கலைஞர் 100 1924 - 2023

SIPCOT

SIPCOT

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

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

Sir/Madam,

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

Ref: EC Identification No: EC24A3101TN5662491N dated: .04.11.2024

****

We hereby submit the Half Yearly Compliance Report for the Development of Industrial Park at Adhagapadi Village of Dharmapuri Taluk & Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu for June 2025 (i.e., for the period of October 2024 to March 2025) along with the supporting documents for your perusal.

Thanking you

Yours faithfully,

CONSULTANT (PROJECT MANAGEMENT)

Encl: As above.

Copy to:

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

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

P.T.O.

3. The Project Officer
   SIPCOT Industrial Park,
   Dharmapuri.

State Industries Promotion Corporation of Tamil Nadu Limited
(A Government of Tamil Nadu Undertaking)
CIN I U74999TN1971SGC005967
Regd. Office : 19-A, Rukmani Lakshmipathy Road, Post Box No. 7223, Egmore, Chennai - 600 008.
Phone : 4526 1777, Fax : 4526 1796 Website : www.sipcot.tn.gov.in

HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of October 2024 – March 2025

For

"Development of Industrial Park over an area of 698.205 Ha (1724.566 Acres)"

At

Adhagapadi Village of Dharmapuri Taluk & Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu

EC Identification no : EC24A3101TN5662491N dt.04.11.2024

Submitted by

M/s STATE INDUSTRIES CORPORATION OF TAMILNADU LIMITED

19/A,Rukmanilakshmipathy road,

Egmore, Chennai – 600008

Prepared by

HUBERT ENVIROCARE SYSTEMS (P) LTD

CHENNAI

(ENVIRONMENTAL CONSULTANT)

MAY 2025

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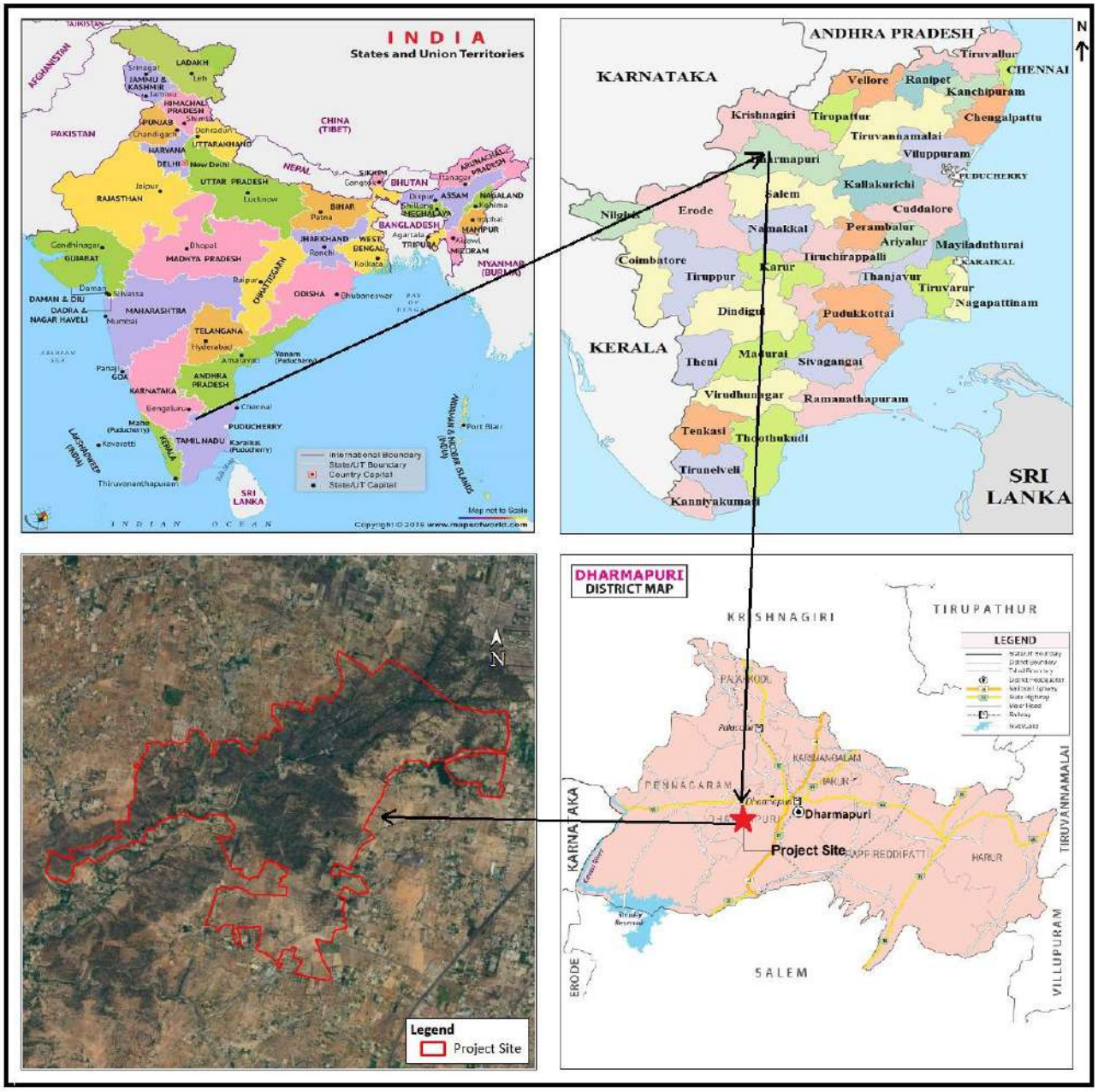
1. PROJECT DETAILS

Name of the Project	Development of SIPCOT Industrial Park at Adhagapadi Village of Dharmapuri Taluk &Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu over an extent of 698.205 Ha (1724.566 Acres)
Name of the Proponent	M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)
Location	Adhagapadi Village of Dharmapuri Taluk & Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu
EC. No.	EC obtained vide EC Identification No **EC24A3101TN5662491N dated: 04.11.2024** (Enclosed as **Annexure -1**)
Area Details	698.205 Ha
Water Requirement	Construction phase :60 KLD (Private water suppliers) Operation phase : 13320 KLD fresh water requirement : 9411 KLD Source: TWAD Board
Project Cost	Rs. 462.63 Crores.

2. SITE LOCATION MAP



3. SITE PHOTOGRAPHS


GPS Map Camera
Balajangamanhalli, Tamil Nadu, India
34x4+r2v, Balajangamanhalli, Tamil Nadu 636803, India
Lat 12.100872° Long 78.106568°
30/03/2025 09:35 AM GMT +05:30
Google

4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

Standard EC Conditions for (Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones)

1. Statutory compliance		
S.NO	**EC Conditions**	**Status of Compliance**
1.1	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (incase of the presence of schedule-I species in the study area).	**Condition will be complied**
1.2	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	**Condition noted.** Fresh water will be supplied by TWAD. Water supply letter is enclosed as **Annexure -2**
1.3	All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction	**Condition noted.** There will be no excavation related dewatering for the project.
1.4	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	**Condition Noted**
1.5	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast	**Condition noted.**

	Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.	
2. Air Quality Monitoring and preservation		
2.1	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations (one within and three outside the project area at an angle of 120°each), covering upwind and downwind directions.	**Condition being complied.** Ambient Air Quality monitoring report is enclosed as **Annexure 3.**
2.2	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.	**Condition noted.** All the member units will comply with.
2.3	Dust collectors shall be deployed in all areas where surface cleaning and painting operations are to be carried out, supplemented by stacks for effective dispersion.	**Condition noted.** All the member units will comply with.
2.4	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	Not applicable. SIPCOT have not propose any DG Set for backup.
2.5	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a	**Condition noted.**

	05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	
3. Water Quality Monitoring Preservation		
3.1	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.	**Condition noted.** Fresh water will be supplied by TWAD. Water supply letter is enclosed as **Annexure – 2**.
3.2	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.	**Condition noted.** All the member units shall comply with
3.3	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.	**Condition will be complied.** All the member industries will be mandated to adopt ZLD system for their effluent.
3.4	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.	**Condition noted.** Natural course of the river will not be diverted.
4.Noise Monitoring and preparation		
4.1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard	**Condition being complied.** Noise quality monitoring report is

	shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	enclosed as **Annexure-3.**
4.2	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.	**Condition noted.** All the member units shall comply with
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	**Condition noted**. All the member units shall comply with
4.4	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	**Condition noted**. All the member units shall comply with . Noise quality monitoring report is enclosed as **Annexure-3**.
5.Energy conservation Measures		
5.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly	**Condition will be complied.**
5.2	Provide LED lights in their offices and project areas.	**Condition will be complied.**
6.Waste Management		
6.1	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	**Condition noted.** Individual industries will have their own ETP and solid waste processing facility. Apart from that SIPCOT will earmark 5 acres of land for earmarked for Solid Waste Management Facility (Sheds for recovery and recycling facility) within the IP.

6.2	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.	**Condition will be complied.** Individual industries will mandated to follow all the applicable rules and guidelines. Individual industries will have their own solid waste processing facility. Apart from that SIPCOT will earmark 5 acres of land for earmarked for Solid Waste Management Facility (Sheds for recovery and recycling facility) within the IP.
6.3.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	**Condition noted.** Individual industries will mandated to follow all the applicable rules and guidelines.
6.4	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W.generated from project.	**Condition noted.** Individual industries will mandated to follow all the applicable rules and guidelines.
6.5	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	**Condition noted.** Individual industries will mandated to follow all the applicable rules and guidelines.
7.Green belt		
7.1	An overall green area of at-least 33% of the Industrial Area should be developed with native species. The green area shall be 40% in case of critically polluted area. The project proponent of the Industrial Area shall comply with the additional commitment made by them in the EIA report regarding the development of green belt.	**Condition will be complied.** The proposed site is not a critically polluted area.

7.2	The Industrial Areas are directed to accordingly allocate the area, to be developed as green cover, to respective individual industrial units so as to achieve the above mentioned condition.	**Condition noted**.
7.3	The individual industrial unit, at the time of obtaining EC, shall bring a letter from the Industrial Area, specifying the area allocated to them to be developed as green cover, as a part of obligation from the Industrial Area.	**Condition will be complied.** Necessary permission will be provide for Individual industries during EC obtaining process for greenbelt development.
7.4	Wherever possible, plantations around the periphery of the Industrial Area, in the downwind direction and along the road sides shall be provided for containment of pollution and for formation of a screen between the industrial area and the outer civil area. The choice of plants should include shrubs of height 1 to 1.5 m and tree of 3 to 5 m height. The intermixing of trees and shrubs should be such that the foliage area density in vertical is almost uniform.	**Condition noted.** Greenbelt will be developed as per the approved layout.
7.5	The parameters like selection of plant species, procedure for plantation, density of tree plantation etc shall be as per the CPCB guidelines.	**Condition noted**
8.Public Hearing and Human health issues		
8.1	Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary / required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.	**Condition noted**
8.2	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be	**Condition noted.** All member units will have their own onsite emergency plan and conduct regular mock drill.

	implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.	
8.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Each member unit will prepare and maintain its own Onsite Emergency Plan and Disaster Management Plan based on the nature of its operations.
8.4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	**Condition will be complied.**
8.5	Occupational health surveillance of the workers shall be done on a regular basis.	**Condition noted**
9. Environmental Responsibility		
9.1	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	**Condition will be complied.** SIPCOT will have a well laid down environmental policy duly approved by the Board of Directors and the same is enclosed as **Annexure-5**.
9.2	A separate Environmental Cell both at the project and company head quarter level, with qualified	**Condition complied.** Separate environmental management

	personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	cell has been assigned and will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as **Annexure-8.**
9.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	**Condition will be complied.**
9.4	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	**Condition will be complied.**
10. Miscellaneous		
10.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	**Condition complied.** The Newspaper advertisement has been published regarding the grant of Environmental Clearance and the same is enclosed as **Annexure –6.** SIPCOT website enclosed as **Annexure-7.**
10.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads	**Condition complied.** Acknowledgement copy from local

	of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	bodies and government office for submission of clearance letter is enclosed as **Annexure- 10.**
10.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly Basis.	**Condition noted**
10.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	**Condition noted**
10.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	**Condition noted**
10.6	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	**Condition noted**
10.7	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	**Condition noted**
10.8	The project authorities must strictly adhere to the	**Condition noted.**

	stipulations made by the State Pollution Control Board and the State Government.	
10.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	**Condition noted**
10.10	No further expansion or modifications in the Industrial Area shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	**Condition noted.**
10.11	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	**Condition Noted.**
10.12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	**Condition Noted.**
10.13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	**Condition Noted.**
10.14	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	**Condition Noted.**
10.15	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and	**Condition will be complied.**

	Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India /High Courts and any other Court of Law relating to the subject matter.	
10.16	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	**Condition Noted.** No appeal lies against this environmental clearance.
11. Specific Conditions		
11.1	The proponent has to comply with the Ministry's OM no. J-11011/321/2016-IA.II(I), dated 27.04.2018 which made it mandatory for certain type of industries to conduct public hearing irrespective of their location within Industrial Area or outside the industrial area.	**Condition Noted.**
11.2	The proposed individual units need to take Environmental Clearance separately as per the applicability of the schedule of EIA Notification, 2006.	**Condition Noted.**
11.3	Water demand during development/ construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	**Condition noted**
11.4	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	**Condition will be complied.**
11.5	Vehicles hired for bringing construction material to the site should be, in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	**Condition will be complied.**

11.6	Any hazardous waste generated during development/ construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	**Condition will be complied.** Hazardous waste generated during the development phase will be disposed of as per applicable rules and norms with the necessary approvals from the Tamil Nadu Pollution Control Board & as per Hazardous waste (Management, Handling and Trans boundary movement) amendment Rules 2016.
11.7	Biodiversity conservation plan prepared by the Ramniranjan Jhunjhunwala College of Arts, Science and Commerce, Mumbai, shall be implemented in true sprit revised in consultation with the state forest department with increased budget of Rs.1,20,00,000 provision and if any specific mitigation measures recommended by the Forest department the same shall be incorporated in the Plan. Revised Biodiversity Conservation Plan shall be submitted to the IRO with a copy to the Ministry and implemented. The compliance of implementation shall be submitted to the Concern IRO, MoEFCC along with the 6 monthly EC compliance report.	**Condition will be complied.**
11.8	As proposed by the PP, SIPCOT shall provide 19.10% (116.038 Ha) of greenbelt and individual industries shall maintained 22.20% (134.891 Ha) of green belt. The overall green belt of 41.30 %(250.929 Ha) shall be maintained. As committed by proponent, dense tree plantation of native species shall be developed in collaboration with the State Forest Department to control air pollution during operation phase of the project.	**Condition will be complied.**
11.9	As agreed by the PP green belt shall be developed with 50m of thick plantation along the peripheral	**Condition will be complied**. As Comitted Greenbelt will be

	of the river and 30 metres width of greenbelt around the water bodies as per the revised layout.	developed 50m thick plantation along the peripheral of the river & 30 m thick around the water bodies.
11.10	Project Proponent shall strive to enhance the Green Belt beyond 33% and that the trees planted in this regard would be planted under the campaign" एक _□□□□_□□□ □□_न म " and the details of the trees planted would be uploaded on the portal https://merilife.nic.in.	**Condition noted.**
11.11	The project should not amend or alter the pathways of the natural streams or creeks/nallah flowing.	**Condition noted.**
11.12	In addition to the installation of 1295 nos of rainwater harvesting pits proposed by the PP They should submit a plan for deep well injection of the rain water and submit to IRO of MoEFCC along with first 6 monthly compliance report. And progress of execution of the plan shall be submitted in subsequent compliance reports.	**Condition noted.**
11.13	To achieve the Zero Liquid Discharge, waste water generated from different industrial operations should be properly collected, treated to the prescribed standards and then recycled or reused for the identified uses.	**Condition will be complied.** SIPCOT will mandate individual industries to implement Zero Liquid Discharge (ZLD) system and to reuse the treated water for their process and utilities.
11.14	The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted along with the six monthly EC compliance report to the concern IRO of the Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should bemade to mitigate the odour problems from STP.	**Condition noted** SIPCOT will not install any STP. Member units will be mandated to comply with.
11.15	Sewage shall be treated in the STP with tertiary	**Condition noted.**

	treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing and landscaping.	SIPCOT will not install any STP. Member units will be mandated to comply with.
11.16	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	**Condition noted.** SIPCOT will not install any STP. Member units will be mandated to comply with
11.17	No sewage or untreated effluent water would be discharged through storm water drains.	**Condition Noted.**
11.18	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants. Frequent monitoring of groundwater and surface water will be done to ensure that the quality of water is being maintained within the norms the report of the same shall be submitted to the concern IRO, MoEF&CC along with the six monthly EC&CRZ compliance road.	**Condition being complied.** Monitoring reports of Soil and ground water samples is enclosed as **Annexure- 3.**
11.19	The PP shall construct a garland drain, with catch pits of appropriate capacity at appropriate distance, all around the industrial estate and also around the water bodies falling with in project boundary to prevent runoff of any contaminants/ waste into the nearby water bodies. The garland drains shall be designed such that the runoff within the boundary of the industrial area is collected in the garland drains, which shall be treated appropriately, conform to CPCB standards.	**Condition noted.**
11.20	Rain water harvesting for roof run-off and surface run- off, as plan submitted shall be implemented Before recharging the surface run off, pre-	Individual industries will comply with.

	treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging shall be kept at least 4 m above the highest ground water table.	
11.21	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six-Monthly Monitoring reports.	**Condition noted**
11.22	Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board/CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.	**Condition will be complied.**
11.23	Red category industrial units to be avoided near residential areas and habitations and water bodies. A distance of approximately 500 meters shall be maintained for the establishment of red category industry from the residential area.	**Condition noted and will be complied.**

11.24	Ambient air quality monitoring stations should be established in the downward directions as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with SPCB within and outside the industrial estate area at least at four locations (one within and three outside the port area at an angle of 120° each), covering upwind and downwind directions. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed fugitive emission standards. Date on ambient air quality and emission shall be regularly submitted to the IRO, MoEF&CC along with the six monthly EC&CRZ compliance road.	**Condition being complied.** Ambient Air Quality monitoring report is enclosed as **Annexure 3.**
11.25	As agreed by the PP feasibility of preparing plan for generating atleast 15 MVA solar power shall be explored and accordingly plan shall be submitted to IRO of the Ministry it its first six monthly compliance report. And, progress of implementation of this plan be submitted in subsequent 6 monthly compliance reports. Apart from this SIPCOT shall ensure that individual industries utilize at least 10% of their total power requirement through renewable energy like solar etc.	**Condition will be complied.**
11.26	As proposed by the PP a skill development centre shall be established within the industrial park at the cost of at least Rs. 50 lakhs with aim to improve the capabilities of the local workforce. Atleast 10 percentage of the employment shall be provided to specifically able and qualified persons from the landowners families who have provided the land for the project.	**Condition will be complied.**

11.27	Carry out a study with a reputed Universities/ Social Institute like TISS on measuring the impact of the Project on the Health of Human beings and measures to monitor and mitigate the same.	**Condition will be complied.** -
11.28	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	Not applicable. It is an infrastructure development project involving the construction of roads, storm water drains, street lighting, greenbelt development, and related works.
11.29	Based on the Socio, Economic and Demography study prepare Environment Management Plan to improve the life of the Communities around the Project with measurable indicators.	**Condition noted.**
11.30	All the recommendation of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.	**Condition noted.**
11.31	As per the Ministry's Office Memorandum F.No.22-65/2017-IA.III dated 30th September, 2020, the project proponent shall abide by all the commitments made by them to address the concerns raised during the public consultation. The project proponent shall initiate the activities proposed by them, based on the commitment made in the public hearing, and incorporate in the Environmental Management Plan and submit to the Ministry along with 6 monthly compliance report.	**Condition noted.**
11.32	All other activities including pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV, Compensatory	**Condition noted**

	Afforestation etc., either proposed by the project proponent based on the social impact assessment and R&R action plan carried out during the preparation of EIA report or prescribed by EAC, shall also be implemented and become part of EMP.	
11.33	The EC is subject to outcome of all the court matters panding against the proposed project. PP shall comply with all the directions issued by the Hon'ble Courts in all the cases.	**Condition Noted.**

5. ENVIRONMENTAL MONITORING DETAILS

It is mandatory to submit six monthly EC compliance report to MoEF & CC Regional Office by the proponent. For the purpose of submitting Six-Monthly EC Compliance report, environmental monitoring was carried out at site by M/s. Hubert Enviro Care Systems Pvt. Ltd. an NABL accredited laboratory for the period of October 2024 to March 2025.

5.1 Ambient Air Quality monitoring

The Ambient Air Quality parameters such as suspended particulate matter (PM10), Respirable matter (PM2.5), Sulphur dioxide, Oxides of Nitrogen (NOx) and Carbon monoxide were monitored. The test report of ambient air quality recorded during the month of October 2024 – March 2025and it is attached as **Annexure-3**

5.2 Ambient Noise level monitoring

Ambient noise quality was monitored and the test report of ambient noise recorded during the period of October 2024 to March 2025 is enclosed in **Annexure - 3.**

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 October 2024 to March 2025 is enclosed as **Annexure - 3.**

5.4 Ground water quality monitoring

Ground water was tested for various water quality parameters during October 2024 to March 2025.The test report of ground water collected and analyzed is enclosed as **Annexure - 3.**

5.4 Surface water quality monitoring

Surface water was collected for various water quality parameters during October 2024 to March 2025.The test report of surface water collected and analyzed is enclosed as **Annexure -3.**

Environmental Monitoring Photographs are enclosed as **Annexure-4.**

6. CONCLUSION

1. The environmental monitoring was carried out at site during the period of October 2024 to March 2025.

2. All the conditions stipulated in Environmental Clearance are compiled /being / will be complied.

Name: Dr. Rajkumar Samuel

Designation: Director Technical

Company Name: Hubert Enviro Care Systems Private Limited

सत्यमेव जयते

File No: File No.10/34/2023-IA.III

Government of India

Ministry of Environment, Forest and Climate Change

IA Division

****

Date **04/11/2024**

To,

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

Subject: **Development of Industrial Park over an area of 698.205 Ha (1724.566 Acres) at Adhagapadi Village of Dharmapuri Taluk & Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu by M/s State Industries Promotion Corporation of Tamilnadu Limited–Environmental clearance regarding.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/TN/INFRA1/495568/2024 dated 05/09/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A3101TN5662491N
(ii) File No.	File No.10/34/2023-IA.III
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	7(c) Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones
(vi) Sector	INFRA-1
(vii) Name of Project	Development of Industrial Park at Adhagapadi Village of Dharmapuri Taluk &Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu over an extent of 698.205 Ha (1724.566 Acres)
(viii) Name of Company/Organization	STATE INDUSTRIES PROMOTION

	CORPORATION OF TAMILNADU LIMITED
(ix) Location of Project (District, State)	DHARMAPURI, TAMIL NADU
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The proposal is for Development of Industrial Park over an area of 698.205 Ha (1724.566 Acres) at Adhagapadi Village of Dharmapuri Taluk & Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu by M/s State Industries Promotion Corporation of Tamilnadu Limited. The coordinates are Longitude: 12°6'27.871" N to 12°7'30.4423" N, Latitude: 78°4'32.398" to 78° 7'32.346" E.

4. The ToR proposal was considered in the 330th meeting of Expert Appraisal Committee held on 19th -20th June, 2023 and the 337th EAC meeting held on 06th June, 2023, the committee recommended the proposal for the grant of Terms of Reference, Ministry granted the Terms of References (ToR) vide letter no.10/34/2023-IA.III dated 02nd November, 2023 for undertaking detailed EIA/EMP report.

5. The proposed project activity is listed at schedule S.No.7(c), Industrial estates/parks/ complexes/areas, Export Processing Zones (EPZs), Special Economic Zones, Category- 'A' of EIA Notification, 2006. The total cost of the project is Rs. 462.63 Crores.

6. Public Hearing Details: Public hearing was conducted on 11.06.2024 at K. J. Plaza, Salem Main road, Errapatti Bus stop, A. Jettihalli Village, Nallampalli Taluk, Dharampuri District, Tamil Nadu under the chairmanship of District Revenue Officer.

7. List of industries to be housed with the proposed project site: The list of industries proposed under 3(a), 5(e) and 5(f) categories covered under EIA notification, 2006 the details are as following:

S. No.	Type of Industries	EV Products (Battery compound and others parts) under EC category	Approx. Percentage of Allocation
1	3(a)-Metallurgical industries (ferrous & Non-Ferrous)	Metallurgical processing industrial units–EV/Automobile Manufacturing	27.49%
2	5(e)-Petrochemical products and petrochemical based processing such as production of carbon black and electrode grade graphite	EV Battery Anode	
3	5(f)-Synthetic Organic Chemical industries	EV Battery Electrolyte	
4	Other Non-EC Category Industries such as General Engineering, Automobile components, Electrical & Electronics, etc. as per the EIA Notification 2006 and its subsequent amendments	EV Battery Separator & Cathode, Other E-Vehicle parts, and Automobile parts etc.	72.51%
Total			100%

8. Land use/Land cover of project site:

Sl.No.	Land use land cover description of the project site	Area in Acres	Area in Ha	Percentage (%)
1	Industrial Plot area (including 33% Greenbelt area)	1009.64	408.762	67.27%
2	Common Amenities (i.e., Project office including medical dispensary, Water supply, EB, Fire station, etc)	30.010	12.150	2.00%
3	Commercial Activities (i.e., Bank, ATM, Shops, Canteen etc.)	45.020	18.227	3.00%
4	Solid Waste Management Area	5.000	2.024	0.33%
5	Roads along with Storm Water Drain	121.280	49.101	8.08%
6	Green-belt (Apart from greenbelt of Individual Industrial Plot area)	286.615	116.038	19.10%
7	1.3m Wide Garland Drain (Peripheral of EC category plot)	3.250	1.316	0.22%
Developable area		1500.815	607.618	100.00%

8	Water body	197.785	80.075	-
9	110 KV HT line-22m RoW	25.966	10.512	-
Total area		1724.566	698.205	-

9. Terrain: The proposed project is undulating terrain. The elevation of the land varies from ~380-460 m AMSL.
10. Water Requirements: Construction Phase: The total water requirement during construction phase is 60 KLD and same will be sourced from Private water suppliers. During operation phase total water requirement for the project is 13320 KLD. Fresh water will be sourced from Tamil Nadu Water Supply and Drainage Board (TWAD Board). Water allocation given by TWAD for providing 2MLD of water from Hogenakkal Water supply vide its letter dated 26.05.23 and for the supply of 49MLD of water to SIPCOT's existing and proposed Industrial parks in Krishnagiri and Dharmapuri districts (including water supply for the proposed park) from Hogenakkal CWSS PhaseII its letter dated 03.05.2023.
11. Details of water bodies, impact on drainage: The following water bodies are located within project site and within 10 km radius of the project area. The details are as follows:

Sl.No	Name	Distance (~km)	Direction
1	PeriyaAr (Tributary)	Passing within the site	
2	Pond near Tokkampatti	0.8	E
3	VettalAr (Tributary)	0.85	S
4	Nagavati R/ Palar R	1.91	SW
5	Pidamaneri Lake	2.19	E
6	Sogattur Lake	2.57	N
7	Indur Lake	2.61	W
8	Virupakshipuram Pallam (Stream)	2.95	E
9	Adiyamankottai Lake	3.22	SE
10	RamakkalEri (Lake)	3.77	ENE
11	Nagavathi Dam	4.73	SW
12	SemmandakuppamAr (River)	5.08	NNE
13	KadagatturEri (Lake)	5.11	NNE
14	Panangalli Eri (Lake)	8.44	N
15	Varattu Pallam (Stream)	10.55	NW
16	Siddampatti Pallam (Stream)	10.79	NW

12. Diversion of forest land: The aforesaid proposal does not involve any forest land and does not require Forest Clearance. The project is not located within 10km of Protected Areas (PA) including National Parks, Sanctuaries and Tiger Reserves etc. The project is also not located within the Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified by the MoEF&CC. However, Cauvery South Wildlife Sanctuary Core Boundary is ~16.90 km (NW) from project site boundary. A detailed biodiversity study for floral and faunal within the core and buffer zones was conducted by Ramniranjan Jhunjhunwala College, Mumbai based on the study, the wild life conservation plan was prepared with the budgetary provisions of Rs.1,20,00,000 for the wildlife conservation plan, and shall be implemented in consultation with the concern State Forest Department.
13. Tree cutting and Green-belt development: Total No. of trees within the site are 128911. Out of which 16114 trees will felled down due to the proposed project. To Compensate that 161140 trees will be planted in the green belt area. SIPCOT will also mandated to the Industries to provide 33% of green belt within their premises i.e., 22.20% (134.891 Ha) and apart from that, SIPCOT will provide 19.10%(116.038 Ha) of the greenbelt. Total green belt for proposed Industrial Park will be 41.30 % (250.929 Ha). The total Capital cost of Rs.776.48 lakhs will be spent to develop the greenbelt in the project site. Adequate Green belt area will be provided in the park viz 50m along the peripheral of the river, 15m along the other water bodies.

14. Proposed project Site is not located proximity to Critically Polluted area as identified by the CPCB.
15. Waste Management: SIPCOT will mandate individual industries to implement Zero Liquid Discharge (ZLD) system and to reuse the treated water for their process and utilities. Individual industries will have their own Sewage Treatment Plants. Treated sewage will be recycled for flushing and green belt development as per CPCB/TNPCB guidelines. Individual industries will have their own Effluent Treatment Plants and will be mandated to ensure Zero Liquid Discharge concept as per CPCB/ TNPCB guidelines. Treated effluent will be recycled for process and utilities purpose. Individual

industries will segregate their solid waste. Organic waste will be composted and used as manure for green belt development. Inorganic waste will be disposed to TNPCB authorized recyclers/vendors. As a provision to have in house and independent Solid Waste Management facility, 5 Acres (Sheds for recovery and recycling facility including a shed for E-Waste Management) has been earmarked for Solid Waste Management Facility. Individual industries will have their own hazardous waste storage areas and the hazardous wastes generated will be disposed by the individual industries as per Hazardous waste (Management, Handling and Transboundary movement) amendment Rules 2016. Further, a provision to have in house and independent Solid Waste Management facility, 5 Acres (Sheds for recovery and recycling facility including a shed for E-Waste Management) has been earmarked for Solid Waste Management Facility. The details of waste generation and disposal details are as follows:

S. No.	Type of Wastewater	Quality expected to be generation in KLD	Mode of Disposal
Construction Phase			
1	Sewage	10	Will be treated in 15 KLD mobile STP and treated sewage will be used for green belt development during construction phase.
Operation Phase			
2	Sewage from Industries	775	Will be treated by individual industries and treated sewage will be used for green belt development within the IP.
3	Effluent from Individual industries	3158	Will be treated by individual industries and reused for process and utilities. ZLD will be maintained by individual industries.

16. Details of Rain Water Harvesting: Rainwater harvesting pits are proposed for recharging the ground water table. The calculation on the number of pits for rainwater harvesting is as follows:

Land Allocation Breakup	Area in Hectares	Area (A) in (sq. m.)	Runoff Coefficient(C)	Intensity of rainfall-I (m/ day)	Total Discharge-Q (m3/ day)
Roads and Pavement Area	49.101	491010	0.7	0.117	40213.719
Common amenities	12.15	121500	0.7	0.117	9950.85
Commercial activities	18.227	182270	0.7	0.117	14927.913
Green belt	116.038	1160380	0.15	0.117	20364.669
Total	195.516	1955160	-	-	85457.15

17. The Total Runoff Load is 85457.15 m3/day based on the Runoff, the total rainwater harvesting pits are proposed 1295 nos. and Rainwater harvesting will be done for 50% of total Runoff rainwater harvesting will be done of total Runoff and remaining 50% runoff will be diverted into nearby water bodies through storm water drain after filtration.

18. Land acquisition and R&R issues involved: There is no R & R involved for the proposed project since Government of Tamil Nadu has issued administrative sanction for acquisition of 222.81.5 Ha of patta dry land & 478.97.0 Ha of Poramboke land for the development of new Industrial Park by SIPCOT in Adhagapadi, Adhiyamankottai, Thadangam and Balajangamanahalli Villages, Dharmapuri District, Tamil Nadu vide G.O. (Ms) No. 284 dated 30.12.2015.

19. Energy conservation measures with estimated saving: SIPCOT has proposed to generate a total 6.31 MVA of solar energy, however as suggested by the EAC total renewable energy capacity will increase up to 15 MVA through solar power based on the feasibility and necessary provisions. Apart from this SIPCOT will promote individual industries to utilize at least 10 percentage of their total power requirement through renewable energy like solar etc. Also, SIPCOT will explore the feasibility of making this industrial park a 100 percent renewable energy manage park.

20. Employment potential: During construction phase approximately 250 people will get employment and during operation phase a total of 18300 (Direct employment: 16470 & Indirect employment: 1830) people will get employment. SIPCOT also proposed to stablish the skill development centre within the industrial park at a cost of Rs.50 lakhs aiming to improve the capabilities of the local workforce. Also, it was mentioned that the proposed industrial area will generate the employment for 18,300 persons. 10 percentage of the employment will provide specifically able and qualified persons

from the landowners and families who have provided the land for the project.

21. Benefits of the project: The proposed scheme is to attract additional revenue to the government through taxes and there will be positive impact on social conditions in and around the site due to the proposed project as it generates the direct & indirect employment.

22. Details of court cases: Two Writ Petitions WP 10069/2021 and WP 20340/2021 were filed in Madras High Court against the said project for Compensation against land acquisition. In Writ Petitions WP 10069/2021, The hon'ble High court judgment dated 25.11.2021 the 8th respondent is directed to fix compensation for the petitioner in respect of the subject property as the provisions of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act(Central Act (Central Act30/2013) and complete the said process with in a period of twelve weeks from the date of receipt of a copy order. The 8th Respondent the district registrar, Dharmpuri have been filed in W.M.P.No.17027 of 2022 on 05.07.2022.Pending for revised Judgment. (ii) WP 20340/2021 is pending at Hon'ble Madras High Court.

23. The EAC based on the information submitted and clarifications provided by the project proponent and detailed discussions held on all the issues during 373rd meeting on 11th-12th September 2024, recommended the project for grant of environmental clearance with stipulated specific conditions along with other Standard EC Conditions.

24. The Ministry of Environment, Forest and Climate Change has considered the proposal based on the recommendations of the Expert Appraisal Committee (Infrastructure, CRZ and other Miscellaneous projects) and hereby decided to grant Environmental Clearance for the "Development of Industrial Park over an extent of 698.205 Ha (1724.566 Acres) at Adhagapadi Village of Dharmapuri Taluk & Adhiyamankottai, Thadangam and Balajangamanahalli Villages of Nallampalli Taluk, Dharmapuri District, Tamil Nadu by M/s State Industries Promotion Corporation of Tamil Nadu Limited" under the EIA Notification, 2006 as amended, subject to strict compliance of the following specific conditions, in addition to all standard conditions applicable for such projects.

