | 60 (Annual)   |
| 10                           | Particulate matter (Size less than 2.5 µm) | µg/m <sup>3</sup>  | 18.49            | IS 5182 (Part 24) 2019                                 | 60 (24 hours)         | 40 (Annual)   |
| 11                           | Sulphur dioxide as SO <sub>2</sub>         | µg/m <sup>3</sup>  | 9.20             | IS 5182 (Part 2) 2001                                  | 80 (24 hours)         | 50 (Annual)   |
| 12                           | Lead                                       | µg/m <sup>3</sup>  | BLQ (LOQ: 0.002) | HECS-G/INS/SOP/ 041 Issue                              | 1 (24 hours)          | 0.5 (Annual)  |

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

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

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

D.Anusuya  
Lab Manager  
Authorized Signatory



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## Laboratory Services Division

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

### TEST REPORT

Page: 1 of 1

|                         |                                                 |                 |                        |
|-------------------------|-------------------------------------------------|-----------------|------------------------|
| Name of the Client      | : M/s. SIPCOT.,                                 | Report No.      | : HECS/AP/045/140924/N |
| Address of the Client   | : Vallam Vadagal Phase II                       | Sample ID No    | : 140924102            |
| Group                   | : Atmospheric Pollution                         | Sampling Date   | : 14/09/2024           |
| Sample Name             | : Ambient Air(AII)                              | Received Date   | : 14/09/2024           |
| Sample Mark             | : Vallakottai                                   | Commenced Date  | : 14/09/2024           |
| Sample Reference        | :NA                                             | Completed On    | : 18/09/2024           |
| Sample Drawn By         | : M/s.Hubert Enviro care Systems (P) Ltd.       | Report Date     | : 18/09/2024           |
| Sample Location         | : NA                                            | Sample quantity | : NA                   |
| Environmental Condition | : Temperature (°C) : 32.0   Humidity (%) : 56.0 |                 |                        |
| Sampling Method & Plan  | : IS 5182 Part 5 & Part 14                      |                 |                        |

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

**TEST REPORT**

Page: 1 of 1

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
Sample Mark : Kovalavedu  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 5182 Part 5 & Part 14

ULR : TC/123102/4000043776F  
Report No. : HECS/AP/046/140924  
Sample ID No. : 140924103  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

| S.No.                        | Test Parameters                            | Units              | Results          | Test Method                                             | NAAQ Standards : 2009 |               |
|------------------------------|--------------------------------------------|--------------------|------------------|---------------------------------------------------------|-----------------------|---------------|
| <b>Discipline : Chemical</b> |                                            |                    |                  |                                                         |                       |               |
| 1                            | Arsenic                                    | ng/m <sup>3</sup>  | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP/ 041 Issue No: 01 Issue Date: 01.03.2021 | 6 (Annual)            | 6 (Annual)    |
| 2                            | Nickel                                     | ng/m <sup>3</sup>  | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP/ 041 Issue No: 01 Issue Date: 01.03.2021 | 20 (Annual)           | 20 (Annual)   |
| 3                            | Benzene-AAQ                                | µg/m <sup>3</sup>  | BLQ (LOQ: 0.1)   | IS 5182 Part 11: 2006                                   | 5 (Annual)            | 5 (Annual)    |
| 4                            | Benzo (a) pyrene-AAQ                       | ng/m <sup>3</sup>  | BLQ (LOQ: 0.1)   | IS 5182 Part 12: 2004                                   | 1 (Annual)            | 1 (Annual)    |
| 5                            | Ammonia as NH <sub>3</sub>                 | µg/m <sup>3</sup>  | 6.79             | IS 5182 (Part 25) 2018                                  | 400 (24 hours)        | 100 (Annual)  |
| 6                            | Carbon Monoxide (CO)                       | mg/ m <sup>3</sup> | BLQ(LOQ 0.05)    | IS 5182 (Part 10) Clause 4 1999                         | 4 (1 hours)           | 2 (8 hours)   |
| 7                            | Nitrogen dioxides as NO <sub>2</sub>       | µg/m <sup>3</sup>  | 26.43            | IS 5182 (Part 6) 2006                                   | 80 (24 hours)         | 40 (Annual)   |
| 8                            | Ozone as O <sub>3</sub>                    | µg/m <sup>3</sup>  | 12.59            | IS 5182 (Part 9) 1974                                   | 180 (1 hours)         | 100 (8 hours) |
| 9                            | Particulate matter (Size less than 10 µm)  | µg/m <sup>3</sup>  | 49.21            | IS 5182 (Part 23) 2006                                  | 100 (24 hours)        | 60 (Annual)   |
| 10                           | Particulate matter (Size less than 2.5 µm) | µg/m <sup>3</sup>  | 24.85            | IS 5182 (Part 24) 2019                                  | 60 (24 hours)         | 40 (Annual)   |
| 11                           | Sulphur dioxide as SO <sub>2</sub>         | µg/m <sup>3</sup>  | 11.68            | IS 5182 (Part 2) 2001                                   | 80 (24 hours)         | 30 (Annual)   |
| 12                           | Lead                                       | µg/m <sup>3</sup>  | BLQ (LOQ: 0.002) | HECS-G/INS/SOP/ 041 Issue                               | 1 (24 hours)          | 0.5 (Annual)  |

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

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

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



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### TEST REPORT

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

Address of the Client : Vallam Vadagal Phase II

Group : Atmospheric Pollution

Sample Name : Ambient Air(AI)

Sample Mark : Kovalavedu

Sample Reference : NA

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

Sample Location : NA

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

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

Report No. : HECS/AP/046/140924/N

Sample ID No. : 140924103

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

| S.No.                 | Test Parameters | Units | Results        | Test Method                                               |
|-----------------------|-----------------|-------|----------------|-----------------------------------------------------------|
| Discipline : Chemical |                 |       |                |                                                           |
| 1                     | TVOC            | ppmv  | BLQ(LOQ 0.120) | HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02:07 2020 |

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

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



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### TEST REPORT

Page: 1 of 1

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(Air)  
Sample Mark : Vallam  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 5182 Part 5 & Part 14

U/LR : TC1231024000044806F  
Report No. : HECS/AP/047/140924  
Sample ID No : 140924104  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 24/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

| S.No.                        | Test Parameters                            | Units             | Results          | Test Method                                            | NAAQ Standards : 2009 |               |
|------------------------------|--------------------------------------------|-------------------|------------------|--------------------------------------------------------|-----------------------|---------------|
| <b>Discipline : Chemical</b> |                                            |                   |                  |                                                        |                       |               |
| 1                            | Arsenic                                    | ng/m <sup>3</sup> | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP: 041 Issue No.:01 Issue Date:01.03.2021 | 6 (Annual)            | 6 (Annual)    |
| 2                            | Nickel                                     | ng/m <sup>3</sup> | BLQ (LOQ: 2.0)   | HECS-G/INS/SOP: 041 Issue No.:01 Issue Date:01.03.2021 | 20 (Annual)           | 20 (Annual)   |
| 3                            | Benzene-AAQ                                | µg/m <sup>3</sup> | BLQ (LOQ: 0.1)   | IS 5182 Part 11: 2006                                  | 5 (Annual)            | 5 (Annual)    |
| 4                            | Benzene (a) pyrene-AAQ                     | ng/m <sup>3</sup> | BLQ (LOQ: 0.1)   | IS 5182 Part 12: 2004                                  | 1 (Annual)            | 1 (Annual)    |
| 5                            | Ammonia as NH <sub>3</sub>                 | µg/m <sup>3</sup> | 6.15             | IS 5182 (Part 25) 2018                                 | 400 (24 hours)        | 100 (Annual)  |
| 6                            | Carbon Monoxide (CO)                       | mg/m <sup>3</sup> | BLQ(LOQ 0.05)    | IS 5182 (Part 10) Clause 4 1999                        | 4 (1 hours)           | 2 (8 hours)   |
| 7                            | Nitrogen dioxide as NO <sub>2</sub>        | µg/m <sup>3</sup> | 21.69            | IS 5182 (Part 6) 2006                                  | 80 (24 hours)         | 40 (Annual)   |
| 8                            | Ozone as O <sub>3</sub>                    | µg/m <sup>3</sup> | 10.63            | IS 5182 (Part 9) 1974                                  | 180 (1 hours)         | 100 (8 hours) |
| 9                            | Particulate matter (Size less than 10 µm)  | µg/m <sup>3</sup> | 46.17            | IS 5182 (Part 23) 2006                                 | 100 (24 hours)        | 60 (Annual)   |
| 10                           | Particulate matter (Size less than 2.5 µm) | µg/m <sup>3</sup> | 20.63            | IS 5182 (Part 24) 2019                                 | 60 (24 hours)         | 40 (Annual)   |
| 11                           | Sulphur dioxide as SO <sub>2</sub>         | µg/m <sup>3</sup> | 11.96            | IS 5182 (Part 2) 2001                                  | 80 (24 hours)         | 50 (Annual)   |
| 12                           | Lead                                       | µg/m <sup>3</sup> | BLQ (LOQ: 0.002) | HECS-G/INS/SOP: 041 Issue                              | 1 (24 hours)          | 0.5 (Annual)  |

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

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

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



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### TEST REPORT

Page : 1 of 1

|                         |                                                 |                 |                        |
|-------------------------|-------------------------------------------------|-----------------|------------------------|
| Name of the Client      | : M/s. SIPCOT,,                                 | Report No.      | : HECS/AP/047/140924/N |
| Address of the Client   | : Vallam Vadagal Phase II                       | Sample ID No.   | : 140924104            |
| Group                   | : Atmospheric Pollution                         | Sampling Date   | : 14/09/2024           |
| Sample Name             | : Ambient Air(AI)                               | Received Date   | : 14/09/2024           |
| Sample Mark             | : Vallam                                        | Commenced Date  | : 14/09/2024           |
| Sample Reference        | :NA                                             | Completed On    | : 24/09/2024           |
| Sample Drawn By         | : M/s.Hubert Enviro care Systems (P) Ltd.       | Report Date     | : 18/09/2024           |
| Sample Location         | : NA                                            | Sample quantity | : NA                   |
| Environmental Condition | : Temperature (°C) : 32.0   Humidity (%) : 56.0 |                 |                        |
| Sampling Method & Plan  | : IS 5182 Part 5 & Part 14                      |                 |                        |