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

Copy To

1. Principal Secretary, Department of Environment, Climate Change and Forests Department, Government of Tamil Nadu, Environment, Climate Change and Forests Department Secretariat, Chennai 600 009.
2. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, 1st Floor, Additional Office Block for GPOA, Shastri Bhawan, Haddows Road, Nungambakkam, Chennai – 600006.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
4. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/Record File.
7. Notice Board.

Annexure 1

Standard EC Conditions for (Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones)

1. Statutory Compliance

S. No	EC Conditions
1.1	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (incase of the presence of schedule-I species in the study area).
1.2	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
1.3	All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction
1.4	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
1.5	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations (one within and three outside the project area at an angle of 120°each), covering upwind and downwind directions.
2.2	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
2.3	Dust collectors shall be deployed in all areas where surface cleaning and painting operations are to be carried out, supplemented by stacks for effective dispersion.
2.4	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
2.5	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also

S. No	EC Conditions
	have their consent to the implementation of components of the plan which involve the participation of these departments.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
3.2	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.
3.3	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
3.4	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.2	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
4.4	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
5.2	Provide LED lights in their offices and project areas.

6. Waste Management

S. No	EC Conditions
6.1	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
6.2	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
6.3	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
6.4	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
6.5	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

7. Green Belt

S. No	EC Conditions
7.1	An overall green area of at-least 33% of the Industrial Area should be developed with native species. The green area shall be 40% in case of critically polluted area. The project proponent of the Industrial Area shall comply with the additional commitment made by them in the EIA report regarding the development of green belt.
7.2	The Industrial Areas are directed to accordingly allocate the area, to be developed as green cover, to respective individual industrial units so as to achieve the above mentioned condition.
7.3	The individual industrial unit, at the time of obtaining EC, shall bring a letter from the Industrial Area, specifying the area allocated to them to be developed as green cover, as a part of obligation from the Industrial Area.
7.4	Wherever possible, plantations around the periphery of the Industrial Area, in the downwind direction and along the road sides shall be provided for containment of pollution and for formation of a screen between the industrial area and the outer civil area. The choice of plants should include shrubs of height 1 to 1.5 m and tree of 3 to 5 m height. The intermixing of trees and shrubs should be such that the foliage area density in vertical is almost uniform.
7.5	The parameters like selection of plant species, procedure for plantation, density of tree plantation etc shall be as per the CPCB guidelines.

8. Public Hearing And Human Health Issues

S. No	EC Conditions
8.1	Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs

S. No	EC Conditions
	or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.
8.2	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.
8.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
8.4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
8.5	Occupational health surveillance of the workers shall be done on a regular basis.

9. Environment Responsibility

S. No	EC Conditions
9.1	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.
9.2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
9.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
9.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

10. Miscellaneous

S. No	EC Conditions
10.1	The project proponent shall make public the environmental clearance granted for their project along

S. No	EC Conditions
	with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
10.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
10.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
10.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
10.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
10.6	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
10.7	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
10.8	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.10	No further expansion or modifications in the Industrial Area shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
10.11	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
10.12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10.14	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The

S. No	EC Conditions
	project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
10.15	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
10.16	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010

11. Specific Conditions

S. No	EC Conditions
11.1	The proponent has to comply with the Ministry's OM no. J-11011/321/2016-IA.II(I), dated 27.04.2018 which made it mandatory for certain type of industries to conduct public hearing irrespective of their location within Industrial Area or outside the industrial area.
11.2	The proposed individual units need to take Environmental Clearance separately as per the applicability of the schedule of EIA Notification, 2006.
11.3	Water demand during development/ construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11.4	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
11.5	Vehicles hired for bringing construction material to the site should be, in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
11.6	Any hazardous waste generated during development/ construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
11.7	Biodiversity conservation plan prepared by the Ramniranjan Jhunjhunwala College of Arts, Science and Commerce, Mumbai, shall be implemented in true sprit revised in consultation with the state forest department with increased budget of Rs.1,20,00,000 provision and if any specific mitigation measures recommended by the Forest department the same shall be incorporated in the Plan. Revised Biodiversity Conservation Plan shall be submitted to the IRO with a copy to the Ministry and implemented. The compliance of implementation shall be submitted to the Concern IRO, MoEFCC along with the 6 monthly EC compliance report.
11.8	As proposed by the PP, SIPCOT shall provide 19.10% (116.038 Ha) of greenbelt and individual industries shall maintained 22.20% (134.891 Ha) of green belt. The overall green belt of 41.30 %

S. No	EC Conditions
	(250.929 Ha) shall be maintained. As committed by proponent, dense tree plantation of native species shall be developed in collaboration with the State Forest Department to control air pollution during operation phase of the project.
11.9	As agreed by the PP green belt shall be developed with 50m of thick plantation along the peripheral of the river and 30 mtrs width of greenbelt around the water bodies as per the revised layout.
11.10	Project Proponent shall strive to enhance the Green Belt beyond 33% and that the trees planted in this regard would be planted under the campaign" एक_पेड़_माा_के_नम " and the details of the trees planted would be uploaded on the portal https://merilife.nic.in.
11.11	The project should not amend or alter the pathways of the natural streams or creeks/nallah flowing.
11.12	In addition to the installation of 1295 nos of rainwater harvesting pits proposed by the PP They should submit a plan for deep well injection of the rain water and submit to IRO of MoEFCC along with first 6 monthly compliance report. And progress of execution of the plan shall be submitted in subsequent compliance reports.
11.13	To achieve the Zero Liquid Discharge, waste water generated from different industrial operations should be properly collected, treated to the prescribed standards and then recycled or reused for the identified uses.
11.14	The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted along with the six monthly EC compliance report to the concern IRO of the Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problemsfrom STP.
11.15	Sewage shall be treated in the STP with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing and landscaping.
11.16	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
11.17	No sewage or untreated effluent water would be discharged through storm water drains.
11.18	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants. Frequent monitoring of groundwater and surface water will be done to ensure that the quality of water is being maintained within the norms the report of the same shall be submitted to the concern IRO, MoEF&CC along with the six monthly EC&CRZ compliance road.
11.19	The PP shall construct a garland drain, with catch pits of appropriate capacity at appropriate distance, all around the industrial estate and also around the water bodies falling with in project boundary to prevent runoff of any contaminants/ waste into the nearby water bodies. The garland drains shall be designed such that the runoff within the boundary of the industrial area is collected in the garland drains, which shall be treated appropriately, conform to CPCB standards.
11.20	Rain water harvesting for roof run-off and surface run- off, as plan submitted shall be implemented.

S. No	EC Conditions
	Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging shall be kept at least 4 m above the highest ground water table.
11.21	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six-Monthly Monitoring reports.
11.22	Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board/CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
11.23	Red category industrial units to be avoided near residential areas and habitations and water bodies. A distance of approximately 500 meters shall be maintained for the establishment of red category industry from the residential area.
11.24	Ambient air quality monitoring stations should be established in the downward directions as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with SPCB within and outside the industrial estate area at least at four locations (one within and three outside the port area at an angle of 120° each), covering upwind and downwind directions. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed fugitive emission standards. Date on ambient air quality and emission shall be regularly submitted to the IRO, MoEF&CC along with the six monthly EC&CRZ compliance road.
11.25	As agreed by the PP feasibility of preparing plan for generating atleast 15 MVA solar power shall be explored and accordingly plan shall be submitted to IRO of the Ministry it its first six monthly compliance report. And, progress of implementation of this plan be submitted in subsequent 6 monthly compliance reports. Apart from this SIPCOT shall ensure that individual industries utilize at least 10% of their total power requirement through renewable energy like solar etc.
11.26	As proposed by the PP a skill development centre shall be established within the industrial park at the cost of at least Rs. 50 lakhs with aim to improve the capabilities of the local workforce. Atleast 10 percentage of the employment shall be provided to specifically able and qualified persons from the landowners families who have provided the land for the project.
11.27	Carry out a study with a reputed Universities/ Social Institute like TISS on measuring the impact of the Project on the Health of Human beings and measures to monitor and mitigate the same.
11.28	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.
11.29	Based on the Socio, Economic and Demography study prepare Environment Management Plan to improve the life of the Communities around the Project with measurable indicators.
11.30	All the recommendation of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.

S. No	EC Conditions
11.31	As per the Ministry's Office Memorandum F.No.22-65/2017-IA.III dated 30th September, 2020, the project proponent shall abide by all the commitments made by them to address the concerns raised during the public consultation. The project proponent shall initiate the activities proposed by them, based on the commitment made in the public hearing, and incorporate in the Environmental Management Plan and submit to the Ministry along with 6 monthly compliance report.
11.32	All other activities including pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV, Compensatory Afforestation etc., either proposed by the project proponent based on the social impact assessment and R&R action plan carried out during the preparation of EIA report or prescribed by EAC, shall also be implemented and become part of EMP.
11.33	The EC is subject to out come of all the court matters panding against the proposed project. PP shall comply with all the directions issued by the Hon'ble Courts in all the cases.

Annexure - 2

SIPCOT
15 MAY 2023
CHENNAI - 600 008

Tamil Nadu Water Supply and Drainage Board
31, Kamarajar Salai, Chepauk, Chennai – 600 005

Thiru.V.Dakshinamoorthy,I.A.S.,
Managing Director

22353/2023

Lr No F.SIPCOT Hogenakkal -II/AE1/PDC/2023dt.03.05.2023

To

The Managing Director,
SIPCOT Ltd,
19-A, Rukmani Lakshimapathy road,
Egmore,
Chennai 600 008.

Sir,

Sub: TWAD Board – Providing 49 MLD water supply to the existing and upcoming SIPCOT Industrial park in Dharmapuri and Krishnagiri District from proposed Hogenakkal combined water supply scheme Phase-II- Consent received to remit proportionate project cost- Remittance of upfront deposit towards preparation of DPR – Requested – reg

Ref:
1. Deputy Secretary to Govt, MAWS Dept, Lr No 9340 A/ WS 1/ 2022-1/ dt 07.06.2022.
2. MD/ TWAD/ Lr No F.Dharmapuri & Krishnagiri Dts/ Enhance /Supply level/JJM/AE1/PDC/2020/dt.17.06.2022
3. MD/ SIPCOT/ Lr No CW/ IWC/ D&K Dist/WS/ 2022/ dt 20.07.2022.
4. MD/ TWAD/ Lr No F.Dharmapuri & Krishnagiri Dts/ Enhance /Supply level/JJM/AE1/PDC/2020/dt.03.08.2022.
5. MD/ TWAD/ Lr No F.Dharmapuri & Krishnagiri Dts/ Enhance /Supply level/JJM/AE1/PDC/2020/dt.29.08.2022.

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With reference to the captioned subject the following is putforth.

- ✓ During the Coordination meeting convened on 16.05.2022 by the Additional Chief Secretary to Government, MA& WS Dept to finalise the Industrial requirement of water in Dharmapuri and Krishnagiri districts under Hogenakkal Phase-II, SIPCOT finalized the industrial water requirements as 40 MLD.
- ✓ In the reference 2nd & 4th cited, SIPCOT was requested
  1) To register the request for industrial water requirements from Hogenakkal Phase-II on TWAD Bard online web portal (https://www.twadeodb.in).
  2) To give consent for the "Terms and condition" of TWAD Board for taking up this deposit works.
  3) To confirm the location of water supply along with quantity for preparing the detailed project report.

6051

- ✓ In the reference 3rd cited, SIPCOT has
  - i. furnished consent to the Terms and conditions of TWAD Board to provide 40 MLD water supply to the existing & upcoming SIPCOT Industrial Park in Dharmapuri and Krishnagiri Districts.
  - ii. informed that, the request of the above water supply demand will be registered on TWAD Board online web portal
  - iii. further informed that the location of water supply along with quantity will also be sent shortly.
- ✓ Subsequently, SIPCOT industrial water requirement was finalized as 49 MLD including the 9 mld requirement of OLA Electronics scooter pvt Ltd, Krishnagiri District which falls under Bargur SIPCOT Phase IV.
- ✓ Now the demand for Hogenakkal CWSS phase-II is finalized as 304.83 mld for ultimate stage of 2056 which includes 49 mld water supply to M/s.SIPCOT and the DPR for the Hogenakkal Combined Water Supply Scheme to Hosur Corporation, Dharmapuri Municipality,16 Town Panchayats and 6802 Rural Habitations in 20 Panchayat Unions in Dharmapuri and Krishnagiri Districts(Phase-II) is prepared at a cost of Rs.7890.00 Crore to install and Rs.179.06 Crore to maintain annually. The proportionate cost for supply of 49 mld water supply to M/s.SIPCOT works out to Rs.647.50 crore. The executive summary of the project is appended herewith.

The beneficiary wise Industrial requirements for 49 mld (Ult.2056) and the location detail is as below.

Sl. No.	Beneficiary	Location	Quantity in MLD
1	Adhagappadi SIPCOT, Dharmapuri. (Including Future land bank in Dharmapuri District)	Gravity main line of MBR to Uthangarai @ LS 28800 (Near Dharmapuri Municipality Tapping) (Package II)	16.75
2	Bargur SIPCOT, Krishnagiri (Including Ola Electronics)	Gravity main line of MBR to Uthangarai @ LS 60871 (Near Olaipatty Tapping) (Package II)	12.00
3	Hosur SIPCOT, Krishnagiri (Ext Hosur SIP, Kurubarapalli SIP, Shoolagiri SIP, Future land bank and expansion)	Anthiwadi sump (Package IV)	20.25
		Total	**49.00**

- ✓ Now, the Preliminary Project Proposal Report for Hogenakkal CWSS phase – II is prepared and uploaded in the Department of Economic affairs, GoI web portal vide PPPR ID 12071 for availing external assistance to the urban and rural components.

In as much as this project is announced for implementation by the Hon'ble Chief Minister of Tamilnadu and the fund tie up process for urban and rural components of the project is moving in fast pace, SIPCOT is requested

- ✓ to register the request of the water supply demand of SIPCOT through online web portal
- ✓ to remit the applicable upfront deposit towards investigation charges for preparation of Detailed project report of Rs.58.00 lakh which will be adjusted during remittance of proportionate project cost.
- ✓ to remit the proportionate project cost of Rs.647.50 crore (646.92+0.58) as consented vide reference 3rd cited.

Further SIPCOT is informed that dedicated components for water supply to SIPCOT will be taken up on request at the time of implementation of Hogenakkal Phase II project.

Request your early compliance in this regard.

Sd/-03.05.2023
Managing Director,
TWAD Board, Chennai-5.

05/05/2023

for Managing Director,
TWAD Board, Chennai-5.

05/05/23

EXECUTIVE SUMMARY

Combined Water Supply Scheme for Hosur Corporation, Dharmapuri Municipality, 16 Town Panchayats and 6802 Rural Habitations in 20 Panchayat Unions in Dharmapuri and Krishnagiri Districts (Hogenakkal CWSS- Phase II).

Raw Water	251.60MLD (Int) 304.83MLD (Ult)	Total Estimate cost	**Rs. 7890.00 crore**
		Estimate cost (**excluding Institutional proportionate cost**) Institutional proportionate cost	**Rs. 7144.82 crore** **Rs.745.18 crore.**
Treated Water	244.27MLD (Int) 295.95MLD (Ult)	TWAD Board Components In Village Components Total	**Rs.6614.70 crore** **Rs. 530.12 crore** **Rs.7144.82 crore**
Source	River Cauvery u/s side of existing Hogenakkal Phase-I Head works .	Annual Maintenance Cost	**Rs.179.06 crore**
		Cost/1000 litre	**Rs. 60.72/-**
		Cost/1000 litre for Annual Maintenance alone	**Rs. 19.50/-**
		Per capita cost (Present)	**Rs. 20,325/-**

(Announcement made by the Honorable Chief Minister of Tamil Nadu on 20.01.2022 for implementing Hogenakkal Combined Water Supply Scheme - Phase II)

Prefatory:

Dharmapuri District is situated in the north western part of the Tamilnadu which is in arid and water scarce region. It is located approximately between 11° 47" and 12° 33" of the North Latitude and between 77° 02" and 78° 40'30" of east longitude. The total geographical area of the district is 4497 Sq.kms. Dharmapuri District is surrounded by Thiruvanamalai, Villupuram Districts in the East, Karnataka State in the West, Krishnagiri District in the North and Salem District in the South. The Normal Rainfall of the District is 902.1 mm. Dharmapuri District consists of Dharmapuri Municipality, 10 town panchayats and 10 panchayat unions having 2835 rural habitations. The population of Dharmapuri district as per 2011 Census is 15,06,843.

Krishnagiri District is situated in the north western part of the Tamilnadu which is in arid and water scarce region. Krishnagiri district is bounded by Thirppathur and Thiruvannamalai districts in the East, Karnataka state in the west, Andhra Pradesh state in the North and Dharmapuri District in the south. Its area is 5143 Sq. Kms. This district is elevated from 300m to 1400m above the mean sea level. It is located between 11º 12'N to 12º 49'N Latitude, 77º 27'E to 78º 38'E Longitude.The average rainfall is 830 mm per annum.Krishnagiri District consists of Hosur Corporation, Krishnagiri Municipality, 6 town

panchayats and 10 panchayat unions having 3983 rural habitations. The population of Krishnagiri district as per 2011 census is 18,79,809.