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

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



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### TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadugai Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

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

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

U/LR : TC1231024000044327F

Report No. : HECSL/WT/039/140924

Sample ID No : 140924111

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No.                        | Test Parameters                                 | Units       | Results       | Test Method                                          | IS 10500 : 2012         |                          |
|------------------------------|-------------------------------------------------|-------------|---------------|------------------------------------------------------|-------------------------|--------------------------|
|                              |                                                 |             |               |                                                      | Acceptable Limits (Max) | Permissible Limits (Max) |
| <b>Discipline : Chemical</b> |                                                 |             |               |                                                      |                         |                          |
| 1                            | Ammonia as NH <sub>3</sub>                      | mg/l        | BLQ(LOQ:0.02) | IS 3025 Part 34- Sec 2: 2021 (Nesslerization Method) | 0.5                     | No relaxation            |
| 2                            | Anionic Surface Active agents as MBAS           | mg/l        | BLQ(LOQ:0.05) | APHA 23rd edition (Method 5540 B, C): 2017           | 0.2                     | 1                        |
| 3                            | Bi carbonate                                    | mg/l        | 160.0         | IS 3025 Part 51: 2001                                | NA                      | NA                       |
| 4                            | Biological Oxygen Demand (BOD)@ 27°C For 3 days | mg/l        | BLQ(LOQ:2.0)  | IS 3025 Part 44: 1993                                | NA                      | NA                       |
| 5                            | Boron as B                                      | mg/l        | BLQ(LOQ:0.1)  | IS 3025 Part 57 -Curcumin Method: 2021               | 0.5                     | 2.4                      |
| 6                            | Calcium as Ca                                   | mg/l        | 68.14         | IS 3025 Part 40: 1991(EDTA Titrimetric Method)       | 75                      | 200                      |
| 7                            | Carbonate                                       | mg/l        | BLQ(LOQ:1.0)  | IS 3025 Part 51: 2001                                | NA                      | NA                       |
| 8                            | Chemical Oxygen Demand (COD)                    | mg/l        | BLQ(LOQ:4.0)  | IS 3025 Part 58: 2006                                | NA                      | NA                       |
| 9                            | Chloride as Cl                                  | mg/l        | 205.76        | IS 3025 Part 32: 1988 (Argentometric Method)         | 250                     | 1000                     |
| 10                           | Colour                                          | Hazen units | BLQ(LOQ:1.0)  | IS 3025 (Part4): 2021                                | 5                       | 15                       |
| 11                           | Cyanide as CN                                   | mg/l        | BLQ(LOQ:0.01) | IS 3025 Part 27 Sec 1: 2021                          | 0.05                    | No relaxation            |
| 12                           | Dissolved oxygen                                | mg/l        | 6.5           | IS 3025 (Part 38): 1989 ( Titrimetri Method)         | NA                      | NA                       |



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Lab Manager  
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**TEST REPORT**

Page : 2 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044327F

Report No. : HECSL/WT/039/140924

Sample ID No. : 140924111

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No. | Test Parameters                 | Units                        | Results        | Test Method                                                | IS 10500 : 2012         |                          |
|-------|---------------------------------|------------------------------|----------------|------------------------------------------------------------|-------------------------|--------------------------|
|       |                                 |                              |                |                                                            | Acceptable Limits (Max) | Permissible Limits (Max) |
| 13    | Electrical Conductivity at 25°C | µS/cm                        | 1187.0         | IS 3025 Part-14: 2013                                      | NA                      | NA                       |
| 14    | Fluoride as F                   | mg/l                         | 0.41           | APHA 23rd edition (Method 4500F-B, D): 2017                | 1.0                     | 1.5                      |
| 15    | Iron as Fe                      | mg/l                         | 0.081          | IS 3025 (Part 53): 2003                                    | 1.0                     | No relaxation            |
| 16    | Magnesium as Mg                 | mg/l                         | 36.45          | IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)      | 30                      | 100                      |
| 17    | Nitrate as NO3                  | mg/l                         | 9.21           | APHA 23rd edition (Method 4500 NO3B): 2017                 | 45                      | No relaxation            |
| 18    | Percent Sodium                  | %                            | 38.81          | HECS /WT/SOP/002: 2019                                     | NA                      | NA                       |
| 19    | pH at 25°C                      | -                            | 7.61           | IS 3025(Part 11) : 2022 ( Electrometric method)            | 6.5-8.5                 | No relaxation            |
| 20    | Phenolic compounds as C6H5OH    | mg/l                         | BLQ(LOQ:0.001) | IS 3025 Part 43 Sec 1: 2022                                | 0.001                   | 0.002                    |
| 21    | Potassium as K                  | mg/l                         | 8.0            | IS 3025 Part 45: 1993 ( Flame emission Photometric Method) | NA                      | NA                       |
| 22    | Residual Sodium Carbonate       | meq/l                        | BLQ(LOQ:1.0)   | IS 11624: 2019                                             | NA                      | NA                       |
| 23    | Sodium Adsorption Ratio(SAR)    | Square root of (millimole/l) | 2.35           | IS 11624 : 2019                                            | NA                      | NA                       |
| 24    | Sodium as Na                    | mg/l                         | 97.0           | IS 3025 Part 45: 1993 ( Flame emission Photometric Method) | NA                      | NA                       |



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### TEST REPORT

Page : 3 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044327F

Report No. : HECSL/WT/039/140924

Sample ID No : 140924111

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres.

| S.No. | Test Parameters                       | Units | Results          | Test Method                                            | IS 10500 : 2012         |                          |
|-------|---------------------------------------|-------|------------------|--------------------------------------------------------|-------------------------|--------------------------|
|       |                                       |       |                  |                                                        | Acceptable Limits (Max) | Permissible Limits (Max) |
| 25    | Sulphate as SO <sub>4</sub>           | mg/l  | 91.34            | IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)         | 200                     | 400                      |
| 26    | Total alkalinity as CaCO <sub>3</sub> | mg/l  | 160.0            | IS 3025 (Part 23): 1986                                | 200                     | 600                      |
| 27    | Total dissolved solids                | mg/l  | 665.0            | IS 3025 (Part 16): 1984                                | 500                     | 2000                     |
| 28    | Total Suspended Solids                | mg/l  | BLQ(LOQ:2.0)     | IS 3025 (Part 17): 1984                                | NA                      | NA                       |
| 29    | Phosphate as PO <sub>4</sub>          | mg/l  | 0.12             | IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method) | NA                      | NA                       |
| 30    | Phosphorous as P                      | mg/l  | BLQ(LOQ:0.03)    | IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method) | NA                      | NA                       |
| 31    | Total hardness as CaCO <sub>3</sub>   | mg/l  | 320.0            | IS 3025 (Part 21): 2009                                | 200                     | 600                      |
| 32    | Turbidity, NTU                        | NTU   | 0.5              | IS 3025 (Part 10): 1984                                | 1                       | 5                        |
| 33    | Arsenic                               | mg/l  | BLQ (LOQ: 0.005) | USEPA 200.8 : 1994                                     | 0.01                    | No relaxation            |
| 34    | Barium                                | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.7                     | No relaxation            |
| 35    | Cadmium                               | mg/l  | BLQ (LOQ: 0.001) | USEPA 200.8 : 1994                                     | 0.003                   | No relaxation            |
| 36    | Chromium                              | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.05                    | No relaxation            |
| 37    | Copper                                | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.05                    | 1.5                      |



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**TEST REPORT**

Page : 4 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044327F

Report No. : HECSL/WT/039/140924

Sample ID No : 140924111

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres.

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



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## Laboratory Services Division

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

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Ground Water (All)  
Sample Mark : Near Project Area  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C): 28.0 | Humidity (%): 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/0139/140924/N  
Sample ID No : 140924111  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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



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### TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Eraiyur

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044328F

Report No. : HECSL/WT/040/140924

Sample ID No : 140924112

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No.                        | Test Parameters                                                | Units       | Results       | Test Method                                         | IS 10500 : 2012         |                          |
|------------------------------|----------------------------------------------------------------|-------------|---------------|-----------------------------------------------------|-------------------------|--------------------------|
|                              |                                                                |             |               |                                                     | Acceptable Limits (Max) | Permissible Limits (Max) |
| <b>Discipline : Chemical</b> |                                                                |             |               |                                                     |                         |                          |
| 1                            | Ammonia as NH <sub>3</sub>                                     | mg/l        | BLQ(LOQ:0.02) | IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method) | 0.5                     | No relaxation            |
| 2                            | Anionic Surface Active agents as MBAS                          | mg/l        | BLQ(LOQ:0.05) | APHA 23rd edition (Method 5540 B, C): 2017          | 0.2                     | 1                        |
| 3                            | Bi carbonate                                                   | mg/l        | 220.0         | IS 3025 Part 51: 2001                               | NA                      | NA                       |
| 4                            | Biological Oxygen Demand (BOD) <sub>@ 27°C</sub><br>For 3 days | mg/l        | 52.10         | IS 3025 Part 44: 1993                               | NA                      | NA                       |
| 5                            | Boron as B                                                     | mg/l        | BLQ(LOQ:0.1)  | IS 3025 Part 57 -Curcumin Method: 2021              | 0.5                     | 2.4                      |
| 6                            | Calcium as Ca                                                  | mg/l        | 48.50         | IS 3025 Part 40: 1991(EDTA Titrimetric Method)      | 75                      | 200                      |
| 7                            | Carbonate                                                      | mg/l        | BLQ(LOQ:1.0)  | IS 3025 Part 51: 2001                               | NA                      | NA                       |
| 8                            | Chemical Oxygen Demand (COD)                                   | mg/l        | BLQ(LOQ:4.0)  | IS 3025 Part 58: 2006                               | NA                      | NA                       |
| 9                            | Chloride as Cl                                                 | mg/l        | 156.77        | IS 3025 Part 32: 1988 (Argentometric Method)        | 250                     | 1000                     |
| 10                           | Colour                                                         | Hazen units | BLQ(LOQ:1.0)  | IS 3025 (Part4): 2021                               | 5                       | 15                       |
| 11                           | Cyanide as CN                                                  | mg/l        | BLQ(LOQ:0.01) | IS 3025 Part 27 Sec 1: 2021                         | 0.05                    | No relaxation            |
| 12                           | Dissolved oxygen                                               | mg/l        | 6.8           | IS 3025 (Part 38): 1989 ( Titrimetri Method)        | NA                      | NA                       |



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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT.

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Eraiyur

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044328F

Report No. : HECSL/WT/040/140924

Sample ID No. : 140924112

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No. | Test Parameters                                        | Units                          | Results        | Test Method                                                | IS 10500 : 2012         |                          |
|-------|--------------------------------------------------------|--------------------------------|----------------|------------------------------------------------------------|-------------------------|--------------------------|
|       |                                                        |                                |                |                                                            | Acceptable Limits (Max) | Permissible Limits (Max) |
| 13    | Electrical Conductivity at 25°C                        | µS/cm                          | 761.0          | IS 3025 Part-14: 2013                                      | NA                      | NA                       |
| 14    | Fluoride as F <sup>-</sup>                             | mg/l                           | 0.44           | APHA 23rd edition (Method 4500F-H, D): 2017                | 1.0                     | 1.5                      |
| 15    | Iron as Fe                                             | mg/l                           | 0.056          | IS 3025 (Part 53): 2003                                    | 1.0                     | No relaxation            |
| 16    | Magnesium as Mg                                        | mg/l                           | 29.16          | IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)      | 30                      | 100                      |
| 17    | Nitrate as NO <sub>3</sub>                             | mg/l                           | 4.68           | APHA 23rd edition (Method 4500 NO <sub>3</sub> B): 2017    | 45                      | No relaxation            |
| 18    | Percent Sodium                                         | %                              | 38.71          | HECS /WT/SOP/002: 2019                                     | NA                      | NA                       |
| 19    | pH at 25°C                                             | -                              | 8.12           | IS 3025(Part 11) : 2022 ( Electrometric method)            | 6.5-8.5                 | No relaxation            |
| 20    | Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH | mg/l                           | BLQ(LOQ:0.001) | IS 3025 Part 43 Sec 1: 2022                                | 0.001                   | 0.002                    |
| 21    | Potassium as K                                         | mg/l                           | 5.0            | IS 3025 Part 45: 1993 ( Flame emission Photometric Method) | NA                      | NA                       |
| 22    | Residual Sodium Carbonate                              | meq/l                          | BLQ(LOQ:1.0)   | IS 11624: 2019                                             | NA                      | NA                       |
| 23    | Sodium Adsorption Ratio(SAR)                           | Square root of (millimole/lit) | 2.06           | IS 11624 : 2019                                            | NA                      | NA                       |
| 24    | Sodium as Na                                           | mg/l                           | 75.0           | IS 3025 Part 45: 1993 ( Flame emission Photometric Method) | NA                      | NA                       |



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Lab Manager  
Authorized Signatory

**TEST REPORT**

Page: 3 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Eraiyur

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044328F

Report No. : HECST/WT/040/140924

Sample ID No : 140924112

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres.

| S.No. | Test Parameters                       | Units | Results          | Test Method                                            | IS 10500 : 2012         |                          |
|-------|---------------------------------------|-------|------------------|--------------------------------------------------------|-------------------------|--------------------------|
|       |                                       |       |                  |                                                        | Acceptable Limits (Max) | Permissible Limits (Max) |
| 25    | Sulphate as SO <sub>4</sub>           | mg/l  | 54.37            | IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)         | 200                     | 400                      |
| 26    | Total alkalinity as CaCO <sub>3</sub> | mg/l  | 220.0            | IS 3025 (Part 23): 1986                                | 200                     | 600                      |
| 27    | Total dissolved solids                | mg/l  | 418.0            | IS 3025 (Part 16): 1984                                | 500                     | 2000                     |
| 28    | Total Suspended Solids                | mg/l  | BLQ (LOQ: 2.0)   | IS 3025 (Part 17): 1984                                | NA                      | NA                       |
| 29    | Phosphate as PO <sub>4</sub>          | mg/l  | 0.096            | IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method) | NA                      | NA                       |
| 30    | Phosphorous as P                      | mg/l  | 0.029            | IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method) | NA                      | NA                       |
| 31    | Total hardness as CaCO <sub>3</sub>   | mg/l  | 250.0            | IS 3025 (Part 21): 2009                                | 200                     | 600                      |
| 32    | Turbidity, NTU                        | NTU   | 0.4              | IS 3025 (Part 10): 1984                                | 1                       | 5                        |
| 33    | Arsenic                               | mg/l  | BLQ (LOQ: 0.005) | USEPA 200.8 : 1994                                     | 0.01                    | No relaxation            |
| 34    | Barium                                | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.7                     | No relaxation            |
| 35    | Cadmium                               | mg/l  | BLQ (LOQ: 0.001) | USEPA 200.8 : 1994                                     | 0.003                   | No relaxation            |
| 36    | Chromium                              | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.05                    | No relaxation            |
| 37    | Copper                                | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.05                    | 1.5                      |

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### TEST REPORT

Page : 4 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Eralyur

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044328F

Report No. : HECSL/WT/040/140924

Sample ID No : 140924112

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

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

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

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



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### TEST REPORT

Page: 1 of 1

Name of the Client : Ms. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Ground Water (All)  
Sample Mark : Near Eraiyur  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/040/140924/N  
Sample ID No : 140924112  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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



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### TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044329F

Report No. : HECSL/WT/041/140924

Sample ID No. : 140924113

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No.                        | Test Parameters                                 | Units       | Results       | Test Method                                          | IS 10500 : 2012         |                          |
|------------------------------|-------------------------------------------------|-------------|---------------|------------------------------------------------------|-------------------------|--------------------------|
|                              |                                                 |             |               |                                                      | Acceptable Limits (Max) | Permissible Limits (Max) |
| <b>Discipline : Chemical</b> |                                                 |             |               |                                                      |                         |                          |
| 1                            | Ammonia as NH3                                  | mg/l        | BLQ(LOQ:0.02) | IS 3025 Part 34, Sec 7: 2021 (Nesslerization Method) | 0.5                     | No relaxation            |
| 2                            | Anionic Surface Active agents as MBAS           | mg/l        | BLQ(LOQ:0.05) | APHA 23rd edition (Method 5540 B, C): 2017           | 0.2                     | 1                        |
| 3                            | Bi carbonate                                    | mg/l        | 170.0         | IS 3025 Part 51: 2001                                | NA                      | NA                       |
| 4                            | Biological Oxygen Demand (BOD)@ 27°C For 3 days | mg/l        | BLQ(LOQ:2.0)  | IS 3025 Part 44: 1993                                | NA                      | NA                       |
| 5                            | Boron as B                                      | mg/l        | BLQ(LOQ:0.1)  | IS 3025 Part 57 - Curcumin Method: 2021              | 0.5                     | 2.4                      |
| 6                            | Calcium as Ca                                   | mg/l        | 64.12         | IS 3025 Part 40: 1991(EDTA Titrimetric Method)       | 75                      | 200                      |
| 7                            | Carbonate                                       | mg/l        | BLQ(LOQ:1.0)  | IS 3025 Part 51: 2001                                | NA                      | NA                       |
| 8                            | Chemical Oxygen Demand (COD)                    | mg/l        | BLQ(LOQ:4.0)  | IS 3025 Part 58: 2006                                | NA                      | NA                       |
| 9                            | Chloride as Cl                                  | mg/l        | 191.07        | IS 3025 Part 32: 1988 (Argentometric Method)         | 250                     | 1000                     |
| 10                           | Colour                                          | Hazen units | BLQ(LOQ:1.0)  | IS 3025 (Part 4): 2021                               | 5                       | 15                       |
| 11                           | Cyanide as CN                                   | mg/l        | BLQ(LOQ:0.01) | IS 3025 Part 27 Sec 1: 2021                          | 0.05                    | No relaxation            |
| 12                           | Dissolved oxygen                                | mg/l        | 6.7           | IS 3025 (Part 38): 1989 (Titrimetric Method)         | NA                      | NA                       |



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Lab Manager  
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**TEST REPORT**