2.Need for the proposal:

The two Districts viz Dharmapuri and Krishnagiri are drought prone Districts with limited ground water potential. Due to failure of monsoon, water table in the bore wells has gone below 1000 feet. The quality of local sources is not good enough for drinking because of fluoride and other contaminants.

Also, the sustainability of local sources is not reliable. Most of the local bore well sources are depleted and become dry during summer months. At present, an average 52 lpcd for urban areas and 30 lpcd for rural habitations is supplied from Hogenakkal CWSS Phase –I.

The Hon'ble Chief Minister of Tamilnadu had announced on 20.01.2022 that a detailed project report for implementing Phase II of Hogenakkal Combined Project to enhance the water supply to Dharmapuri and Krishnagiri districts will be prepared.

Accordingly, in order to enhance the service level to 135 lpcd to Corporation, Municipality, 90 lpcd to Town panchayats and to 55 lpcd to rural habitations, it is necessitated to formulate Hogenakkal Combined Water Supply Scheme Phase II.

3. Project Area:

i. Urban Beneficiaries:

Sl. No	District	Corporation	Municipality	Town panchayat
1	Dharmapuri	-	1 No Dharmapuri	10 Nos Pennagaram, Kadathur, Kambainallur, B.Mallapuram, Harur, Pappireddipatty, Palacode, Karimangalam, Papparapatty, Marandahalli
2		1 No Hosur	-	6 Nos Kaveripattinam, Nagojanahalli, Bargur, Uthangarai, Kelamangalam, Denkanikottai
		1 No	1 No	16 Nos

ii.Rural Beneficiaries:

Sl. No	District	No of Panchayat Union	No of Panchayat	No of Habitations
1	Dharmapuri	10	251	2828
2	Krishnagiri	10	333	3974
	Total	**20**	**584**	**6802**

4. Existing Water Supply Arrangements:

At present Water supply is being effected to certain areas through small 25 CWSS (Dharmapuri District - 8 Nos & Krishnagiri District - 17 Nos) with non-perennial river sources (Thenpennaiyar, Chinnar and Vaniyar) and to Urban & Rural beneficiaries of both the Districts through Mega CWSS namely Hogenakkal Water Supply and Fluorosis Mitigation Project for Dharmapuri and Krishnagiri Districts with River Cauvery as source which was designed to supply 30 lpcd for rural habitations and an average 52 lpcd for urban areas considering existing supply.

Apart from the above, water supply is effected through Individual Power Pump schemes with Bore well/open well sources. The local sources are dry during summer and quality wise not dependable due to presence of high fluoride and other contaminants.

5.Sustainability of existing sources:

Thenpennaiyar River, Vanniyar River and Chinnar River flowing through these districts are not perennial and hence not sustainable. The present level of sustainable supply with these rivers as source is taken as 15 lpcd.

In the proposed Hogenakkal CWSS Phase II for Dharmapuri and Krishnagiri districts, the existing water supply of 70.79 mld (around 75 lpcd – 100 lpcd) for the urban beneficiaries and 110.79 mld (around 35 lpcd) for rural beneficiaries from the above schemes has been taken in to account for arriving balance demand.

The quality of local sources is not good enough for drinking because of fluoride and other contaminant and hence supply from local sources are not considered.

6. Population and Demand:

The population projection for Corporation, Municipalities and Town Panchayats in Dharmapuri and Krishnagiri districts have been made by considering the growth of the individual towns and the development expected in the area of education, industrial, business, migration & present trend of increase in population and the population projection for base year (2026), Intermediate year (2041)& Ultimate year (2056) have been calculated with various methods as prescribed in CPHEEO manual.

The population projection for Rural is projected for various design periods i.e. base year (2026), Intermediate year (2041), Ultimate year (2056) as per JJM guidelines and as per the available historical data from the Census data.

The water requirement has been arrived by adopting the per capita supply for Corporation and Municipality beneficiaries at 135 lpcd, Town Panchayats at 90 lpcd and Rural beneficiaries at 55 lpcd including Commercial Demand @ 10%, Transmission Loss at 10% and Treatment Loss at 3%. As per JJM guidelines, water requirement of Schools, Anganwadies, Hospital, Public buildings, etc, have been taken into account.

A bulk provision of 56.95 mld has been made towards the industrial demand for the development of the industries for which proportionate cost will be shared by them.

The population, water demand for Urban and Rural beneficiaries after deducting the existing supply has been furnished as below.

Overall Demand:

Name of Beneficiaries	Projected Population			Pro rata supply in lpcd	Existing water supply in mld	Final requirement in mld (including Transmission loss & Industrial demand Each @ 10%)		
	Base 2026	Inter 2041	Ult 2056			Base 2026	Inter 2041	Ult 2056
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
Mpty-Corporation	495200	638300	819200	135	49.71	24.02	42.93	66.70
Urban- Town panchayat	282400	321300	360700	90	21.08	13.11	17.27	21.56
Rural	3104397	3481801	3873100	55	110.79	105.61	127.12	150.74
Industrial demand						56.95	56.95	56.95
Total for Dharmapuri & Krishnagiri Districts	**3881997**	**4441401**	**5053000**		**181.58**	**199.69**	**244.27**	**295.95**
Treatment Loss @ 3%						5.99	7.33	8.88
Grand Total for Dharmapuri & Krishnagiri Districts						**205.68**	**251.60**	**304.83**

District wise Break up Details									
Name of Beneficiaries	No of habitations	Projected Population			Prorata supply in lpcd	Existing water supply in mld	Final requirement in mld (including Transmission loss & Industrial demand Each @ 10%)		
		Base 2026	Inter 2041	Ult 2056		Total	Base 2026	Inter 2041	Ulti 2056
Dharmapuri District									
Dharmapuri Municipality	1	75200	81800	88400	135	8.12	3.45	4.53	5.61
Urban- Town panchayat	10	172100	196600	221200	90	12.31	8.66	11.33	14.01
Rural	2828	1463800	1639900	1819300	55	50.14	47.28	57.55	68.65
Urban & Rural		1711100	1918300	2128900		**70.57**	**59.39**	**73.41**	**88.27**
Industrial demand							16.75	16.75	16.75
Total for Dharmapuri District							**76.14**	**90.16**	**105.02**
Krishnagiri District									
Hosur- Corporation	1	324900	434000	572900	135	28.75	20.57	38.40	61.09
Urban- Town panchayat	6	110300	124700	139500	90	8.77	4.45	5.94	7.55
Rural	3974	1640597	1841901	2053800	55	60.65	58.33	69.57	82.09
Urban & Rural		2170897	2523101	2924100		**111.01**	**83.35**	**113.91**	**150.73**
Industrial demand							40.20	40.20	40.20
Total for Krishnagiri District						**181.58**	**123.55**	**154.11**	**190.93**

7. Source:

Selection of source:

Since the local river sources are not potential enough to draw huge quantity of water and also quality wise not dependable, river Cauvery flowing through Dharmapuri district is the only viable source for formulation of new combined water supply scheme to enhance the supply level for both Dharmapuri and Krishnagiri Districts.

8. Scope of the Proposal:

The scope of the project is divided into 5 Packages. The coverage details of the packages are as detailed below.

S. No	Name of Packages	Corporation & Municipality	Town Panchayat	No of Habitations		
				Dharmapuri District	Krishnagiri District	Total
1	Package I	Intake arrangements, raw water Booster station-I & II, Raw water Pumping main, Water Treatment Plant, Pump House and Pumping Machineries for the entire project, Master Balancing Reservoir of 186.10 LL				
1	Package II	Dharmapuri Municipality	1. Pennagaram 2. Uthangarai	853	754	1607
2	Package III	--	3. Kadathur, 4. Kambainallur 5. B.Mallapuram, 6. Harur 7. Pappireddipatty	1048	---	1048
3	Package IV	Hosur Corporation	8. Kelamangalam 9. Denkanikottai	97	1723	1820
4	Package V	--	10. Papparapatty 11. Palacode 12. Marandahalli 13. Karimangalam 14. Kaveripattinam 15. Nagojanahalli 16. Bargur	830	1497	2327
	TOTAL			2828	3974	6802

9. Detailed description of the proposal:

Package 1:

Package I covers Intake arrangements at Head works, raw water Booster station-I & II, Raw water Pumping main, Water Treatment Plant, Pump House and Pumping Machineries for the entire project, Master Balancing Reservoir of 186.10 LL for Package – 2 & 3 proposed at Water Treatment Plant premises and SCADA arrangements.

It is proposed to tap the Ultimate raw water requirement of 304.83mld (125 Cusec) of surface water from river Cauvery at Hogenakkal through intake arrangements in the upstream side of existing Hogenakkal Phase-I Head works of Dharmapuri District.

Raw water will be pumped (Int-19.5 hours & ult-23 hrs)

- ✓ From head works raw water is pumped (23 hrs) for 7.20 Km through 1829mm x 14.20mm MS pipe to the raw water Booster station-I at

Yanaipallam by means of 8 Nos of Vertical turbine pumpset of duty 27612 lpm against 78 m head.

- ✓ From Booster station I raw water is pumped (23 hrs) for 2.0 Km through 2032mm x 20.00 mm (0.90 Km) and 2032mm x 16.00 mm MS pipe (1.10 Km) to Booster station-II at Kanavai by means of 8 Nos of Vertical turbine pumpset of duty 27612 lpm against 147 m head.
- ✓ From Booster station-II raw water is pumped (23 hrs) for 11.00 Km through 1829 mm x 14.20 mm MS pipe to Water Treatment Plant of 304.83 mld capacity (Ult.) at Paruvathanahalli by means of 8 Nos of vertical turbine pumpset of duty 27612 lpm x 103 m head. The treated water will be collected in the clear water reservoir of 120.35LL capacity.
- ✓ From the Clear water reservoir
  - a quantity of 77531 lpm (106.99 mld) will be pumped (23 hrs) for 0.50 Km through 1067 x 8.8mm MS pipe to the proposed 186.10 LL capacity Master Balancing Reservoir (MBR) at WTP premises to serve the requirement of the Package 2 & 3 using by means of 4 Nos of vertical turbine pumpset of duty 19383 lpm against 44 m head .
  - a quantity of 136926 lpm (188.96 mld) will be pumped (23 hrs) for 37.23 Km through 1422 x 12.5mm MS pipe to the proposed common booster Pumping station at Sugar mill at Palacode for the requirement of package 4&5 by means of 4 Nos of vertical turbine pumpset of duty 34232 lpm against 85 m head. This falls under package 5.

Package-2:

Package 2 covers 1607 habitations in 4 unions of Dharmapuri District, 2 unions in Krishnagiri District and Dharmapuri Municipality, 2 Town Panchayats namely Pennagaram in Dharmapuri District & Uthangarai in Krishnagiri District and SIPCOT are covered under this package.

- ✓ From the MBR at Paruvathanahalli,
  - a quantity of 8267 lpm (11.90 mld) will be gravitated to serve **Pennagaram Town panchayat** and 261 habitations in Pennagaram and Eriyur unions through 4 Nos of gravity main.

- a quantity of 66034 lpm (95.09 mld) will be gravitated for 79.29 m to Uthangarai Master Balancing reservoir after feeding 5 Union Master Balancing reservoirs, 2 union sumps and 3 tapings through another gravity main. From Uthangarai Master Balancing reservoir water will be gravitated to sump at **Uthangarai Town panchayat.**

✓ At LS 28,800m of gravity main to Uthangarai Master Balancing reservoir, a quantity of 3894 lpm (5.61mld) will be tapped to serve 6 Nos of Service reservoirs (existing) of **Dharmapuri municipality**. A quantity of 16.75 mld for industrial demand will be available in the gravity main upto LS 28,800 m.

✓ At LS 30,510m gravity main to Uthangarai Master Balancing reservoir a quantity of 20544 lpm (29.58 mld) will be branched near Mathikonpalayam for Package 3.

✓ Further, a quantity of 12.00 mld towards industrial demand will be available in the gravity main to Uthangarai Master Balancing reservoir upto LS 60871 m near Olaipatty.

✓ **Rural** - From 5 nos of Union Master Balancing reservoirs/ 15 nos of Union sumps water will be gravitated/pumped to 47 nos of panchayat Master Balancing reservoirs/ 129 nos of panchayat sumps. 7 Nos of Break pressure tanks are also proposed. From panchayat Master Balancing reservoirs/ Sumps, water will be gravitated/pumped to 2506 Nos of service reservoirs (Exist- 2124 nos & Prop-382 Nos). Total length of gravity /pumping main and branch main proposed is 2802.536 km (711mm to 1626 mm MS- 79.29 km,100 mm to 600mm DI-240.62 km, 63mm to 225 mm HDPE– 2482.625 km.

Infrastructures for Municipality and Town panchayats

The components proposed for urban beneficiaries are as detailed below:

Name of Towns	Sump (Nos)	Feeder main in Km	Service Reservoir in Nos		Distribution system in km		House service connection in Nos	
			Existing	Proposed	Existing	Proposed	Existing	Proposed
Dharmapuri Municipality		9.092	6	-	77.42	54.194	10973	618
Pennagaram	1	14.789	14	-	41.682	-	1441	3609

Name of Towns	Sump (Nos)	Feeder main in Km	Service Reservoir in Nos		Distribution system in km		House service connection in Nos	
			Existing	Proposed	Existing	Prop-osed	Exist-ing	Pro-posed
Town panchayat								
Uthangarai Town panchayat	1	10.406	8	-	35.00	-	2175	3087
Total	2	34.287	28	-	154.102	54.194	14589	7314

Package 3:

Under Package-3, 1048 Rural Habitations in 6 unions are covered in Dharmapuri District. Other than rural habitations, 5 Town panchayats namely Kadathur, Kambainallur, B.Mallapuram, Harur and Pappireddipatty in Dhramapuri District are covered under this package.

- ✓ From LS 30,510m (near Mathikonpalayam) of gravity main from the Master Balancing Reservoir at Paruvathanahalli, a quantity of 20544 lpm (29.58 mld) will be gravitated for 39.54 Km through to Pappireddypatti union Master Balancing Reservoir through MS pipes of 1067 mm x 8.80 mm, 711 mm x 7.10 mm size and 500 mm DIK9 Pipes. **Pappireddipatty Town panchayat** and union will be fed From Pappireddypatti union Master Balancing Reservoir.
- ✓ From gravity main to Master Balancing Reservoir
    - At LS 12240m water will be branched to Semmanahalli union Master Balancing Reservoir to serve **Kambainallur Town panchayat, Kadathur Town panchayat** and 2 unions.
    - At LS 16945m water will be branched to Harur union Master Balancing Reservoir to serve **Harur Town panchayat** and Harur union.
    - At LS 33185 m water will be branched to B. Mallapuram Town panchayat Master Balancing Reservoir to serve **B. Mallapuram Town panchayat**.
- ✓ From the gravity main to Pappireddypatti union Master Balancing Reservoir water will be supplied by gravity to 4 Nos of Union Master Balancing Reservoirs and 1No of union sump and from there water will be supplied to 36 Nos of Panchayat Master Balancing Reservoirs, 134 Nos of Panchayat sumps and 5 Town Panchayats through

538.47 km length of gravity/Pumping Mains (100mm to 600mm DI & 63mm to 225mm HDPE).

- ✓ From panchayat Master Balancing Reservoirs and sumps water will be conveyed to 1514 nos of existing and 295 nos of proposed service reservoirs of various capacity mostly by gravity and partially through pumping to all habitations through various size of through feeder main of 2193.63 km (100mm - 600mm DI & 63mm - 225mm HDPE). 3 Nos of Break pressure tanks are also proposed.

Infrastructures for Town panchayats

The components proposed in the Town Panchayats are as detailed below:

Name of Town panchayats	MBR (Nos)	Sump (Nos)	Feeder main in Km	Service Reservoir in Nos		Distribution system in km		House service connection in Nos	
				Exist-ing	Pro-posed	Exis-ting	Pro-posed	Exist-ing	Pro-posed
1.Kadathur	1	2	14.792	7	-	31.942	6.15	1250	2386
2.Kambainallur	1	2	20.067	17	-	53.174	-	452	2871
3.B.Mallapuram	1	1	15.97	12	-	36.71	11.75	95	3118
4.Harur	1	1	15.33	9	3	39.749	-	1280	6704
5.Pappireddipatty	1	1	9.959	7	-	35.467	10.00	464	2699
Total	**5**	**7**	**76.118**	**52**	**3**	**197.042**	**27.9**	**3541**	**17778**

Package 4:

Package-4 covers 1820 habitations in 5 unions in Krishnagiri District and Karimangalam union in Dharmapuri District. Other than rural habitations, Hosur Corporation and 2 Town panchayats namely Kelamangalam and Denkanikottai in Krishnagiri District are covered under this Package.

- ✓**From common Booster Station at Sugarmill** , the requirement of 134.97 MLD of Package 4, will be pumped (23 hrs) for 11 km through 1219mm X 10mm MS pipe pipe to **Booster station at Mahendramangalam** using Vertical turbine pumpsets of duty 24451 lpm against 81m head (4W+2S).
- ✓**From the proposed BPS at Mahendramangalam** water is pumped (23 hrs) for 8 Km through 1219mm X 10mm MS pipe **to Booster station at Kaduchettypatty** using by Vertical turbine pumpsets of duty 24451 lpm X 120m head (4W+2S).