Page : 2 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

U.I.R : TC1231024000044329F

Report No. : HECSL/WT/041/140924

Sample ID No : 140924113

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No. | Test Parameters                 | Units                          | Results         | Test Method                                                | IS 10500 : 2012         |                          |
|-------|---------------------------------|--------------------------------|-----------------|------------------------------------------------------------|-------------------------|--------------------------|
|       |                                 |                                |                 |                                                            | Acceptable Limits (Max) | Permissible Limits (Max) |
| 13    | Electrical Conductivity at 25°C | µS/cm                          | 1114.0          | IS 3025 Part-14: 2013                                      | NA                      | NA                       |
| 14    | Fluoride as F-                  | mg/l                           | 0.41            | APHA 23rd edition (Method 4500F-B, D): 2017                | 1.0                     | 1.5                      |
| 15    | Iron as Fe                      | mg/l                           | 0.066           | IS 3025 (Part 53): 2003                                    | 1.0                     | No relaxation            |
| 16    | Magnesium as Mg                 | mg/l                           | 36.45           | IS 3025 Part 46, 1994 ( Volumetric Method using EDTA)      | 30                      | 100                      |
| 17    | Nitrate as NO3                  | mg/l                           | 6.69            | APHA 23rd edition (Method 4500 NO3B): 2017                 | 45                      | No relaxation            |
| 18    | Percent Sodium                  | %                              | 38.47           | HECS /WT/SOP002: 2019                                      | NA                      | NA                       |
| 19    | pH at 25°C                      | -                              | 7.75            | IS 3025(Part 11) : 2022 ( Electrometric method)            | 6.5-8.5                 | No relaxation            |
| 20    | Phenolic compounds as C6H5OH    | mg/l                           | BLQ(L.OQ:0.001) | IS 3025 Part 43 Sec 1: 2022                                | 0.001                   | 0.002                    |
| 21    | Potassium as K                  | mg/l                           | 6.0             | IS 3025 Part 45: 1993 ( Flame emission Photometric Method) | NA                      | NA                       |
| 22    | Residual Sodium Carbonate       | meq/l                          | BLQ(L.OQ:1.0)   | IS 11624: 2019                                             | NA                      | NA                       |
| 23    | Sodium Adsorption Ratio(SAR)    | Square root of (millimole/lit) | 2.26            | IS 11624 : 2019                                            | NA                      | NA                       |
| 24    | Sodium as Na                    | mg/l                           | 92.0            | IS 3025 Part 45: 1993 ( Flame emission Photometric Method) | NA                      | NA                       |

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Lab Manager  
Authorized Signatory



**TEST REPORT**

Page : 3 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044329F

Report No. : HECSL/WT/041/140924

Sample ID No. : 140924113

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No. | Test Parameters                       | Units | Results          | Test Method                                            | IS 10500 : 2012         |                          |
|-------|---------------------------------------|-------|------------------|--------------------------------------------------------|-------------------------|--------------------------|
|       |                                       |       |                  |                                                        | Acceptable Limits (Max) | Permissible Limits (Max) |
| 25    | Sulphate as SO <sub>4</sub>           | mg/l  | 71.36            | IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)         | 200                     | 400                      |
| 26    | Total alkalinity as CaCO <sub>3</sub> | mg/l  | 170.0            | IS 3025 (Part 23): 1986                                | 200                     | 600                      |
| 27    | Total dissolved solids                | mg/l  | 664.0            | IS 3025 (Part 16): 1984                                | 500                     | 2000                     |
| 28    | Total Suspended Solids                | mg/l  | 2.0              | IS 3025 (Part 17): 1984                                | NA                      | NA                       |
| 29    | Phosphate as PO <sub>4</sub>          | mg/l  | BLQ(LOQ:0.02)    | IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method) | NA                      | NA                       |
| 30    | Phosphorous as P                      | mg/l  | BLQ(LOQ:0.02)    | IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method) | NA                      | NA                       |
| 31    | Total hardness as CaCO <sub>3</sub>   | mg/l  | 310.0            | IS 3025 (Part 21): 2009                                | 200                     | 600                      |
| 32    | Turbidity, NTU                        | NTU   | 1.3              | IS 3025 (Part 10): 1984                                | 1                       | 5                        |
| 33    | Arsenic                               | mg/l  | BLQ (LOQ: 0.005) | USEPA 200.8 : 1994                                     | 0.01                    | No relaxation            |
| 34    | Barium                                | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.7                     | No relaxation            |
| 35    | Cadmium                               | mg/l  | BLQ (LOQ: 0.001) | USEPA 200.8 : 1994                                     | 0.003                   | No relaxation            |
| 36    | Chromium                              | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.05                    | No relaxation            |
| 37    | Copper                                | mg/l  | BLQ (LOQ: 0.01)  | USEPA 200.8 : 1994                                     | 0.05                    | 1.5                      |

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Authorized Signatory

**TEST REPORT**

Page : 4 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

UIR : TC1231024000044329F

Report No. : HECSL/WT/041/140924

Sample ID No : 140924113

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

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

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

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



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## Laboratory Services Division

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### TEST REPORT

Page: 1 of 1

Name of the Client : M/s. SIPCOT,,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Ground Water (All)  
Sample Mark : Near Vallakottai  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/041/140924/N  
Sample ID No. : 140924113  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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



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### TEST REPORT

Page: 1 of 4

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Theneri Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000044330F  
Report No. : HECSL/WT/042/140924  
Sample ID No : 140924114  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres.

| S.No.                 | Test Parameters                                 | Units       | Results      | Test Method                                    | Surface water Standards (IS 2296- Class-A) |
|-----------------------|-------------------------------------------------|-------------|--------------|------------------------------------------------|--------------------------------------------|
| Discipline : Chemical |                                                 |             |              |                                                |                                            |
| 1                     | Ammonia as NH <sub>3</sub>                      | mg/l        | BLQ(LOQ:002) | IS 3025 Part 34 Sec 2: 2021                    | NA                                         |
| 2                     | Bi carbonate                                    | mg/l        | 180.0        | IS 3025 Part 51: 2001                          | NA                                         |
| 3                     | Biological Oxygen Demand (BOD)@ 27°C For 3 days | mg/l        | 2.0          | IS 3025 Part 44: 1993                          | 2                                          |
| 4                     | Boron as B                                      | mg/l        | BLQ(LOQ:0.1) | IS 3025 Part 57: 2021 ( Curcumin Method)       | NA                                         |
| 5                     | Calcium as Ca                                   | mg/l        | 44.09        | IS 3025 Part 40: 1991(EDTA Titrimetric Method) | 80.10                                      |
| 6                     | Chemical Oxygen Demand (COD)                    | mg/l        | 24.0         | IS 3025 Part 58: 2006                          | NA                                         |
| 7                     | Chloride as Cl                                  | mg/l        | 146.97       | IS 3025 Part 32: 1988 ( Argentometric Method)  | 250                                        |
| 8                     | Colour                                          | Hazen units | BLQ(LOQ:1.0) | IS 3025 Part 4: 2021                           | 10                                         |
| 9                     | Dissolved oxygen                                | mg/l        | 6.0          | IS 3025 Part 38: 1989                          | 6                                          |
| 10                    | Electrical Conductivity at 25°C                 | µS/cm       | 836.0        | IS:3025 Part 14: 2013                          | NA                                         |
| 11                    | Fluoride as F                                   | mg/l        | 0.39         | APHA 23rd edition Method 4500 F -B,D: 2017     | 1.5                                        |
| 12                    | Iron as Fe                                      | mg/l        | 0.11         | IS 3025 Part 53: 2003                          | 0.3                                        |
| 13                    | Nitrate as NO <sub>3</sub>                      | mg/l        | 10.14        | APHA 23rd edition Method 4500 NO3B: 2017       | 20                                         |

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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT,

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Theneri Lake

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC123102400004330F

Report No. : HECSL/WT/042/140924

Sample ID No. : 140924114

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No. | Test Parameters                       | Units                          | Results        | Test Method                                           | Surface water Standards (IS 2296, Class-A) |
|-------|---------------------------------------|--------------------------------|----------------|-------------------------------------------------------|--------------------------------------------|
| 14    | pH at 25°C                            | -                              | 7.98           | IS 3025 Part 11: 2022 ( Electrometric Method)         | 8.5                                        |
| 15    | Total dissolved solids                | mg/l                           | 461.0          | IS 3025 Part 16: 1984                                 | 500                                        |
| 16    | Anionic Surface Active agents as MBAS | mg/l                           | BLQ(LOQ:0.05)  | APHA 23rd edition Method 5540 B, C: 2017              | 0.2                                        |
| 17    | Carbonate                             | mg/l                           | BLQ(LOQ:1.0)   | IS 3025 Part 51: 2001                                 | NA                                         |
| 18    | Cyanide as CN                         | mg/l                           | BLQ(LOQ:0.01)  | IS 3025 Part 27 sec 1: 2021                           | 0.05                                       |
| 19    | Magnesium as Mg                       | mg/l                           | 24.3           | IS 3025 Part 46: 1994 ( Volumetric Method using EDTA) | 24.28                                      |
| 20    | Percent Sodium                        | %                              | 41.47          | HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021 | NA                                         |
| 21    | Phenolic compounds as C6H5OH          | mg/l                           | BLQ(LOQ:0.001) | IS 3025 Part 43:Sec 1: 2022                           | 0.002                                      |
| 22    | Phosphate as PO4                      | mg/l                           | 0.15           | APHA 23rd edition Method 4500-P B.D: 2017             | NA                                         |
| 23    | Potassium as K                        | mg/l                           | 5.0            | IS 3025 Part 45: 1993                                 | NA                                         |
| 24    | Residual Sodium Carbonate             | mg/l                           | BLQ(LOQ:1.0)   | IS 11624: 2019                                        | NA                                         |
| 25    | Sodium Adsorption Ratio(SAR)          | Square root of (millimole/lit) | 2.12           | IS 11624: 2019                                        | NA                                         |



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Theneri Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000044330F  
Report No. : HECSL/WT/042/140924  
Sample ID No : 140924114  
Sampling Date : 14/09/2024

Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

| S.No. | Test Parameters           | Units | Results           | Test Method                 | Surface water Standards (IS 2296, Class-A) |
|-------|---------------------------|-------|-------------------|-----------------------------|--------------------------------------------|
| 26    | Sodium as Na              | mg/l  | 71.0              | IS 3025 Part 45: 1985       | NA                                         |
| 27    | Sulphate as SO4           | mg/l  | 27.51             | IS 3025 Part 24 Sec 1: 2022 | 400                                        |
| 28    | Total alkalinity as CaCO3 | mg/l  | 180.0             | IS 3025 Part 23: 1986       | NA                                         |
| 29    | Total Hardness as CaCO3   | mg/l  | 210.0             | IS 3025 Part 21: 2009       | 300                                        |
| 30    | Total Phosphorous as P    | mg/l  | 0.045             | IS 3025 Part 31 Sec 1: 2022 | NA                                         |
| 31    | Total Suspended Solids    | mg/l  | 4.0               | IS 3025 Part 17: 1984       | NA                                         |
| 32    | Turbidity                 | NTU   | 1.9               | IS 3025 Part 10: 1984       | 1                                          |
| 33    | Arsenic                   | mg/l  | BLQ (LOQ: 0.005)  | USEPA 200.8 : 1994          | 0.05                                       |
| 34    | Barium                    | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 1                                          |
| 35    | Cadmium                   | mg/l  | BLQ (LOQ: 0.001)  | USEPA 200.8 : 1994          | 0.001                                      |
| 36    | Chromium                  | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 0.05                                       |
| 37    | Copper                    | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 1.5                                        |
| 38    | Lead                      | mg/l  | BLQ (LOQ: 0.005)  | USEPA 200.8 : 1994          | 0.1                                        |
| 39    | Manganese                 | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 0.5                                        |
| 40    | Mercury                   | mg/l  | BLQ (LOQ: 0.0005) | USEPA 200.8 : 1994          | 0.001                                      |



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### TEST REPORT

Page : 4 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Theneri Lake

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044330F

Report No. : HECSL/WT/042/140924

Sample ID No : 140924114

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

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

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

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



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### TEST REPORT

Page: 1 of 1

Name of the Client : M/s. SIPCOT,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Theneri Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSI/WT/042/140924/N  
Sample ID No : 140924114  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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



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### TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Perinjambakkam Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000044331F  
Report No. : HECSL/WT/043/140924  
Sample ID No : 140924115  
Sampling Date : 14/09/2024

Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

| S.No.                 | Test Parameters                                 | Units       | Results       | Test Method                                           | Surface water Standards (IS 2296 - Class-A) |
|-----------------------|-------------------------------------------------|-------------|---------------|-------------------------------------------------------|---------------------------------------------|
| Discipline : Chemical |                                                 |             |               |                                                       |                                             |
| 1                     | Ammonia as NH <sub>3</sub>                      | mg/l        | BLQ(LOQ:0.02) | IS 3025 Part 34 Sec 2: 2021                           | NA                                          |
| 2                     | Bi carbonate                                    | mg/l        | 150.0         | IS 3025 Part 51: 2001                                 | NA                                          |
| 3                     | Biological Oxygen Demand (BOD)@ 27°C For 3 days | mg/l        | 3.0           | IS 3025 Part 44: 1993                                 | 2                                           |
| 4                     | Boron as B                                      | mg/l        | BLQ(LOQ:0.1)  | IS 3025 Part 57: 2021 ( Curcumin Method)              | NA                                          |
| 5                     | Calcium as Ca                                   | mg/l        | 40.08         | IS 3025 Part 40: 1991(EDTA Titrimetric Method)        | 80.10                                       |
| 6                     | Chemical Oxygen Demand (COD)                    | mg/l        | 28.0          | IS 3025 Part 58: 2006                                 | NA                                          |
| 7                     | Chloride as Cl                                  | mg/l        | 117.58        | IS 3025 Part 32: 1988 ( Argentometric Method)         | 250                                         |
| 8                     | Colour                                          | Hazen units | BLQ(LOQ:1.0)  | IS 3025 Part 4: 2021                                  | 10                                          |
| 9                     | Dissolved oxygen                                | mg/l        | 5.9           | IS 3025 Part 38: 1989                                 | 6                                           |
| 10                    | Electrical Conductivity at 25°C                 | µS/cm       | 761.0         | IS:3025 Part 14: 2013                                 | NA                                          |
| 11                    | Fluoride as F                                   | mg/l        | 0.34          | APHA 23rd edition Method 4500 F -B,D: 2017            | 1.5                                         |
| 12                    | Iron as Fe                                      | mg/l        | 0.15          | IS 3025 Part 53: 2003                                 | 0.3                                         |
| 13                    | Nitrate as NO <sub>3</sub>                      | mg/l        | 9.55          | APHA 23rd edition Method 4500 NO <sub>3</sub> R: 2017 | 20                                          |



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### TEST REPORT

Page : 2 of 4

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

Address of the Client : Vallam Vadagal Phase II

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Perinjambakkam Lake

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044331F  
Report No. : HECSL/WT/043/140924  
Sample ID No : 140924115  
Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 20/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

| S.No. | Test Parameters                       | Units                          | Results        | Test Method                                           | Surface water Standards (IS 2296 Class-A) |
|-------|---------------------------------------|--------------------------------|----------------|-------------------------------------------------------|-------------------------------------------|
| 14    | pH at 25°C                            |                                | 7.61           | IS 3025 Part 11: 2022 ( Electrometric Method)         | 8.5                                       |
| 15    | Total dissolved solids                | mg/l                           | 405.0          | IS 3025 Part 16: 1984                                 | 500                                       |
| 16    | Anionic Surface Active agents as MBAS | mg/l                           | BLQ(LOQ:0.05)  | APHA 23rd edition Method 5540 B, C: 2017              | 0.2                                       |
| 17    | Carbonate                             | mg/l                           | BLQ(LOQ:1.0)   | IS 3025 Part 51: 2001                                 | NA                                        |
| 18    | Cyanide as CN                         | mg/l                           | BLQ(LOQ:0.01)  | IS 3025 Part 27 sec 1: 2021                           | 0.05                                      |
| 19    | Magnesium as Mg                       | mg/l                           | 21.87          | IS 3025 Part 46: 1994 ( Volumetric Method using EDTA) | 24.28                                     |
| 20    | Percent Sodium                        | %                              | 38.43          | HECSG /WT/SOP/002 Issue No.01, Issue date 18.12. 2021 | NA                                        |
| 21    | Phenolic compounds as C6H5OH          | mg/l                           | BLQ(LOQ:0.001) | IS 3025 Part 43, Sec 1: 2022                          | 0.002                                     |
| 22    | Phosphate as PO4                      | mg/l                           | 1.34           | APHA 23rd edition Method 4500-P B,D: 2017             | NA                                        |
| 23    | Potassium as K                        | mg/l                           | 4.0            | IS 3025 Part 45: 1993                                 | NA                                        |
| 24    | Residual Sodium Carbonate             | mg/l                           | BLQ(LOQ:1.0)   | IS 11624: 2019                                        | NA                                        |
| 25    | Sodium Adsorption Ratio(SAR)          | Square root of (millimole/lit) | 1.77           | IS 11624: 2019                                        | NA                                        |



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT,  
Address of the Client : Vallam Vadagal Phase II

U.L.R : TC1231024000044331F  
Report No. : HECSL/WT/043/140924  
Sample ID No : 140924115  
Sampling Date : 14/09/2024

Group : Water  
Sample Name : Surface Water (AB)  
Sample Mark : Perinjambakkam Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

| S.No. | Test Parameters           | Units | Results           | Test Method                 | Surface water Standards<br>(IS 2296, Class-A1) |
|-------|---------------------------|-------|-------------------|-----------------------------|------------------------------------------------|
| 26    | Sodium as Na              | mg/l  | 56.0              | IS 3025 Part 45: 1983       | NA                                             |
| 27    | Sulphate as SO4           | mg/l  | 36.78             | IS 3025 Part 24 Sec 1: 2022 | 400                                            |
| 28    | Total alkalinity as CaCO3 | mg/l  | 150.0             | IS 3025 Part 23: 1986       | NA                                             |
| 29    | Total Hardness as CaCO3   | mg/l  | 190.0             | IS 3025 Part 21: 2009       | 300                                            |
| 30    | Total Phosphorous as P    | mg/l  | 0.41              | IS 3025 Part 31 Sec 1: 2022 | NA                                             |
| 31    | Total Suspended Solids    | mg/l  | 5.0               | IS 3025 Part 17: 1984       | NA                                             |
| 32    | Turbidity                 | NTU   | 2.5               | IS 3025 Part 10: 1984       | 1                                              |
| 33    | Arsenic                   | mg/l  | BLQ (LOQ: 0.005)  | USEPA 200.8 : 1994          | 0.05                                           |
| 34    | Barium                    | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 1                                              |
| 35    | Cadmium                   | mg/l  | BLQ (LOQ: 0.001)  | USEPA 200.8 : 1994          | 0.001                                          |
| 36    | Chromium                  | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 0.05                                           |
| 37    | Copper                    | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 1.5                                            |
| 38    | Lead                      | mg/l  | BLQ (LOQ: 0.005)  | USEPA 200.8 : 1994          | 0.1                                            |
| 39    | Manganese                 | mg/l  | BLQ (LOQ: 0.01)   | USEPA 200.8 : 1994          | 0.5                                            |
| 40    | Mercury                   | mg/l  | BLQ (LOQ: 0.0005) | USEPA 200.8 : 1994          | 0.001                                          |



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Authorized Signatory

**TEST REPORT**

Page: 4 of 4

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Perinjambakkam Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000044331F  
Report No. : HECSL/WT/043/140924  
Sample ID No : 140924115  
Sampling Date : 14/09/2024

Received Date : 14/09/2024  
Commenced Date: 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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



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## Laboratory Services Division

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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT,  
Address of the Client : Vallam Vadagal Phase II  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Perinjambakkam Lake  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/043/140924/N  
Sample ID No : 140924115  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 20/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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