✓**From this Kaduchettypatty BPS,**

- water will be pumped (18 hrs) for 30 m through 200 mm DI K7 to MBR at 7.60LL cap **Master Balancing Reservoir at Karimangalam** to serve Karimangalam union (part) for 97 habitations in 5 village panchayats
- water will be pumped (23 hrs) for 6.75 Km through 400 mm DI K9 pipe to 24.50 LL cap **Master Balancing Reservoir at Rayakottai** to serve Shoolagri union (part), Kelamangalam union (part) and Veppanapalli union by means of 7086 lpm X 119 meter Head Vertical Turbine pumpset.
- water will be pumped (23 hrs) for 13.90 Km through 1219mm X 10mm MS pipe to **Booster station at Ullukurukai using** Vertical turbine pumpsets of duty 22129 lpm X 98 m head (4W+2S). In this Ullukurukai sump a bulk provision of 7.95 MLD is proposed for industrial purpose.

✓Water is pumped (23 hrs) from **Booster Station at Ullukurukai** for 19.195 Km through 1219mm X 11mm MS, 1219mm X 10mm MS and 1118mm X 8.8mm MS pipe to **Break pressure sump at Jakkeri and Break pressure sump at Manjalagiri** using Vertical turbine pumpsets of duty 20689 lpm X 121 m head (4W+2S).

✓From this **Jakkeri Break pressure sump,**

- water is pumped (18 hrs) for 5 Km through 200 mm DI K7 pipe to 2.60 LL cap MBR at **Kelamangalam Town panchayat**
- water is pumped (18 hrs) to serve **Kelamagalam union (part)**
- water is pumped (18 hrs) to **Denkanikottai Break pressure sump** to serve **Denakanikotta Town panchayat** , Kelamagalam union (part) and Thally union (part)

✓ **From Booster Station at Manjalagiri** water will be pumped (23 hrs) for 10.905 Km through 1219mm X 10mm MS pipe to 113.90 LL cap **Master Balancing Reservoir at Anthiwadi , 30.35 LL cap Break pressure sump at Anthiwadi (for rural habitations) and 44.05 LL cap at**

Anthiwadi (industrial sump) using Vertical turbine pumpsets of duty 18184 lpm X 103 m head (4W+2S)

- ✓ **From this 113.90 LL cap Master Balancing Reservoir at Anthiwadi**
  - water will be gravitated to Badadhipalli Break pressure sump to serve Shoolagiri union (part) , Hosur union (part).
  - water will be gravitated to serve **Hosur corporation**.
- ✓ From **30.35 LL cap Break pressure sump at Anthiwadi**
  - it is proposed pump (18 hrs) to serve Hosur union (part) and and Shoolagiri union (part)
  - water will be pumped (18 hrs) to serve Thally union (part).
- ✓ From **44.05 LL cap Break pressure sump at Anthiwadi,** water will be tapped to serve bulk provision of 20.25 mld for Industrial demand Hosur industrial complex.

On Summarizing, water from Common Booster Station near Sugarmill at Palacode will be pumped through 30 Nos of union sumps and 2 Nos of union Master Balancing Reservoir. From union sumps water will be supplied to 153 Panchayat Master Balancing Reservoir, 83 Panchayat sump, 14 BPT through 2689.04 Km length of pumping main, branch main and feeder mains (711 mm to 1219mm MS, 100mm to 600mm DI, 250mm to 400mm OPVC, 63mm to 225mm HDPE). From union Master Balancing Reservoirs and sumps water will be supplied to all habitations through 335 Nos of proposed and 1682 Nos of Existing service reservoirs of various capacity by pumping and gravity.

Infrastructures for Urban Beneficiaries:

The components proposed are as detailed below:

Name of Towns	MBR (nos)	Sump (nos)	Feeder main (Km)	SR in Nos		Distribution system in km		House service connection in Nos	
				Existing	Proposed	Exist	Prop	Existing	Proposed
Hosur Corporation	1	2	100.384		26		388.953		50000
Kelamangalam Town panchayat	1	-	5.142	5	-		34.865		3101
Denkanikottai Town panchayat	-	-	27.291	6	2		61.498		5072
Total	2	2	132.817	11	28	0	485.316	0	58173

Package 5:

Package-5 covers 830 habitations in 3 unions in Dharmapuri District, 1497 habitations in 3 unions in Krishnagiri District. Other than rural habitations, 4 Town panchayats namely Papparapatty, Palacode, Marandahalli, Karimangalam in Dharmapuri District and 3 Town Panchayats namely Kaveripattinam, Nagojanahalli, and Bargur in krishnagiri District are covered under this Package.

- ✓ At LS 19100 m of transmission main from Clear water Reservoir at Water Treatment Plant to **common Booster Station at Sugarmill** near Palacode water will be branched to serve O.G.Halli and Pikkili union sumps.
- ✓ From **O.G.Halli sump** water will be pumped (18 hrs) to 6 panchayats of Pennagaram union (Part) & **Papparapatti Town panchayat.**
- ✓ **From Pikkili sump** water will be pumped (18 hrs) to 4 panchayats of Pennagaram union (Part) and 1 panchayat (part) of Palacode union.
- ✓ **From common Booster Station at Sugarmill** near Palacode,
  - **Palacode Town panchayat** will be served
  - it is proposed to pump to P.Chettihally union Sump and Palacode Union Master Balancing Reservoir (Valaithottam)
    - ➢ From Palacode union Master Balancing Reservoir water will be conveyed by gravity to Palacode union part.
    - ➢ From P.Chettihalli union sump, water will be conveyed by pumping to Palacode union part and **Marandahalli Town panchayat.**
  - Water will be pumped to Kalkuttapatti Break pressure tank and branched to Karimangalam union Master Balancing Reservoir.
  - From Kalkuttapatty Break pressure tank
    - ➢ water will be conveyed by gravity to **Kaveripattinam Town panchayat, Nagojanahalli Town panchayat** and 36 panchayat's.
    - ➢ water will be gravitated to proposed Break Pressure sump near dam road, Orappam booster Pumping Station, Mathepalli sump and **Bargur Town panchayat.**

- From Mathepalli sump water will be pumped to Kodiletti and Oppathavadi Master Balancing Reservoirs and Break pressure sump at Sinthagampalli
- From Oppathavadi Master Balancing Reservoirs and Break pressure sump at Sinthagampalli and union Master Balancing Reservoirs at Kodiletti Bargur union part will be fed.
- From proposed Break pressure sump at Dam Road, Krishnagiri union part will be fed by pumping.
- From Break pressure sump at Orappam water will be conveyed by pumping to part of Bargur union.

- From Karimangalam union Master Balancing Reservoirs water will be conveyed by gravity to **Karimangalam Town panchayat**, Karimangalam union part and one sump near Karimangalam union Master Balancing Reservoirs to feed Karimagalam union.

From panchayat Master Balancing Reservoirs water will be conveyed mostly by gravity to service reservoirs of habitations and in few cases by pumping through intermediate internal net work sump. Thus from the Water treatment plant at Paruvathanahalli, water will be conveyed through a network of gravity/pumping Main, branch mains and feeder mains of about 1887.70 km length of pipes (711mm to 1422mm MS, 100mm to 600mm DI, 160 mm to 315 mm OPVC and 63mm to 280mm HDPE) spread over Dharmapuri and Krishnagiri districts.

Infrastructures for Town panchayats

The components proposed in the Town Panchayats are as detailed below:

Name of Town panchayats	Sump (nos)	Feeder main (Km)	Service Reservoir in Nos		Distribution system in km		House service connection in Nos	
			Existing	Proposed	Existing	Proposed	Existing	Proposed
Papparapatty	1	9.00	9	-	26.00	-	3408	-
Palacode	-	9.465	10		27.00	-	3320	-
Marandahalli	1	1.85	3	-	20.00	10.00	3290	2000
Karimangalam	1	7.85	5	-	27.00	8.00	2050	3100
Kaveripattinam	1	5.98	7	-	5.98	-	1876	-

Name of Town panchayats	Sump (nos)	Feeder main (Km)	Service Reservoir in Nos		Distribution system in km		House service connection in Nos	
			Existing	Proposed	Existing	Proposed	Existing	Proposed
Nagojanahalli	1	12.22	10	-	8.00	10.00	1061	1700
Bargur	2	12.502	11	-	23.50	11.00	1721	2566
Total	7	58.867	55	0	129.5	39.00	16726	9366

10. Industrial Requirement:

The beneficiary wise Industrial requirements for 56.95 mld (Ult.2056) and the location detail is as below.

Sl. No.	Beneficiary	Location	Quantity in MLD
1	SIPCOT, Dharmapuri	Gravity main line of MBR to Uthangarai @ LS 28800 (Near Dharmapuri Municipality Tapping) (Package II)	16.75
2	SIPCOT, Dharmapuri	Gravity main line of MBR to Uthangarai @ LS 60871 (Near Olaipatty Tapping) (Package II)	12.00
3	SIPCOT, Krishnagiri	Anthiwadi sump (Package IV)	20.25
4	M/s TATA Electronics	Ullukurukai Booster pumping stations (Package IV)	7.95
		Total	**56.95**

11. Details of Infrastructures for all packages:

A. Details of Group sumps/ MBR/BPT and OHTs of Dharmapuri and Krishnagiri Districts :

Sl.No	Package No	Union MBR	Panchayat MBR	Union sump	Panchayat Sump	BPT	OHT-12 m Staging
1	II	5	47	15	129	7	382
2	III	4	36	1	134	3	295
3	IV	4	153	30	83	14	335
4	V	4	83	19	97	2	513
	Total	**17**	**319**	**65**	**443**	**26**	**1525**

B. Details of Pumpsets in Dharmapuri and Krishnagiri Districts:

Sl.No	Package No	Vertical Turbine Pump	Horizontal split casing Pump	Open Well Submersible Pump	Total
1	I	34	--	--	**34**
2	II	--	8	140	**148**
3	III	--	15	132	**147**
4	IV	22	5	145	**172**
5	V	3	7	164	**174**
	Total	**59**	**35**	**581**	**675**

C. Details of Pipe:

S.No	Size of Pipe	Length in Km					
		Pack-I	Pack-II	Pack-III	Pack-IV	Pack-V	Total
I	**M.S Pipe (2000 mm to 700mm)**						
A	Pumping Main/ Gravity main & Branch Main	20.70	79.29	32.76	63.24	82.53	**278.52**
B	Feeder Main				0.23		**0.23**
II	**DI Pipe (100mm to 600mm)**						
A	Pumping Main/ Gravity main & Branch Main		33.53	34.78		20.90	**89.21**
B			158.67	175.39	825.26	531.89	**1691.21**
C	Feeder main		48.43	81.23	26.15	25.60	**181.41**
III	**OPVC Pipe (250 mm to 400 mm)**						
A	Pumping Main/ Gravity main & Branch Main				-	22.39	**22.39**
IV	**HDPE Pipe (63mm to 225 mm)**						
A	Pumping Main/ Gravity main & Branch Main		18.30	0.06		26.02	**44.38**
b			359.03	363.08	241.88	376.91	**1340.90**
c	Feeder main		2105.30	1582.45	2447.15	823.84	**6958.74**
	Total	**20.70**	**2802.55**	**2269.75**	**3603.91**	**1910.08**	**10606.99**
	Total Length of M.S. pipe (in Km)						**278.75**
	Total Length of D.I Pipe (in Km)						**1961.83**
	Total Length of OPVC Pipe (in Km)						**22.39**
	Total Length of HDPE Pipe (in Km)						**8344.02**
	Grand total length of Pipe (in Km)						**10606.99**

12. Disinfection:

Pre Chlorination and Post Chlorination has been proposed at WTP .Disinfection arrangements have been proposed using re-chlorination arrangement at required MBRs/Sumps.

S.No	Package No	Re-chlorination Location
1	II	9
2	III	5
3	IV	10
4	V	17
	Total	**41**

13. Rates:

The Detailed Project Report has been prepared based on the current schedule of rates for TWAD Board / PWD Schedule of rates for the year 2022-23. Local market rates are adopted for the items not covered in the schedule of rates.

14. Cost of the project:

Total Estimate cost	**Rs. 7890.00 crore**
Estimate cost (**excluding Industrial proportionate cost**) Proportionate cost for Industrial demand	**Rs. 7144.82 crore** **Rs.745.18 crore.**
TWAD Board Components In Village Components Total	**Rs.6614.70 crore** **Rs. 530.12 crore** **Rs.7144.82 crore**
Annual Maintenance Cost	**Rs.179.06 crore**
Cost/1000 litre	**Rs. 60.72/-**
Cost/1000 litre for Annual Maintenance alone	**Rs. 19.50/-**
Per capita cost (Present)	**Rs. 20,325/-**

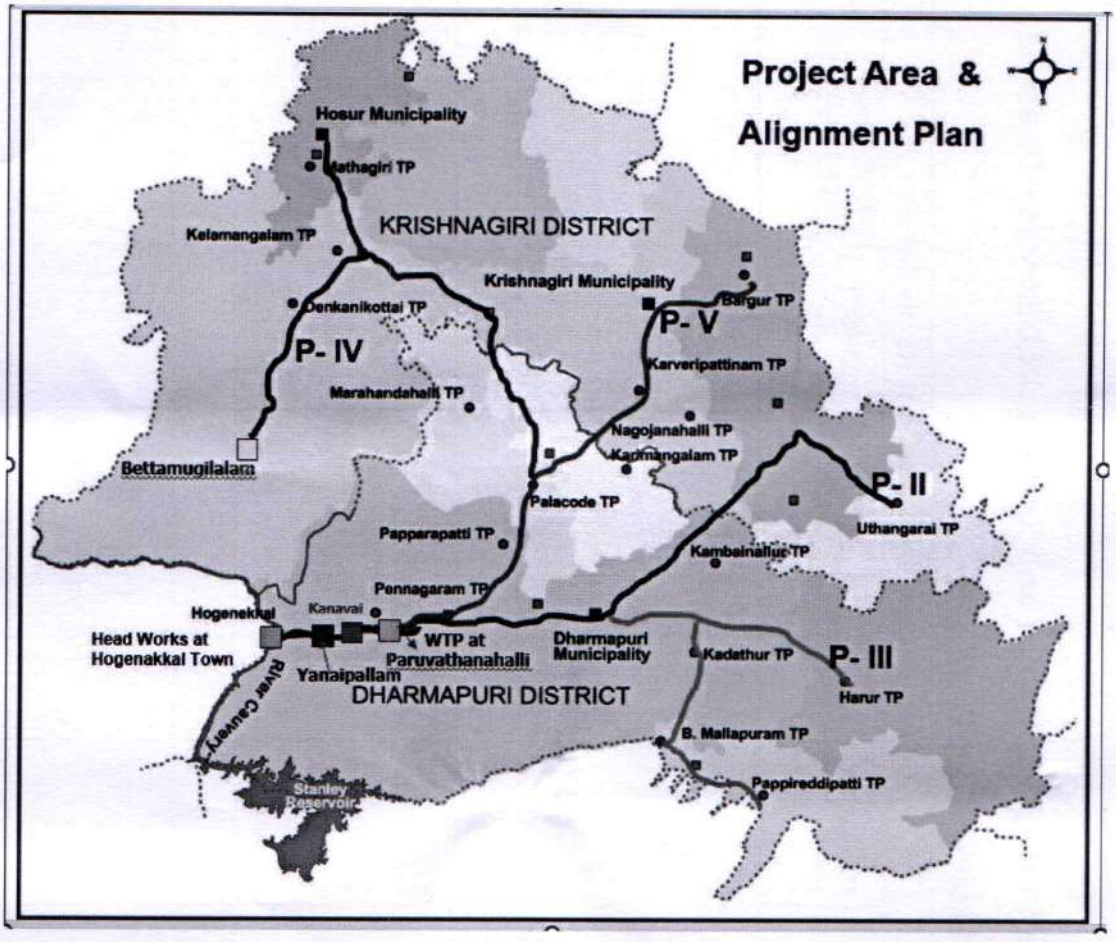
The proportionate cost of the Beneficiaries is as detailed below:

Rs in crore

Sl. No	Beneficiaries	Proportionate Cost	Invillage Est Cost	Total
1	Hosur Corporation	1467.76		1467.76
2	Dharmapuri Municipality	74.05		74.05
3	Town Panchayats	563.06		563.06
A	**Total Urban cost**	**2104.87**		**2104.87**
B	**Rural cost**	**4509.83**	**530.12**	**5039.95**
5	SIPCOT	647.51		647.51
6	TIDCO (Tata Electronics)	97.67		97.67
C	**Industries cost**	**745.18**		**745.18**
	Grand Total (A+B+C)	**7359.88**	**530.12**	**7890.00**

15. Maintenance

On completion of the project and after the Contractor's maintenance period the scheme will be maintained by TWAD Board.


Project Area &
Alignment Plan
Hosur Municipality
Mathagiri TP
KRISHNAGIRI DISTRICT
Kelamangalam TP
Krishnagiri Municipality
Denkanikottai TP
Bargur TP
P- V
P- IV
Karveripattinam TP
Marahandahalli TP
Nagojanahalli TP
Kammangalam TP
Bettamugilalam
P- II
Palacode TP
Uthangarai TP
Papparapatti TP
Kambainallur TP
Pennagaram TP
Hogenakkal
Kanavai
Head Works at
Hogenakkal Town
WTP at
Paruvathanahalli
Dharmapuri
Municipality
Kadathur TP
P- III
Yanaipallam
DHARMAPURI DISTRICT
Harur TP
River Cauvery
B. Mallapuram TP
Stanley
Reservoir
Pappireddipatti TP

Hogenakkal Combined Water Supply scheme for Dharmapuri and Krishnagiri Districts - Phase II.

Overall Project Cost Estimate

Sl No	Descripton of work	TWAD Components -Amount Rs. in Crores						
		Corporation	Municipality	Town Panchayat	Rural Habitations	SIPCOT	TIDCO (Tata Electronics)	Total
1	**Package - I**							
	From Headworks at Hogenakkal to Water Treatment Plant at Paruvathanahalli - Headworks, Raw water Transmission Main, Raw water Booster Station-I & II, Water Treatment Plant, Master Balancing Reservoir etc., including Electro Mechanical and Instrumentation Works.	169.10	15.53	59.68	417.26	135.64	22.01	819.22
2	**Package - II**							
	Transmission Main, Internal Transmission Main, Inter Network, Sumps, Master Balancing Reservoir, Booster Pumping Sation, Overhead Tank, Pumpset and allied works from Water Treatment Plant at Paruvathanahalli to Uthangarai in 6 Unions.		25.92	41.39	546.01	90.42		703.74
3	**Package - III**							
	Transmission Main Internal Transmission Main, Inter Network, Sumps, Master Balancing Reservoir, Booster Pumping Sation, Overhead Tank, Pumpset and allied works from Mathikonpalayam to Pappireddipatty in 4 unions.			83.73	402.11			485.84

Sl No	Descripton of work	TWAD Components -Amount Rs. in Crores						
		Corporation	Municipality	Town Panchayat	Rural Habitations	SIPCOT	TIDCO (Tata Electronics)	Total
4	**Package - IV**							
	Transmission Main, Internal Transmission Main, Inter Network, Sumps, Master Balancing Reservoir, Booster Pumping Sation, Overhead Tank, Pumpset and allied works from Booster Pumping Station at Palacode (Surgarmill) in 5 Unions.	672.02		57.03	615.14	83.19	17.83	1445.21
5	**Package - V**							
	Transmission Main, Internal Transmission Main, Inter Network, Sumps, Master Balancing Reservoir, Booster Pumping Sation, Overhead Tank, Pumpset and allied works from Water Treatment Plant at Paruvathanahalli to Bargur in 5 unions.	72.89		112.26	836.11	24.17	9.49	1054.92
6	Operational staff and Chemicals for the commissioning period of 1 year	5.18	0.48	1.83	12.79	4.16	0.67	25.11
	Sub Total (1)	**919.19**	**41.93**	**355.92**	**2829.42**	**337.58**	**50.00**	**4534.04**
7	Provision for GST @ 18% on Sub Total (1)	165.45	7.55	64.07	509.30	60.76	9.00	816.13
	Sub Total (2) (Base cost)	**1084.64**	**49.48**	**419.99**	**3338.72**	**398.34**	**59.00**	**5350.17**

Sl No	Descripton of work	TWAD Components -Amount Rs. in Crores						
		Corporation	Municipality	Town Panchayat	Rural Habitations	SIPCOT	TIDCO (Tata Electronics)	Total
8	Provision for Unforeseen items & Contingencies at 2.5% on **Sub total -(1)**	22.98	1.05	8.90	70.74	8.44	1.25	113.36
9	Labour welfare fund at 1% on **Sub total -(1)**	9.19	0.42	3.56	28.29	3.38	0.50	45.34
	Sub Total (3)	**1116.81**	**50.95**	**432.45**	**3437.75**	**410.16**	**60.75**	**5508.87**
10	**Centage**							
a	Centage - 10% For urban local bodies for Subtotal -(1)	91.92	4.19	35.59				131.70
b	Centage at 13% for Rural habitations for Subtotal -(1)				367.82			367.82
c	Centage at 18.5% for SIPCOT for Subtotal -(1)					62.45		62.45
d	Centage at 18.5% for TIDCO						9.25	9.25
	Sub Total (4)	**1208.73**	**55.14**	**468.04**	**3805.57**	**472.61**	**70.00**	**6080.09**
11	Price adjustment clause provision for 1st year @ 5% on **Subtotal-(2)**	54.23	2.47	21.00	166.94	19.92	2.95	267.51
12	Price adjustment clause provision for 2nd year @ 70% of 1st year	37.96	1.73	14.70	116.86	13.94	2.07	187.26
13	Testing and Inspection Charges @ 0.23% on material cost	2.06	0.19	0.73	5.09	1.66	0.27	10.00
14	Quality control testing, evaluation and conformity assessment of field samples / materials in TWAD Board (or) other labs	3.10	0.28	1.09	7.65	2.48	0.40	15.00
15	Provision for other Department payments (NHAI/NH/SH/Railway/Forest/EB/Underground Utilities/SCADA Service Provider) including 1% Service Charges	147.15	13.51	51.93	363.07	118.03	19.15	712.84
	Sub Total (5)	**1453.23**	**73.32**	**557.49**	**4465.18**	**628.64**	**94.84**	**7272.70**

Sl No	Descripton of work	TWAD Components -Amount Rs. in Crores						
		Corporation	Municipality	Town Panchayat	Rural Habitations	SIPCOT	TIDCO (Tata Electronics)	Total
16	Charges for Investigation and DPR preparation @ 1% (TWAD) / 3% (Govt)/ 5% (Private) on **sub total-(5)**	14.53	0.73	5.57	44.65	18.86	2.84	87.18
	Sub Total (6)	**1467.76**	**74.05**	**563.06**	**4509.83**	**647.50**	**97.68**	**7359.88**
17	RD & PR Components							
	Dharmapuri District				311.65			311.65
	Krishnagiri District				218.47			218.47
	Sub Total (7)	**0.00**	**0.00**	**0.00**	**530.12**	**0.00**	**0.00**	**530.12**
	Grand Total	**1467.76**	**74.05**	**563.06**	**5039.95**	**647.50**	**97.68**	**7890.00**

HOGENAKKAL CWSS PHASE - II FOR DHARMAPURI AND KRISHNAGIRI DISTRICT

ANNUAL MAINTENANCE ESTIMATE FOR THE PERIOD OF 12 MONTHS

Sl. No	Description	Amount (in Lakhs)					
		Pkg I	Pkg II	Pkg III	Pkg IV	Pkg V	Total
A	**Payable by the Contractor**						
1	Establishment Charges	134.30	395.70	536.87	598.52	525.41	2190.80
2	Chemical Cost	274.75	15.02	5.29	17.00	8.38	320.44
	Sub Total (A)	**409.05**	**410.72**	**542.16**	**615.52**	**533.79**	**2511.24**
B	**Payable through Department**						
1	Electrical Energy charges	11123.63	168.66	223.54	2324.06	1114.45	14954.34
2	Renewal charges for factory license, explosives and TNPCB	8.52					8.52
3	Royalty Charges to be paid to WRD for Industrial Drawal	311.80					311.80
4	Annual lease rent to be paid to Forest Department	60.00					60.00
5	Annual lease rent to be paid to Service provider for SCADA	60.00					60.00
	Sub Total (B)	**11563.95**	**168.66**	**223.54**	**2324.06**	**1114.45**	**15394.66**
	Grand Total (A)+(B)	**11973.00**	**579.38**	**765.70**	**2939.58**	**1648.24**	**17905.90**
	Amount (In Crore)	**119.73**	**5.79**	**7.66**	**29.40**	**16.48**	**179.06**

TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD

From
Er. K.Ravikumar, M.E., M.B.A.,PGDMM.,
Executive Engineer,
TWAD Board,
Project Maintenance Division,
A.Jettihalli (Po),
Dharmapuri.
E. Mail: eepmddpi@gmail.com

To
The Superintending Engineer,
SIPCOT Limited,
19A, Rukmani Lakshmipathy Road,
Egmore,
Chennai-8.

Letter No.260523/F. SIPCOT/DO/PMD/Dpi/2023/Dt.26.05.2023.

Sir,

Sub: Hogenakkal Water Supply & Fluorosis Mitigation Project – Package –II – Providing Water Supply to SIPCOT Industrial Park at Dharmapuri near Athagapadi Village for immediate requirement of 2.00 MLD of water from existing Hogenakkal Water Supply & Fluorosis Mitigation Project – Request for concurrence for remitting DPR amount and other Deposit – regarding.

Ref: 1. Online application through TWAD EoDB web site (TWAD20220076 Dt:25.10.2022)

2. BP Ms. No:88 dt 08.11.2017

3. BP Ms. No:25 dt 05.03.2019

4.Project Officer, SIPCOT Industrial Park, Dharmapuri Lr.No:SIPD/ Hog.CWSS/22 DT 05.05.2023

****

I wish to inform that, the Detailed Project Report for providing immediate requirement of 2.00 MLD of water to SIPCOT Industrial Park at Dharmapuri near Athagapadi Village from the MBR at Madam under Hogenakkal WS & FM Project has been prepared by utilizing 250mm & 200mm Ductile Iron Pipe, for an amount of **Rs 2421.84 Lakhs** as per the request in the reference 1st cited.

As per BP Ms No 88, dated 08.11.2017, the water tariff fixed for Government Industries and Organization was Rs.80.00 per Kilo litres for who have not paid proportionate cost of Scheme. Also, as per BP Ms No 25, dated 05.03.2019 cited, the following procedure has to be adopted for providing bulk water supply connection to any beneficiaries.

- If the Infrastructure works is to be carried out by TWAD Board, the beneficiary should pay the full installation cost in one lump sum immediately on approval of new water supply connection.
- The caution deposit amount which is equivalent to 3 months water charges
- The advance water charges amount which is equivalent to 3 months water charges

Based on the above BPs cited, it is requested to send your consent letter for the following

1) Remitting the DPR cost of Rs. 2421.84 Lakhs before taking up the work,
2) Caution deposit,
3) Advance water charges for 3 months
4) Utilization of 250mm & 200mm Ductile Iron Pipe

The above consent letter is urgently needed by our Head office for DPR sanction.

Hence I request to send the consent letter to this office early.

26/5/23

Executive Engineer, TWAD
Project Maintenance Division,
Dharmapuri

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

TC-12310

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TEST REPORT

ULR : TC1231025000016702F
Report No. : HECS/AP/048/310325
Sample ID No : 310325175
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Project Site
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	11.81	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	24.22	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	13.25	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	80.36	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	29.52	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	12.37	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
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TEST REPORT

Report No. : **HECS/AP/048/310325/N**
Sample ID No : **310325175**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Atmospheric Pollution**
Sample Name : **Ambient Air**
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Project Site**
Environmental Condition : **Temperature (°C) : 30.0 | Humidity (%) : 54.0**
Sampling Method & Plan : **IS 5182 Part 5 & Part 14**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **05/04/2025**
Report Date : **05/04/2025**
Sample Qty : 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

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

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TEST REPORT

ULR : TC1231025000016703F
Report No. : HECS/AP/049/310325
Sample ID No : 310325176
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Chavulahalli
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ. 0.1)	IS . 5182 Part 12. 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	10.22	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	26.62	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	14.34	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	79.15	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	34.73	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	14.01	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

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TEST REPORT

Report No. : **HECS/AP/049/310325/N**
Sample ID No : **310325176**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Atmospheric Pollution**
Sample Name : **Ambient Air**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Chavulahalli**
Environmental Condition : **Temperature (°C) : 29.0 | Humidity (%) : 55.0**
Sampling Method & Plan : **IS 5182 Part 5 & Part 14**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **05/04/2025**
Report Date : **05/04/2025**
Sample Qty : **NA**

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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TEST REPORT

ULR : TC1231025000016704F
Report No. : HECS/AP/050/310325
Sample ID No : 310325177
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Tadangam
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	9.19	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	24.28	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	11.17	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	88.24	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	33.45	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	13.75	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

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TEST REPORT

Report No. : **HECS/AP/050/310325/N**
Sample ID No : **310325177**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**
Address of the Client : **Dharmapuri**

Group : **Atmospheric Pollution**
Sample Name : **Ambient Air**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Tadangam**
Environmental Condition : **Temperature (°C) : 30.0 | Humidity (%) : 54.0**
Sampling Method & Plan : **IS 5182 Part 5 & Part 14**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **05/04/2025**
Report Date : **05/04/2025**
Sample Qty : **NA**

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

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TEST REPORT

ULR : TC1231025000016705F
Report No. : HECS/AP/051/310325
Sample ID No : 310325178
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Adiyamankottai
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS . 5182 Part 12. 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	9.09	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	14.22	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	12.94	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	94.83	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	27.56	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	8.78	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

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TEST REPORT

Report No. : **HECS/AP/051/310325/N**
Sample ID No : **310325178**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Atmospheric Pollution**
Sample Name : **Ambient Air**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Adiyamankottai**
Environmental Condition : **Temperature (°C) : 28.0 | Humidity (%) : 55.0**
Sampling Method & Plan : **IS 5182 Part 5 & Part 14**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **05/04/2025**
Report Date : **05/04/2025**
Sample Qty : **NA**

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

Hubert Enviro Care Systems (P) Ltd.
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TEST REPORT

ULR : TC1231025000016706F
Report No. : HECS/AP/052/310325
Sample ID No : 310325179
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Nagarkudal
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	BLQ(LOQ 5)	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	16.42	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	BLQ(LOQ 10)	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	77.34	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	27.01	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	6.78	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report

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TEST REPORT

Name of the Client	: M/s. Sipcot.,	Report No.	: HECS/AP/052/310325/N
Address of the Client	: Dharmapuri	Sample ID No	: 310325179
		Sampling Date	: 30/03/2025
Group	: Atmospheric Pollution	Received Date	: 31/03/2025
Sample Name	: Ambient Air	Commenced Date	: 31/03/2025
Sample Mark	: NA	Completed On	: 05/04/2025
Sample Reference	: NA	Report Date	: 05/04/2025
Sample Drawn By	: M/s.Hubert Enviro care Systems (P) Ltd.	Sample Qty	: NA
Sample Location	: Nagarkudal		
Environmental Condition	: Temperature (°C) : 29.0 | Humidity (%) : 55.0		
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

ULR : TC1231025000017077F
Report No. : HECSL/WT/087/310325
Sample ID No : 310325181
Sampling Date : 30/03/2025

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Water**
Sample Name : **Ground Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Project Site**
Environmental Condition : **Temperature (°C) : 21.0 | Humidity (%) : 45.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Bi carbonate	mg/l	488.0	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	88.18	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	207.85	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
6	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
7	Electrical Conductivity at 25°C	µS/cm	1675.0	IS 3025 Part-14: 2013	NA	NA
8	Fluoride as F	mg/l	0.43	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
9	Iron as Fe	mg/l	0.071	IS 3025 (Part 53): 2003	1.0	No relaxation
10	Magnesium as Mg	mg/l	63.18	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
11	Nitrate as NO3	mg/l	3.55	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
12	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
13	pH at 25°C	-	7.91	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation

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TEST REPORT

ULR : TC1231025000017077F
Report No. : HECSL/WT/087/310325
Sample ID No : 310325181
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Project Site
Environmental Condition : Temperature (°C) : 21.0 | Humidity (%) : 45.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
14	Potassium as K	mg/l	14.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	160.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
16	Sulphate as SO4	mg/l	164.75	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	960.0	IS 3025 (Part 16): 1984	500	2000
18	Total Suspended Solids	mg/l	5.0	IS 3025 (Part 17): 1984	NA	NA
19	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO3	mg/l	480.0	IS 3025 (Part 21): 2009	200	600
21	Turbidity, NTU	NTU	2.2	IS 3025 (Part 10): 1984	1	5
22	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
23	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
24	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
25	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation

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TEST REPORT

ULR : TC1231025000017077F
Report No. : HECSL/WT/087/310325
Sample ID No : 310325181
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Project Site
Environmental Condition : Temperature (°C) : 21.0 | Humidity (%) : 45.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date: 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
27	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
28	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
29	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15
30	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
31	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
32	Percent Sodium	%	40.95	HECS /WT/SOP/002:: 2019	NA	NA
33	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
34	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	0.2	1.0
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
36	Sodium Adsorption Ratio(SAR)	Square root of (millimole/ litre)	3.2	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.4	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

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TEST REPORT

ULR : TC1231025000017077F
Report No. : HECSL/WT/087/310325
Sample ID No : 310325181
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Project Site
Environmental Condition : Temperature (°C) : 21.0 | Humidity (%) : 45.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
39	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
40	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022	NA	NA
41	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
42	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
43	Total alkalinity as CaCO3	mg/l	400.0	IS 3025 (Part 23): 1986	200	600

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

End of Report

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TEST REPORT

Name of the Client : **M/s. Sipcot.,**
Address of the Client : **Dharmapuri**

Group : **Water**
Sample Name : **Ground Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Project Site**
Environmental Condition : **Temperature (°C) : 21.0 | Humidity (%) : 45.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Report No. : **HECSL/WT/087/310325/N**
Sample ID No : **310325181**
Sampling Date : **30/03/2025**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **2 Litres**

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

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

End of Report

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TEST REPORT

ULR : TC1231025000017078F
Report No. : HECSL/WT/088/310325
Sample ID No : 310325182
Sampling Date : 30/03/2025

Name of the Client : M/s. Sipcot.,
Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Chavulahalli
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Bi carbonate	mg/l	390.4	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	68.14	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	79.18	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
6	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
7	Electrical Conductivity at 25°C	µS/cm	1068.0	IS 3025 Part-14: 2013	NA	NA
8	Fluoride as F	mg/l	0.37	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
9	Iron as Fe	mg/l	0.035	IS 3025 (Part 53): 2003	1.0	No relaxation
10	Magnesium as Mg	mg/l	41.31	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
11	Nitrate as NO3	mg/l	5.87	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
12	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
13	pH at 25°C	-	8.03	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation

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TEST REPORT

ULR : TC123102500001707 8F
Report No. : HECSL/WT/088/310325
Sample ID No : 310325182
Sampling Date : 30/03/2025