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### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : Near Project Area  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0  
Sampling Method & Plan : ICARDA:2013

U.L.R : TC1231024000044345F  
Report No. : HECS/PE/013/140924  
Sample ID No : 140924106  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

| S.No.                 | Test Parameters                          | Units | Results        | Test Method                                              |
|-----------------------|------------------------------------------|-------|----------------|----------------------------------------------------------|
| Discipline : Chemical |                                          |       |                |                                                          |
| 1                     | Cadmium                                  | mg/Kg | BLQ (LOQ: 0.1) | HECS-G/INS/SOP/042 Issue No..01<br>Issue Date:01.03.2021 |
| 2                     | Chromium                                 | mg/Kg | 26.04          | HECS-G/INS/SOP/042 Issue No..01<br>Issue Date:01.03.2021 |
| 3                     | Copper                                   | mg/Kg | 7.86           | HECS-G/INS/SOP/042 Issue No..01<br>Issue Date:01.03.2021 |
| 4                     | Zinc                                     | mg/kg | 28.14          | HECS-G/INS/SOP/042 Issue No..01<br>Issue Date:01.03.2021 |
| 5                     | Soil Texture                             | -     | Clay loam      | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 6                     | Soil Texture i)Sand                      | %     | 27.2           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 7                     | Soil Texture ii)Silt                     | %     | 32.5           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 8                     | Soil Texture iii)Clay                    | %     | 40.3           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 9                     | pH Value @ 25 ° C (1 : 2.5)              | -     | 7.26           | IS 2720 (Part 26) 1987                                   |
| 10                    | Electrical conductivity @ 25 ° C (1 : 2) | µS/cm | 175.0          | IS 14767: 2000                                           |



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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : Near Project Area  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0  
Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044345F  
Report No. : HECS/PE/013/140924  
Sample ID No : 140924106  
Sampling Date : 14/09/2024

Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

| S.No. | Test Parameters             | Units              | Results      | Test Method                                               |
|-------|-----------------------------|--------------------|--------------|-----------------------------------------------------------|
| 11    | Bulk Density                | gm/cm <sup>3</sup> | 1.18         | FAO of United Nations Rome 2007                           |
| 12    | Organic Carbon              | %                  | 0.44         | IS 2720 (Part 22) Section 1 1972                          |
| 13    | Organic Matter              | %                  | 0.76         | IS 2720 (Part 22) Section 1 1972                          |
| 14    | Available Potassium         | mEq/100g           | 15.14        | FAO of United Nations, Rome Chapter - III 2008            |
| 15    | Boron as B                  | mg/kg              | BLQ(LOQ 0.1) | HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02.07.2020 |
| 16    | Total Nitrogen as N         | %                  | 0.0720       | IS 14684 Clause 4. 1999                                   |
| 17    | Exchangable Calcium as Ca   | mEq/L              | 6.94         | FAO of United Nations, Rome Chapter - III 2008            |
| 18    | Exchangable Magnesium as Mg | mEq/L              | 5.62         | FAO of United Nations, Rome Chapter - III 2008            |
| 19    | Cation Exchange Capacity    | mEq/100g           | 3.6          | IS 2720 (Part 24) Clause 5 1976                           |
| 20    | Water Holding capacity      | %                  | 18.6         | IS 14765: 2000                                            |
| 21    | Colour                      | -                  | Black        | HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02.07.2020 |
| 22    | Phosphorous                 | P/P                | 16.84        | FAO of United Nations, Rome Chapter -                     |

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

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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT,

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/013/140924/N

Sample ID No : 140924106

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters   | Units | Results | Test Method                                                |
|-----------------------|-------------------|-------|---------|------------------------------------------------------------|
| Discipline : Chemical |                   |       |         |                                                            |
| 1                     | Manganese         | mg/kg | 128.15  | HECS-G/INS/SOP/ 042                                        |
| 2                     | Iron              | mg/kg | 1.82    | Inhouse method                                             |
| 3                     | Infiltration Rate | cm/hr | 6.3     | Inhouse method                                             |
| 4                     | Moisture          | %     | 8.04    | HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07. 2020 |

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

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



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### TEST REPORT

Page - 1 of 2

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

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Erayur

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044346F

Report No. : HECS/PE/014/140924

Sample ID No : 140924107

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters                         | Units | Results        | Test Method                                               |
|-----------------------|-----------------------------------------|-------|----------------|-----------------------------------------------------------|
| Discipline : Chemical |                                         |       |                |                                                           |
| 1                     | Cadmium                                 | mg/Kg | BLQ (LOQ: 0.1) | HECS-G/INS/SOP/ 042 Issue No.:01<br>Issue Date:01.03.2021 |
| 2                     | Chromium                                | mg/Kg | 31.05          | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021  |
| 3                     | Copper                                  | mg/Kg | 6.74           | HECS-G/INS/SOP/ 042 Issue No.:01<br>Issue Date:01.03.2021 |
| 4                     | Zinc                                    | mg/kg | 20.14          | HECS-G/INS/SOP/ 042 Issue No.:01<br>Issue Date:01.03.2021 |
| 5                     | Soil Texture                            | -     | Clay loam      | FAO of United Nations, Rome Chapter -<br>III 2008         |
| 6                     | Soil Texture i)Sand                     | %     | 35.8           | FAO of United Nations, Rome Chapter -<br>III 2008         |
| 7                     | Soil Texture ii)Silt                    | %     | 34.2           | FAO of United Nations, Rome Chapter -<br>III 2008         |
| 8                     | Soil Texture iii)Clay                   | %     | 30.0           | FAO of United Nations, Rome Chapter -<br>III 2008         |
| 9                     | pH Value @ 25 °C (1 : 2.5)              | -     | 7.94           | IS 2720 (Part 26) 1987                                    |
| 10                    | Electrical conductivity @ 25 °C (1 : 2) | µS/cm | 626.0          | IS 14767: 2000                                            |



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### TEST REPORT

Page - 2 of 2

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : Erayur  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0  
Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044346F  
Report No. : HECS/PE/014/140924  
Sample ID No : 140924107  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

| S.No. | Test Parameters             | Units              | Results      | Test Method                                               |
|-------|-----------------------------|--------------------|--------------|-----------------------------------------------------------|
| 11    | Bulk Density                | gm/cm <sup>3</sup> | 1.28         | FAO of United Nations Rome 2007                           |
| 12    | Organic Carbon              | %                  | 0.34         | IS 2720 (Part 22) Section 1 1972                          |
| 13    | Organic Matter              | %                  | 0.58         | IS 2720 (Part 22) Section 1 1972                          |
| 14    | Available Potassium         | mEq/100g           | 12.56        | FAO of United Nations, Rome Chapter - III 2008            |
| 15    | Boron as B                  | mg/kg              | BLQ(LOQ 0.1) | HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020 |
| 16    | Total Nitrogen as N         | %                  | 0.0463       | IS 14684 Clause 4 1999                                    |
| 17    | Exchangable Calcium as Ca   | mEq/L              | 8.24         | FAO of United Nations, Rome Chapter - III 2008.           |
| 18    | Exchangable Magnesium as Mg | mEq/L              | 7.54         | FAO of United Nations, Rome Chapter - III 2008            |
| 19    | Cation Exchange Capacity    | mEq/100g           | 4.3          | IS 2720 (Part 24) Clause 5 1976                           |
| 20    | Water Holding capacity      | %                  | 18.6         | IS 14765: 2000                                            |
| 21    | Colour                      | -                  | Black        | HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020 |
| 22    | Phosphorous                 | P/B                | 41.50        | FAO of United Nations, Rome Chapter -                     |

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

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



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### TEST REPORT

Page : 1 of 1

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

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Erayur

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/014/140924/N

Sample ID No : 140924107

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters   | Units | Results       | Test Method                                                |
|-----------------------|-------------------|-------|---------------|------------------------------------------------------------|
| Discipline : Chemical |                   |       |               |                                                            |
| 1                     | Manganese         | mg/kg | 163.20        | HECS-G/INS/SOP/ 042                                        |
| 2                     | Iron              | mg/kg | BLQ(LOQ 0.02) | Inhouse method                                             |
| 3                     | Infiltration Rate | cm/hr | 7.2           | Inhouse method                                             |
| 4                     | Moisture          | %     | 4.52          | HECS-G/ENV/SSW/SOP/003 Issue No.-01 Issue Date:02.07. 2020 |

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



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### TEST REPORT

Page : 1 of 3

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

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(AII)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044347F

Report No. : HECS/PE/015/140924

Sample ID No : 140924108

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters                            | Units | Results        | Test Method                                              |
|-----------------------|--------------------------------------------|-------|----------------|----------------------------------------------------------|
| Discipline : Chemical |                                            |       |                |                                                          |
| 1                     | Cadmium                                    | mg/Kg | BLQ (LOQ, 0.1) | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 2                     | Chromium                                   | mg/Kg | 31.95          | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 3                     | Copper                                     | mg/Kg | 5.21           | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 4                     | Zinc                                       | mg/kg | 28.71          | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 5                     | Soil Texture                               | -     | Clay loam      | FAO of United Nations, Rome Chapter<br>III 2008          |
| 6                     | Soil Texture i)Sand                        | %     | 25.6           | FAO of United Nations, Rome Chapter<br>III 2008          |
| 7                     | Soil Texture ii)Silt                       | %     | 40.4           | FAO of United Nations, Rome Chapter<br>III 2008          |
| 8                     | Soil Texture iii)Clay                      | %     | 34.0           | FAO of United Nations, Rome Chapter<br>III 2008          |
| 9                     | pH Value (@ 25 ° C (1 : 2.5))              | -     | 7.64           | IS 2720 (Part 26) 1987                                   |
| 10                    | Electrical conductivity (@ 25 ° C (1 : 2)) | µS/cm | 190.0          | IS 14767: 2000                                           |