Name of the Client : M/s. Sipcot.,
Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Chavulahalli
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
14	Potassium as K	mg/l	8.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	70.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
16	Sulphate as SO4	mg/l	78.71	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	561.0	IS 3025 (Part 16): 1984	500	2000
18	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
19	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO3	mg/l	340.0	IS 3025 (Part 21): 2009	200	600
21	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
22	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
23	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
24	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
25	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation

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TEST REPORT

ULR : TC1231025000017078F
Report No. : HECSL/WT/088/310325
Sample ID No : 310325182
Sampling Date : 30/03/2025

Name of the Client : M/s. Sipcot.,
Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Chavulahalli
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date: 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
27	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
28	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
29	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15
30	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
31	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
32	Percent Sodium	%	30.14	HECS /WT/SOP/002:: 2019	NA	NA
33	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
34	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	0.2	1.0
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
36	Sodium Adsorption Ratio(SAR)	Square root of (millimole/ litre)	1.6	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.6	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

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TEST REPORT

ULR : TC1231025000017078F
Report No. : HECSL/WT/088/310325
Sample ID No : 310325182
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Chavulahalli
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date: 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
39	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
40	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022	NA	NA
41	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
42	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
43	Total alkalinity as CaCO3	mg/l	320.0	IS 3025 (Part 23): 1986	200	600

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

End of Report

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TEST REPORT

Report No. : **HECSL/WT/088/310325/N**
Sample ID No : **310325182**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Water**
Sample Name : **Ground Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Chavulahalli**
Environmental Condition : **Temperature (°C) : 22.0 | Humidity (%) : 46.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **2 Litres**

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

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

End of Report

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TEST REPORT

ULR : TC1231025000017079F
Report No. : HECSL/WT/089/310325
Sample ID No : 310325183
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Tadangam
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Bi carbonate	mg/l	463.6	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	60.12	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	84.12	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
6	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
7	Electrical Conductivity at 25°C	µS/cm	1171.0	IS 3025 Part-14: 2013	NA	NA
8	Fluoride as F	mg/l	0.39	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
9	Iron as Fe	mg/l	0.038	IS 3025 (Part 53): 2003	1.0	No relaxation
10	Magnesium as Mg	mg/l	36.45	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
11	Nitrate as NO3	mg/l	19.87	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
12	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
13	pH at 25°C	-	7.18	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation

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TEST REPORT

ULR : TC1231025000017079F
Report No. : HECSL/WT/089/310325
Sample ID No : 310325183
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Tadangam
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
14	Potassium as K	mg/l	11.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	124.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
16	Sulphate as SO4	mg/l	79.8	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	661.0	IS 3025 (Part 16): 1984	500	2000
18	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
19	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO3	mg/l	300.0	IS 3025 (Part 21): 2009	200	600
21	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
22	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
23	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
24	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
25	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation

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TEST REPORT

ULR : TC1231025000017079F
Report No. : HECSL/WT/089/310325
Sample ID No : 310325183
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Tadangam
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date: 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
27	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
28	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
29	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15
30	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ.0.001)	IS 3025 Part 43 Sec 1. 2022	0.001	0.002
31	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
32	Percent Sodium	%	46.01	HECS /WT/SOP/002:: 2019	NA	NA
33	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
34	Residual Sodium Carbonate	meq/l	1.6	IS 11624: 2019	0.2	1.0
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
36	Sodium Adsorption Ratio(SAR)	Square root of (millimole /litre)	3.1	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

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TEST REPORT

ULR : TC231025000017079F
Report No. : HECSL/WT/089/310325
Sample ID No : 310325183
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Ground Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Tadangam
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
39	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
40	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022	NA	NA
41	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
42	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
43	Total alkalinity as CaCO3	mg/l	380.0	IS 3025 (Part 23): 1986	200	600

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

End of Report

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TEST REPORT

Report No. : **HECSL/WT/089/310325/N**
Sample ID No : **310325183**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Water**
Sample Name : **Ground Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Tadangam**
Environmental Condition : **Temperature (°C) : 22.0 | Humidity (%) : 46.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **2 Litres**

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

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

End of Report

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TEST REPORT

ULR : TC1231025000017080F
Report No. : HECSL/WT/090/310325
Sample ID No : 310325184
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Adiyamankottai Lake
Environmental Condition : Temperature (°C) : 21.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Total alkalinity as CaCO3	mg/l	160.0	IS 3025 Part 23: 1986	NA
2	Bi carbonate	mg/l	195.2	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	4.0	IS 3025 Part 44: 1993	30
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca	mg/l	16.03	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	NA
6	Chemical Oxygen Demand (COD)	mg/l	32.0	IS 3025 Part 58: 2006	250
7	Chloride as Cl	mg/l	32.16	IS 3025 Part 32: 1988 (Argentometric Method)	NA
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	NA
9	Dissolved oxygen	mg/l	5.8	IS 3025 Part 38: 1989	NA
10	Electrical Conductivity at 25°C	µS/cm	512.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.29	APHA 23rd edition Method 4500 F -B,D: 2017	2.0
12	Iron as Fe	mg/l	0.498	IS 3025 Part 53: 2003	3.0
13	Nitrate as NO3	mg/l	13.52	APHA 23rd edition Method 4500 NO3B: 2017	NA

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TEST REPORT

ULR : TC123102500001708OF
Report No. : HECSL/WT/090/310325
Sample ID No : 310325184
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Adiyamankottai Lake
Environmental Condition : Temperature (°C) : 21.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
14	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	2.0
15	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
16	Phosphate as PO4	mg/l	0.112	APHA 23rd edition Method 4500-P B,D: 2017	NA
17	pH at 25°C	-	7.57	IS 3025 Part 11: 2022 (Electrometric Method)	5.5 - 9.0
18	Total dissolved solids	mg/l	267.0	IS 3025 Part 16: 1984	NA
19	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
20	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.2
21	Magnesium as Mg	mg/l	9.72	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	NA
22	Potassium as K	mg/l	5.0	IS 3025 Part 45: 1993	NA
23	Sodium as Na	mg/l	64.0	IS 3025 Part 45: 1983	NA
24	Sulphate as SO4	mg/l	16.5	IS 3025 Part 24 Sec 1: 2022	NA
25	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	1.0
26	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	NA

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TEST REPORT

ULR : TC1231025000017080F
Report No. : HECSL/WT/090/310325
Sample ID No : 310325184
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Adiyamankottai Lake
Environmental Condition : Temperature (°C) : 21.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
27	Percent Sodium	%	61.53	HECSG /WT/SOP/002 Issue No:01,Issue date 18.12: 2021	NA
28	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA
29	Residual Sodium Carbonate	mg/l	1.59	IS 11624: 2019	NA
30	Ammonia as NH3	mg/l	0.48	IS 3025 Part 34 Sec 2: 2021	50
31	Sodium Adsorption Ratio(SAR)	Square root of (millimole/ litre)	3.10	IS 11624: 2019	NA
32	Total Hardness as CaCO3	mg/l	80.0	IS 3025 Part 21: 2009	NA
33	Total Phosphorous as P	mg/l	0.034	IS 3025 Part 31 Sec 1: 2022	NA
34	Total Suspended Solids	mg/l	45.0	IS 3025 Part 17: 1984	100
35	Turbidity	NTU	19.4	IS 3025 Part 10: 1984	NA
36	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.2
37	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	2.0
38	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	2.0
39	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0

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TEST REPORT

ULR : TC123102500001708OF
Report No. : HECSL/WT/090/310325
Sample ID No : 310325184
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Adiyamankottai Lake
Environmental Condition : Temperature (°C) : 21.0 | Humidity (%) : 46.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
40	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
41	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.01
42	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5.0

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

End of Report

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

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TEST REPORT

Report No. : **HECSL/WT/090/310325/N**
Sample ID No : **310325184**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Water**
Sample Name : **Surface Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Adiyamankottai Lake**
Environmental Condition : **Temperature (°C) : 21.0 | Humidity (%) : 46.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **2 Litres**

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

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

End of Report

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TEST REPORT

ULR : TC1231025000017081F
Report No. : HECSL/WT/091/310325
Sample ID No : 310325185
Sampling Date : 31/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Periyaar
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Total alkalinity as CaCO3	mg/l	210.0	IS 3025 Part 23: 1986	NA
2	Bi carbonate	mg/l	256.2	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	30
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca	mg/l	36.07	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	NA
6	Chemical Oxygen Demand (COD)	mg/l	20.0	IS 3025 Part 58: 2006	250
7	Chloride as Cl	mg/l	138.56	IS 3025 Part 32: 1988 (Argentometric Method)	NA
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	NA
9	Dissolved oxygen	mg/l	5.9	IS 3025 Part 38: 1989	NA
10	Electrical Conductivity at 25°C	µS/cm	912.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.41	APHA 23rd edition Method 4500 F -B,D: 2017	2.0
12	Iron as Fe	mg/l	0.052	IS 3025 Part 53: 2003	3.0
13	Nitrate as NO3	mg/l	2.57	APHA 23rd edition Method 4500 NO3B: 2017	NA

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TEST REPORT

ULR : TC1231025000017081F
Report No. : HECSL/WT/091/310325
Sample ID No : 310325185
Sampling Date : 31/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Periyaar
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
14	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	2.0
15	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
16	Phosphate as PO4	mg/l	0.179	APHA 23rd edition Method 4500-P B,D: 2017	NA
17	pH at 25°C	-	7.35	IS 3025 Part 11: 2022 (Electrometric Method)	5.5 – 9.0
18	Total dissolved solids	mg/l	469.0	IS 3025 Part 16: 1984	NA
19	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
20	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.2
21	Magnesium as Mg	mg/l	14.58	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	NA
22	Potassium as K	mg/l	6.0	IS 3025 Part 45: 1993	NA
23	Sodium as Na	mg/l	70.0	IS 3025 Part 45: 1983	NA
24	Sulphate as SO4	mg/l	51.71	IS 3025 Part 24 Sec 1: 2022	NA
25	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	1.0
26	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	NA

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TEST REPORT

ULR : TC1231025000017081F
Report No. : HECSL/WT/091/310325
Sample ID No : 310325185
Sampling Date : 31/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Periyaar
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
27	Percent Sodium	%	58.80	HECSG /WT/SOP/002 Issue No:01,Issue date 18.12: 2021	NA
28	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA
29	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
30	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	50
31	Sodium Adsorption Ratio(SAR)	Square root of (millimole/ litre)	7.44	IS 11624: 2019	NA
32	Total Hardness as CaCO3	mg/l	150.0	IS 3025 Part 21: 2009	NA
33	Total Phosphorous as P	mg/l	0.055	IS 3025 Part 31 Sec 1: 2022	NA
34	Total Suspended Solids	mg/l	2.0	IS 3025 Part 17: 1984	100
35	Turbidity	NTU	0.7	IS 3025 Part 10: 1984	NA
36	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.2
37	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	2.0
38	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	2.0
39	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0

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TEST REPORT

ULR : TC1231025000017081F
Report No. : HECSL/WT/091/310325
Sample ID No : 310325185
Sampling Date : 31/03/2025

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

Address of the Client : Dharmapuri

Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Periyaar
Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
40	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
41	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.01
42	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	3.0
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5.0

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

End of Report

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TEST REPORT

Report No. : **HECSL/WT/091/310325/N**
Sample ID No : **310325185**
Sampling Date : **31/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Water**
Sample Name : **Surface Water**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Periyaar**
Environmental Condition : **Temperature (°C) : 22.0 | Humidity (%) : 45.0**
Sampling Method & Plan : **IS 17614(Part-1):2021**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **2 Litres**

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

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

End of Report

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TEST REPORT

ULR : TC1231025000017083F
Report No. : HECS/PE/032/310325
Sample ID No : 310325186
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Project Site
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	14.80	HECS-G/INS/SOP/042 Issue No.:01 issue Date:01.03.2021
3	Copper	mg/kg	15.47	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	7.30	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	38.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	42.6	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	18.6	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.40	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	72.5	IS 14767: 2000
11	Bulk Density	gm/cm3	0.99	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.30	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.53	IS 2720 (Part 22) Section I 1972

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TEST REPORT

ULR : TC1231025000017083F
Report No. : HECS/PE/032/310325
Sample ID No : 310325186
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Project Site
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	26.70	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No :01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0110	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	7.83	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	3.91	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	1.4	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	30.2	IS 14765: 2000
22	Colour	-	Brown	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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

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TEST REPORT

Report No. : **HECS/PE/032/310325/N**
Sample ID No : **310325186**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Project Site**
Environmental Condition : **Temperature (°C) : 30.0 | Humidity (%) : 55.0**
Sampling Method & Plan : **ICARDA : 2013**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **1 Kg**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	2.84	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	122.56	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	5.09	Inhouse method
4	Infiltration Rate	-	1.2	Inhouse method

Note:- mg/kg: milligram per kilogram, % - Percentage.

End of Report

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TEST REPORT

ULR : TC123102500001708 4F
Report No. : HECS/PE/033/310325
Sample ID No : 310325187
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Chavulahalli
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	13.64	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	12.38	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	6.06	HECS-G/INS/SOP/ 042 Issue No :01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	28.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	43.2	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	28.0	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.42	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	99.5	IS 14767: 2000
11	Bulk Density	gm/cm3	1.01	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.39	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.67	IS 2720 (Part 22) Section I 1972

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TEST REPORT

ULR : TC123102500001708 4F
Report No. : HECS/PE/033/310325
Sample ID No : 310325187
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Chavulahalli
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	5.82	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	21.94	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0112	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	11.69	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	7.79	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.2	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	18.8	IS 14765: 2000
22	Colour	-	Brown	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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

D.Anusuya
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Authorized Signatory

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Laboratory Services Division
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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Report No. : **HECS/PE/033/310325/N**
Sample ID No : **310325187**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Chavulahalli**
Environmental Condition : **Temperature (°C) : 28.0 | Humidity (%) : 54.0**
Sampling Method & Plan : **ICARDA : 2013**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **1 Kg**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	3.98	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	121.23	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	3.50	Inhouse method
4	Infiltration Rate	-	0.8	Inhouse method

Note:- mg/kg: milligram per kilogram, % - Percentage.

End of Report

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TEST REPORT

ULR : TC123102500001709OF
Report No. : HECS/PE/034/310325
Sample ID No : 310325188
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Tadangam
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	13.36	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	10.78	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	6.66	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Silt loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	24.4	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	50.8	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	24.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	6.40	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	68.5	IS 14767: 2000
11	Bulk Density	gm/cm3	1.02	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.24	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.42	IS 2720 (Part 22) Section I 1972

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TEST REPORT

ULR : TC123102500001709OF
Report No. : HECS/PE/034/310325
Sample ID No : 310325188
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Tadangam
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	25.38	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No :01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0122	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	11.35	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	3.78	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	1.8	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	34.6	IS 14765: 2000
22	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

D.Anusuya
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TEST REPORT

Report No. : **HECS/PE/034/310325/N**
Sample ID No : **310325188**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Tadangam**
Environmental Condition : **Temperature (°C) : 29.0 | Humidity (%) : 56.0**
Sampling Method & Plan : **ICARDA : 2013**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **1 Kg**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	3.80	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	63.70	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	7.85	Inhouse method
4	Infiltration Rate	-	0.8	Inhouse method

Note:- mg/kg: milligram per kilogram, % - Percentage.

End of Report

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TEST REPORT

ULR : TC1231025000017091F
Report No. : HECS/PE/035/310325
Sample ID No : 310325189
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Adiyamankottai
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	14.34	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	11.02	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	5.50	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	31.6	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	45.6	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	22.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	8.09	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	212.0	IS 14767: 2000
11	Bulk Density	gm/cm3	0.96	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.55	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.96	IS 2720 (Part 22) Section I 1972

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TEST REPORT

ULR : TC1231025000017091F
Report No. : HECS/PE/035/310325
Sample ID No : 310325189
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Adiyamankottai
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	9.70	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	25.38	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0137	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	7.70	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	7.70	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	1.9	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	29.8	IS 14765: 2000
22	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

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

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TEST REPORT

Report No : **HECS/PE/035/310325/N**
Sample ID No : **310325189**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Adiyamankottai**
Environmental Condition : **Temperature (°C) : 30.0 | Humidity (%) : 54.0**
Sampling Method & Plan : **ICARDA : 2013**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **1 Kg**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	5.46	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	126.25	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	2.21	Inhouse method
4	Infiltration Rate	-	0.5	Inhouse method

Note:- mg/kg: milligram per kilogram, % - Percentage.

End of Report

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

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TEST REPORT

ULR : TC1231025000017092F
Report No. : HECS/PE/036/310325
Sample ID No : 310325190
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Nagarkudal
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	13.02	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	11.19	HECS-G/INS/SOP/ 042 Issue No :01 Issue Date:01.03.2021
4	Zinc	mg/kg	7.51	HECS-G/INS/SOP/ 042 Issue No.:01 issue Date:01.03.2021
5	Soil Texture	-	Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	32.4	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	40.8	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	26.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.90	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	322.0	IS 14767: 2000
11	Bulk Density	gm/cm3	1.03	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.77	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	1.33	IS 2720 (Part 22) Section I 1972

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TEST REPORT

ULR : TC1231025000017092F
Report No. : HECS/PE/036/310325
Sample ID No : 310325190
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : Nagarkudal
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample Qty : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	7.16	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	31.21	FAO of United Nations, Rome Chapter - III 2008
16	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
17	Total Nitrogen as N	%	0.0173	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	11.93	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	7.95	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.3	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	31.2	IS 14765: 2000
22	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020

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

End of Report

D.Anusuya
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TEST REPORT

Report No. : **HECS/PE/036/310325/N**
Sample ID No : **310325190**
Sampling Date : **30/03/2025**

Name of the Client : **M/s. Sipcot.,**

Address of the Client : **Dharmapuri**

Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems (P) Ltd.**
Sample Location : **Nagarkudal**
Environmental Condition : **Temperature (°C) : 29.0 | Humidity (%) : 55.0**
Sampling Method & Plan : **ICARDA : 2013**

Received Date : **31/03/2025**
Commenced Date : **31/03/2025**
Completed On : **07/04/2025**
Report Date : **07/04/2025**
Sample Qty : **1 Kg**

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	4.58	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	119.71	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	4.17	Inhouse method
4	Infiltration Rate	-	0.6	Inhouse method

Note:- mg/kg: milligram per kilogram, % - Percentage.