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### TEST REPORT

Page : 2 of 3

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : Vallakottai  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0  
Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044347F  
Report No. : HECS/PE/015/140924  
Sample ID No : 140924108  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

| S.No. | Test Parameters             | Units              | Results      | Test Method                                               |
|-------|-----------------------------|--------------------|--------------|-----------------------------------------------------------|
| 11    | Bulk Density                | gm/cm <sup>3</sup> | 1.32         | FAO of United Nations Rome 2007                           |
| 12    | Organic Carbon              | %                  | 0.56         | IS 2720 (Part 22) Section 1 1972                          |
| 13    | Organic Matter              | %                  | 0.96         | IS 2720 (Part 22) Section 1 1972                          |
| 14    | Available Potassium         | mEq/100g           | 11.24        | FAO of United Nations, Rome Chapter - III 2008            |
| 15    | Boron as B                  | mg/kg              | BLQ(LOQ 0.1) | HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020 |
| 16    | Total Nitrogen as N         | %                  | 0.0632       | IS 14684 Clause 4 1999                                    |
| 17    | Exchangable Calcium as Ca   | mEq/L              | 8.74         | FAO of United Nations, Rome Chapter - III 2008            |
| 18    | Exchangable Magnesium as Mg | mEq/L              | 6.52         | FAO of United Nations, Rome Chapter - III 2008            |
| 19    | Cation Exchange Capacity    | mEq/100g           | 4.42         | IS 2720 (Part 24) Clause 5 1976                           |
| 20    | Water Holding capacity      | %                  | 20.4         | IS 14765: 2000                                            |
| 21    | Colour                      | -                  | Black        | HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020 |
| 22    | Phosphorous                 | µg/g               | BLQ(LOQ 5.0) | FAO of United Nations, Rome Chapter -                     |

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

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



D.Anusuya  
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Authorized Signatory

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## Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

### TEST REPORT

Page - 1 of 1

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

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/015/140924/N

Sample ID No : 140924108

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date: 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters   | Units | Results      | Test Method                                               |
|-----------------------|-------------------|-------|--------------|-----------------------------------------------------------|
| Discipline : Chemical |                   |       |              |                                                           |
| 1                     | Manganese         | mg/kg | 133.62       | HECS-G/INS/SOP/042                                        |
| 2                     | Iron              | mg/kg | BLQ(LOQ 0.2) | Inhouse method                                            |
| 3                     | Infiltration Rate | cm/hr | 5.3          | Inhouse method                                            |
| 4                     | Moisture          | %     | 6.48         | HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02-07-2020 |

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

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



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### TEST REPORT

Page : 1 of 2

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

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Kovalavedu

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

U/LR : TC1231024000044348F

Report No. : HECS/PE/016/140924

Sample ID No : 140924109

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters                          | Units | Results        | Test Method                                              |
|-----------------------|------------------------------------------|-------|----------------|----------------------------------------------------------|
| Discipline : Chemical |                                          |       |                |                                                          |
| 1                     | Cadmium                                  | mg/Kg | BLQ (LOQ: 0.1) | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 2                     | Chromium                                 | mg/Kg | 19.32          | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 3                     | Copper                                   | mg/Kg | 5.62           | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 4                     | Zinc                                     | mg/kg | 23.09          | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 5                     | Soil Texture                             |       | Clay loam      | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 6                     | Soil Texture i)Sand                      | %     | 26.5           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 7                     | Soil Texture ii)Silt                     | %     | 38.4           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 8                     | Soil Texture iii)Clay                    | %     | 35.1           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 9                     | pH Value @ 25 ° C (1 : 2.5)              | -     | 7.30           | IS 2720 (Part 26) 1987                                   |
| 10                    | Electrical conductivity @ 25 ° C (1 : 2) | µS/cm | 320.0          | IS 14767: 2000                                           |



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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : Kovalavedu  
Sample Reference : NA  
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0  
Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044348F  
Report No. : HECS/PE/016/140924  
Sample ID No : 140924109  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

| S.No. | Test Parameters             | Units              | Results      | Test Method                                               |
|-------|-----------------------------|--------------------|--------------|-----------------------------------------------------------|
| 11    | Bulk Density                | gm/cm <sup>3</sup> | 1.26         | FAO of United Nations Rome: 2007                          |
| 12    | Organic Carbon              | %                  | 0.42         | IS 2720 (Part 22) Section I 1972                          |
| 13    | Organic Matter              | %                  | 0.74         | IS 2720 (Part 22) Section I 1972                          |
| 14    | Available Potassium         | mEq/100g           | 12.48        | FAO of United Nations, Rome Chapter - III 2008            |
| 15    | Boron as B                  | mg/kg              | BLQ(LOQ 0.1) | HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020 |
| 16    | Total Nitrogen as N         | %                  | 0.0065       | IS 14684 Clause 4 1999                                    |
| 17    | Exchangable Calcium as Ca   | mEq/L              | 9.92         | FAO of United Nations, Rome Chapter - III 2008            |
| 18    | Exchangable Magnesium as Mg | mEq/L              | 7.32         | FAO of United Nations, Rome Chapter - III 2008            |
| 19    | Cation Exchange Capacity    | mEq/100g           | 5.2          | IS 2720 (Part 24) Clause 5 1976                           |
| 20    | Water Holding capacity      | %                  | 19.4         | IS 14765: 2000                                            |
| 21    | Colour                      | -                  | Red          | HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020 |
| 22    | Phosphorous                 | ppm                | BLQ(LOQ 5.0) | FAO of United Nations, Rome Chapter -                     |

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

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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT,

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Kovalavedu

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/016/140924/N

Sample ID No : 140924109

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters   | Units | Results | Test Method                                               |
|-----------------------|-------------------|-------|---------|-----------------------------------------------------------|
| Discipline : Chemical |                   |       |         |                                                           |
| 1                     | Manganese         | mg/kg | 163.32  | HECS-G/INS/SOP/ 042                                       |
| 2                     | Iron              | mg/kg | 5.5     | Inhouse method                                            |
| 3                     | Infiltration Rate | cm/hr | 4.5     | Inhouse method                                            |
| 4                     | Moisture          | %     | 6.02    | HECS-G/ENV/SSW/SOP/001 Issue No.:01 Issue Date:02.07.2020 |

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

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



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### TEST REPORT

Page : 1 of 2

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

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Vallam

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044349F

Report No. : HECS/PE/017/140924

Sample ID No : 140924110

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters                          | Units | Results        | Test Method                                              |
|-----------------------|------------------------------------------|-------|----------------|----------------------------------------------------------|
| Discipline : Chemical |                                          |       |                |                                                          |
| 1                     | Cadmium                                  | mg/Kg | BLQ (LOQ: 0.1) | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 2                     | Chromium                                 | mg/Kg | 35.62          | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 3                     | Copper                                   | mg/Kg | 8.21           | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 4                     | Zinc                                     | mg/kg | 26.44          | HECS-G/INS/SOP/042 Issue No.:01<br>Issue Date:01.03.2021 |
| 5                     | Soil Texture                             |       | Loam           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 6                     | Soil Texture i)Sand                      | %     | 37.9           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 7                     | Soil Texture ii)Silt                     | %     | 38.2           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 8                     | Soil Texture iii)Clay                    | %     | 23.9           | FAO of United Nations, Rome Chapter -<br>III 2008        |
| 9                     | pH Value @ 25 ° C (1 : 2.5)              |       | 8.21           | IS 2720 (Part: 26) 1987                                  |
| 10                    | Electrical conductivity @ 25 ° C (1 : 2) | µS/cm | 892.0          | IS 14767: 2000                                           |



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### TEST REPORT

Page: 2 of 2

Name of the Client : M/s. SIPCOT,

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Vallam

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

U/LR : TC1231024000044349F

Report No. : HECS/PE/017/140924

Sample ID No. : 140924110

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No. | Test Parameters             | Units              | Results      | Test Method                                               |
|-------|-----------------------------|--------------------|--------------|-----------------------------------------------------------|
| 11    | Bulk Density                | gm/cm <sup>3</sup> | 1.42         | FAO of United Nations Rome 2007                           |
| 12    | Organic Carbon              | %                  | 0.54         | IS 2720 (Part 22) Section 1 1972                          |
| 13    | Organic Matter              | %                  | 0.94         | IS 2720 (Part 22) Section 1 1972                          |
| 14    | Available Potassium         | mEq/100g           | 12.42        | FAO of United Nations, Rome Chapter - III 2008            |
| 15    | Boron as B                  | mg/kg              | BLQ(LOQ 0.1) | HECS-G/ENV/SSW/SOP/018 Issue No. 01 Issue Date:02-07-2020 |
| 16    | Total Nitrogen as N         | %                  | 0.0492       | IS 14684 Clause 4 1999                                    |
| 17    | Exchangable Calcium as Ca   | mEq/L              | 8.54         | FAO of United Nations, Rome Chapter - III 2008            |
| 18    | Exchangable Magnesium as Mg | mEq/L              | 7.56         | FAO of United Nations, Rome Chapter - III 2008            |
| 19    | Cation Exchange Capacity    | mEq/100g           | 7.0          | IS 2720 (Part 24) Clause 5 1976                           |
| 20    | Water Holding capacity      | %                  | 32.2         | IS 14765: 2000                                            |
| 21    | Colour                      | -                  | Black        | HECS-G/ENV/SSW/SOP/011 Issue No. 01 Issue Date:02-07-2020 |
| 22    | Phosphorous                 | ppm                | 20.6         | FAO of United Nations, Rome Chapter -                     |

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

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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT,

Address of the Client : Vallam Vadagal Phase II

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Vallam

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

Report No : HECS/PE/017/140924/N

Sample ID No : 140924110

Sampling Date : 14/09/2024

Received Date : 14/09/2024

Commenced Date : 14/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

| S.No.                 | Test Parameters   | Units | Results | Test Method                                                |
|-----------------------|-------------------|-------|---------|------------------------------------------------------------|
| Discipline : Chemical |                   |       |         |                                                            |
| 1                     | Manganese         | mg/kg | 128.30  | HECS-G/INS/SOP/ 042                                        |
| 2                     | Iron              | mg/kg | 21.54   | Inhouse method                                             |
| 3                     | Infiltration Rate | cm/hr | 7.28    | Inhouse method                                             |
| 4                     | Moisture          | %     | 5.62    | HECS-G/ENV/SSW/SOP/003 Issue No. 01 Issue Date:02-07- 2020 |

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

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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,  
Address of the Client : Vallam Vadagal Phase II  
Group : Atmospheric Pollution  
Sample Name : Ambient Noise Levels (Excluding vibration)  
Sample Mark : Noise  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 9989:1981

ULR : TC1231024000043777F  
Report No. : HECS/AP/048/140924  
Sample ID No : 140924105  
Sampling Date : 14/09/2024  
Received Date : 14/09/2024  
Commenced Date : 14/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

| S.No | Sampling Location | Day Noise level<br>in dB (A) | Night Noise level<br>in dB (A) |
|------|-------------------|------------------------------|--------------------------------|
| 1    | Project Site      | 53.2                         | 41.3                           |
| 2    | Eruiyur           | 51.5                         | 42.8                           |
| 3    | Vallakottai       | 53.6                         | 43.5                           |
| 4    | Kovalavedu        | 51.2                         | 43.9                           |
| 5    | Vallam            | 52.4                         | 42.8                           |

#### Noise Standards - CPCB:

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

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

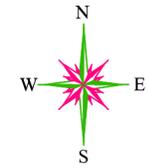
**Remarks:-** The noise level meets the requirement of CPCB Limits.

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



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Authorized Signatory

TENTATIVE LAYOUT FOR SIPCOT INDUSTRIAL PARK-II AT VALLAM-`A` AND VALLAM-`B` VILLAGES, SRIPERUMBUDUR Tk., KANCHEEPURAM Dt..



| COMMERCIAL |      |
|------------|------|
| CM1        | 8.01 |

| AMENITIES |      |
|-----------|------|
| AM1       | 3.10 |

| SOLID WASTE |      |
|-------------|------|
| SWM         | 4.91 |

| WIDTH OF ROAD         | LENGTH IN Km. |
|-----------------------|---------------|
| 30m WIDE ROAD         | 1.770         |
| 18m WIDE ROAD         | 3.565         |
| 18m WIDE VILLAGE ROAD | 0.914         |

| G.B. AREA |              |
|-----------|--------------|
| OSR NO.   | AREA IN ACRE |
| G.B.1     | 0.96         |
| G.B.2     | 0.41         |
| G.B.3     | 0.23         |
| G.B.4     | 0.21         |
| G.B.5     | 0.23         |
| G.B.6     | 0.67         |
| G.B.7     | 7.05         |
| TOTAL     | 9.76         |

| O.S.R. AREA |              |
|-------------|--------------|
| OSR NO.     | AREA IN ACRE |
| O.S.R.1     | 11.87        |
| O.S.R.2     | 0.66         |
| O.S.R.3     | 2.25         |
| O.S.R.4     | 1.59         |
| O.S.R.5     | 1.24         |
| O.S.R.6     | 1.46         |
| O.S.R.7     | 6.30         |
| O.S.R.8     | 1.98         |
| TOTAL       | 27.35        |

| GREEN BELT                                                    |  | Area in Acres |
|---------------------------------------------------------------|--|---------------|
| O.S.R. AREA 1 TO 8                                            |  | 27.35         |
| 33% GREEN BELT IN PLOT AREA                                   |  | 62.94         |
| GREEN BELT 3m ALONG ROAD SIDE                                 |  | 7.41          |
| GREEN BELT 5m ALONG PERIPHERY OF SITE AND 3m ALONG WATER BODY |  | 11.95         |
| TOTAL IN ACRES                                                |  | 109.65        |

35.33% of Developable Area

| PLOT NO. | AREA IN ACRES. | PLOT NO. | AREA IN ACRES. | PLOT NO. | AREA IN ACRES. |
|----------|----------------|----------|----------------|----------|----------------|
| 1        | 2.05           | 31       | 2.50           | 61       | 1.03           |
| 2        | 1.96           | 32       | 2.50           | 62       | 1.23           |
| 3        | 2.02           | 33       | 2.24           | 63       | 1.42           |
| 4        | 2.50           | 34       | 2.19           | 64       | 1.12           |
| 5        | 2.50           | 35       | 1.28           | 65       | 1.31           |
| 6        | 2.50           | 36       | 1.05           | 66       | 2.94           |
| 7        | 2.50           | 37       | 1.24           | 67       | 4.16           |
| 8        | 2.02           | 38       | 1.36           | 68       | 5.67           |
| 9        | 1.68           | 39       | 1.46           | 69       | 2.63           |
| 10       | 1.84           | 40       | 1.49           | 70       | 4.55           |
| 11       | 2.45           | 41       | 3.20           | 71       | 2.35           |
| 12       | 2.77           | 42       | 7.42           | 72       | 2.06           |
| 13       | 5.80           | 43       | 2.46           | 73       | 2.15           |
| 14       | 2.41           | 44       | 2.34           | 74       | 2.16           |
| 15       | 2.83           | 45       | 1.54           | 75       | 2.21           |
| 16       | 3.07           | 46       | 1.20           | 76       | 2.50           |
| 17       | 2.50           | 47       | 2.46           | 77       | 3.33           |
| 18       | 2.50           | 48       | 1.00           | 78       | 3.42           |
| 19       | 1.48           | 49       | 1.05           | 79       | 1.98           |
| 20       | 1.48           | 50       | 1.79           | 80       | 1.55           |
| 21       | 1.48           | 51       | 1.37           | 81       | 2.84           |
| 22       | 1.48           | 52       | 1.39           | 82       | 6.25           |
| 23       | 2.50           | 53       | 1.39           | 83       | 5.15           |
| 24       | 2.50           | 54       | 1.50           | TOTAL    | 190.73         |
| 25       | 4.32           | 55       | 1.50           |          |                |
| 26       | 2.74           | 56       | 1.00           |          |                |
| 27       | 2.73           | 57       | 1.00           |          |                |
| 28       | 2.53           | 58       | 1.00           |          |                |
| 29       | 1.61           | 59       | 1.11           |          |                |
| 30       | 2.00           | 60       | 0.94           |          |                |

| Water body | Length in m. | Width in m. | Area in Ha. |
|------------|--------------|-------------|-------------|
| 01         | 764.74       | 30.00       | 1.595       |
| 02         | 86.30        | 18.30       | 0.135       |
| 03         | 114.30       | 80.00       | 0.790       |
| 04         | 450.70       | 55.40       | 1.570       |
| 05         | 137.00       | 117.00      | 1.700       |
| 06         | 82.00        | 40.00       | 0.270       |
| TOTAL      |              |             | 6.060       |

|                                                                                                                                                                        | Area in       |               | % of total Area |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-----------------|
|                                                                                                                                                                        | Hectares      | Acres         |                 |
| <b>PLOT AREA (33% GREEN BELT 61.46Ac INCLUDED)</b>                                                                                                                     | 77.22         | 190.73        | 61.45%          |
| INDUSTRIAL HOUSING (Overall area- 30.83Ac, OSR8-1.98Ac,GB-2.19Ac,Commercial-1.51Ac SWM = 2.11Ac , Remaining housing Areas-16.43 Ac. Excluding Road)                    | 6.65          | 16.43         | 5.29%           |
| COMMON AMENITIES (ie. Project Office Including Health center, Water supply, EB, Fire station etc.)                                                                     | 1.26          | 3.10          | 1.00%           |
| COMMERCIAL PLOTS (ie. Bank, ATM, Shops, Canteen etc.) (HOUSING =1.51.AC, INDUSTRIES = 8.01.AC.)                                                                        | 3.85          | 9.52          | 3.07%           |
| SOLID WASTE MANAGEMENT = 07.02 Acres (Including E-Waste) (HOUSING PLOT SWM(Including Biomethanation)=2.11Ac. + INDUS SWM = 4.91Ac)                                     | 2.84          | 7.02          | 2.26%           |
| ROAD , STORM WATER DRAIN Industrial Plot Road 30.27Ac. + Housing plot Road 6.61 Ac.                                                                                    | 14.93         | 36.88         | 11.88%          |
| O.S.R.=10% of TOTAL AREA AFTER DEDUCTION OF ROAD AREA (310.39-36.88=273.51 X 10% = 27.35 Acre) (HOUSING OSR=1.98AC, INDUSTRIES OSR 1 TO 7 = 25.37AC)                   | 11.07         | 27.35         | 8.81%           |
| GREEN BELT 3m ALONG ROAD SIDE                                                                                                                                          | 3.00          | 7.41          | 2.39%           |
| GREEN BELT 5.m along periphery of site (GB7) = 7.05 Acres 3m along Water bodies(GB1 to GB6) = 2.71 Acres (HOUSING PLOT GB=2.19AC + INDUSTRIES,GB=9.76Ac) = 11.95 Acres | 4.84          | 11.95         | 3.85%           |
| <b>DEVELOPABLE AREA</b>                                                                                                                                                | <b>125.66</b> | <b>310.39</b> | <b>100.00%</b>  |
| WATER BODY AS PER REVENUE RECORD                                                                                                                                       | 6.06          | 14.97         |                 |
| <b>TOTAL AREA</b>                                                                                                                                                      | <b>131.72</b> | <b>325.36</b> |                 |