End of Report

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

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TEST REPORT

ULR : TC1231025000016707F
Report No. : HECS/AP/053/310325
Sample ID No : 310325180
Sampling Date : 30/03/2025

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

Address of the Client : Dharmapuri

Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : Ambient Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 56.0
Sampling Method & Plan : IS 9989:1981

Received Date : 31/03/2025
Commenced Date : 31/03/2025
Completed On : 04/04/2025
Report Date : 05/04/2025
Sample Qty : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	53.1	43.1
2	Chavulahalli	52.9	40.8
3	Tadangam	51.0	42.4
4	Adiyamankottai	53.8	43.5
5	Nagarkudal	53.5	43.0

Noise Standards - CPCB:

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

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

End of Report

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

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SIPCOT – DHARMAPURI

MONITORING PHOTOGRAPHS

AMBIENT AIR QUALITY MONITORING PHOTOS:

NEAR PROJECT AREA

Chavulahalli

Tadangam

Adiyamankottai

Nagarkudal


GROUND WATER SAMPLING PHOTOS

Project site	Chavulahalli
	

Tadangam


NOISE SAMPLING PHOTOGRAPH

NEAR PROJECT AREA	Chavulahalli
	
Tadangam	**Adiyamankottai**
	

Nagarkudal


SOIL MONTORING PHOTOGRAPH

NEAR PROJECT AREA	Chavulahalli
	
Tadangam	**Adiyamankottai**
	

Nagarkudal


SURFACE WATER SAMPLING PHOTOGRAPH

Adiyamankottai Lake


Periyaar


STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED

ENVIRONMENT POLICY

PREAMBLE

SIPCOT has established 21 Industrial Complexes / Parks / Growth Centres besides 7 SEZs within these Industrial Parks. SIPCOT is also in the process of establishing eight new Industrial Parks besides other ongoing Land Acquisition schemes.

As per the EIA notification, 2006 of MoEF&CC, SIPCOT obtained Environmental Clearance for 8 Industrial Complexes / Parks; also, SIPCOT is in the process of obtaining Environmental Clearance for the upcoming Industrial Complexes/ Parks/ Growth Centers. As per the condition stipulated in the Environmental Clearance, the Company shall have a well laid down Environment Policy approved by the Board of Directors.

1. OBJECTIVE OF ENVIRONMENT POLICY

1.1 The key objective of the SIPCOT Environment Policy is to attract Industrial Investment, Employment Generation, and Creation of Industrial Infrastructure across Tamil Nadu by ensuring a balance between development and environment.

1.2 The present policy is formulated with the following objectives:

1.2.1 To continuously improve the environmental status of the Industrial Complexes / Parks / Growth Centers / SEZs through the implementation of sustainable environmental practices.

1.2.2 To obtain all statutory clearances and approvals and to follow the conditions stipulated by the regulatory authorities.

1.2.3 To improve social infrastructure and environmental conditions in and around the project site by earmarking separate fund for carrying out the implementation works.

1.2.4 To form an exclusive Environmental Management Cell to implement and review the progress of environmental safeguard measures.

1.2.5 To encourage allottee units to adopt efficient and effective environmental management and monitoring systems.

2. STRATEGIES AND ACTION PLANS

2.1 Regulatory Approach:

2.1.1 In accordance with the EIA Notification, 2006, SIPCOT has obtained prior Environmental Clearance for the Industrial Complexes / Parks established after the year 2006.

2.1.2 For the proposed Industrial Complexes / Parks / Growth Centres / SEZ, SIPCOT shall obtain Environmental Clearance / CRZ Clearance as per EIA / CRZ notification. All necessary approvals/clearance shall be obtained from the competent authority as stipulated in Environmental Clearance conditions, and the same shall be complied as per the standards and norms stipulated by MoEF&CC/SEIAA.

2.1.3 As per the norms and conditions of EC, SIPCOT shall obtain Consent to Establish (CTE) / Consent to Operate (CTO) for the Industrial Complexes/ Parks/ Growth Centers from Tamil Nadu Pollution Control Board.

2.2 Compliance to Regulatory Conditions:

2.2.1 SIPCOT shall comply with the following conditions stipulated in the Environmental Clearance:

a) Submission of Half Yearly compliance report including the results of monitoring data to the SEIAA / MoEF / CPCB Zonal office / TNPCB in Hard and Soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.

b) Environmental Statement for each financial year ending 31st March in Form – V as mandated by TNPCB shall be submitted as prescribed under Environment (Protection) Rules, 1986 and amended subsequently. The same shall be made available in the website of SIPCOT along with the status of compliance of EC conditions and shall also be sent to the respective regulatory authority.

c) Monitoring ambient air, water, and noise quality during the operation phase, including criteria pollutant levels or critical sectoral parameters, indicated if any, for the project.

2.3 Corporate Environmental Responsibility (CER):

2.3.1 As per the Office Memorandum dated 1st May 2018 from MoEF&CC, GOI (F.No.22-65/2017-IA.III), the fund allocation for the Corporate Environment Responsibility (CER) shall be in addition to the cost envisaged for the implementation of the EIA/EMP which includes the measures for the pollution control, environmental protection measures including the NPV and Compensatory Afforestation, required, if any, and any other activities, to be derived as part of the EIA process subject to the maximum percentage as prescribed below for different cases:

Table - 1: CER Cost for Implementation of Projects

Sl.No.	Capital Investment / Additional Capital Investment (in Rs.)	Greenfield Project - % of Capital Investment	Brownfield Project - % of Additional Capital Investment
I	II	III	IV
1.	<= 100 Crores	2.0%	1.0%
2.	> 100 Crores to <= 500 Crores	1.5%	0.75%
3.	> 500 Crores to <= 1000 Crores	1.0%	0.50%
	> 1000 Crores to <= 10000 Crores	0.5%	0.25%
4.	> 10000 Crores	0.25%	0.125%

2.3.2 Greenfield projects are the projects which are not following a prior work i.e., the projects on the unused lands where there is no need to remodel or demolish an existing structure. Brownfield projects are the projects which are modified or upgraded.

2.3.3 The activities proposed under CER shall be worked out based on the issues raised during the public hearing, social need assessment, R&R plan, Environmental Management Plan, etc.

2.3.4 Some of the activities which can be carried out in CER are infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase the yield of crop and fodder, rainwater harvesting, soil moisture conservation works, avenue plantation, plantation in community areas, etc.

2.3.5 A separate fund may be earmarked for implementing Environmental Protection Measures, in respect of the projects for which EC has been obtained after the CER notification dated 01.05.2018, the cost of the project shall include CER provisions for the specified percentage depending upon the investment amount. The fund shall be utilized for the purpose of allocation of Green initiatives and CER activities.

2.3.6 The entire activities proposed under the CER shall be treated as SIPCOT Social & Environmental Initiative and shall be monitored periodically. The monitoring report shall be submitted to the regional office as a part of the half-yearly compliance report.

2.4 Environmental Management Cell:

2.4.1 As per the Condition stipulated in the Environmental Clearance; the Company shall have an Environmental Management Cell consists of 7 team members to implement the Environmental Management Plan.

2.4.2 SIPCOT Environmental Management Cell may 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.

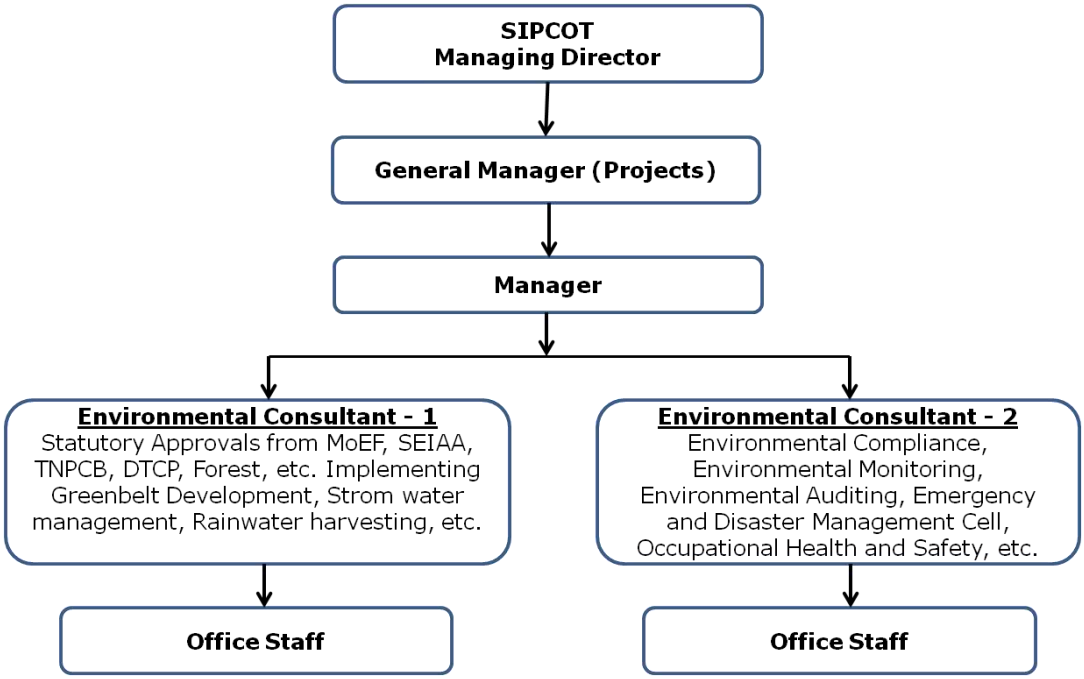

Figure – 1: Environmental Management Cell

2.4.3 The Environmental Management Cell shall obtain all applicable statutory clearances and approvals as mandated by the regulatory authorities and maintain the Industrial Complexes/ Parks/ Growth Centers in compliance with all applicable rules and regulations. The team shall address various queries received from statutory authorities on the environmental front related to SIPCOT projects.

2.5 Other Environmental Safeguard Action Plans:

2.5.1 SIPCOT land-use policy would accord priority to the protection and preservation of vulnerable ecosystems, including protected forests, bio-reserves, wetlands, coastal ecosystems.

2.5.2 Appropriate locating of industries (depending on the category of industry) and environmental safeguards will be built into the planning and management of these industrial corridors and nodes.

2.5.3 Encouraging the industrial units to install Continuous and Emission Monitoring Systems in collaboration with TNPCB.

2.5.4 SIPCOT shall develop greenery around its boundary wall of the acquired land, maintain and recommend the individual units to allocate 33% of green area as per EIA notification.

2.5.5 SIPCOT shall stipulate specific conditions in the Allotment Order / Lease Deed to comply with the Environmental Clearance conditions by a suitable undertaking from the allottees.

3. ENVIRONMENTAL INITIATIVES BY SIPCOT

3.1 SIPCOT insists the industrial units to adopt Zero Liquid Discharge (ZLD) concept.

3.2 Rainwater harvesting systems be implemented in SIPCOT industrial parks to further increase groundwater table.

3.3 SIPCOT initiate a mission-mode program to clean and rejuvenate the existing water bodies, within and around (1 km radius) SIPCOT Industrial Areas.

3.4 Revamping of damaged roads, drainages, and storage structures in SIPCOT Industrial Complexes/ Parks/ Growth Centers.

3.5 SIPCOT initiate the process of closing the unauthorized bore wells located within the industrial area in view of limiting the groundwater extraction and mandating the industrial units to use treated water.

4. ENVIRONMENTAL AWARENESS, AWARDS AND TRAINING PROGRAMS

4.1 SIPCOT plans to conduct environmental awareness and training programmes for the allottee units along with TNPCB, Integrated Waste Management Association, and other government bodies.

4.2 SIPCOT may conduct training program for SIPCOT employees in:

a) Understanding of Environmental Laws.
b) Updating knowledge on environmental rules and its subsequent amendments.
c) Protocol for conducting environmental monitoring within the industrial units.
d) Environmental Health and Safety management system.

4.3 SIPCOT also has plans to issue Green Awards to the Industries, to encourage green initiatives and to maintain sustainability in their industrial premises.

5. ENCOURAGING INDUSTRIES TOWARDS GREEN INITIATIVES

5.1 In order to promote Green Initiatives, SIPCOT 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.

5.2 SIPCOT also encourages industries to reduce the use of one time use plastics, Styrofoam, and other plastic material during the packing and delivery of goods. SIPCOT encourages allottees to maintain the biodiversity nature of their nativity.

5.3 SIPCOT plans to gradually implement Energy Conservation measures such as the installation of LED for lighting the roads, common areas and to utilize solar energy wherever possible.

6. ENVIRONMENTAL REGULATORY UPDATING AND DOCUMENTATION

The Environmental Management Cell will review, implement, update, and comply with the Environment Policy to ensure the effective implementation of environmental safeguard measures. The team shall review the progress of regulatory compliance of SIPCOT and initiate necessary action for the compliance of the same. The team shall document the activities implemented under Corporate Environmental Responsibility through the line department of SIPCOT for periodical review and submission of the same to the regulatory authority.

7. POLICY REVIEW AND IMPLEMENTATION

7.1 The Environment Policy shall be implemented by improving the institutional arrangements and resources for the environmental improvement measures identified in the policy.

7.2 This policy has been drafted with current developments, information, and knowledge. The progress with respect to priorities, strategies, and actions addressing emerging environmental issues if any shall be submitted to the Board of SIPCOT for review periodically.

8. SUMMARY

8.1 SIPCOT shall obtain Consent to Establish (CTE) / Consent to Operate (CTO) for the Industrial Complexes/ Parks/ Growth Centers from Tamil Nadu Pollution Control Board, as per Sl. No. 2.1.3 supra.

8.2 SIPCOT shall submit Half Yearly Compliance Report along with the results of monitoring data and to submit Environmental Statement (Form-V) for each financial year ending 31st March to the respective regulatory authority and to upload the same in SIPCOT website, as per Sl. No. 2.2.1 (a) & (b) supra.

8.3 SIPCOT shall take necessary initiatives to monitor ambient air, water, and noise quality during the operation phase in respect of the Projects for which EC was obtained and the projects to be implemented in the future, as per Sl. No. 2.2.1 (c) supra.

8.4 SIPCOT shall allocate a separate fund for implementing Environmental Protection Measures, in respect of the projects for which EC has been obtained after the CER notification dated 01.05.2018, the cost of the project shall include CER provisions for the specified percentage depending upon the investment amount. The fund shall be utilized for the purpose of allocation of Green initiatives and CER activities, as per Sl. No. 2.3 supra.

8.5 SIPCOT shall approve the Environmental Management Cell consisting of 7 team members headed by SIPCOT Managing Director to enforce and implement the plan designed by the team, as per Sl. No. 2.4 supra.

8.6 SIPCOT shall develop greenery around its boundary wall of the acquired land, maintained, and recommends the individual units to allocate 33% of green area as per EIA notification, as per Sl. No. 2.5.4 supra.

8.7 SIPCOT shall conduct environmental awareness training programs for the industries and SIPCOT employees on an annual basis, as per Sl. No. 4.1 & 4.2 supra.

8.8 SIPCOT shall gradually implement Energy Conservation measures such as the installation of CFL/TFL for lighting the common area, to utilize solar energy wherever possible, as per Sl. No. 5.3 supra.

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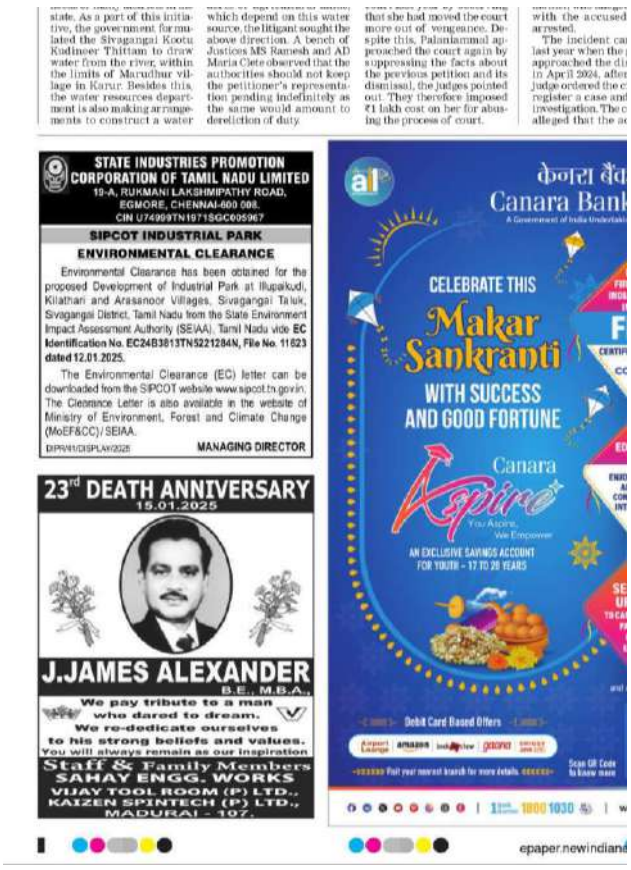
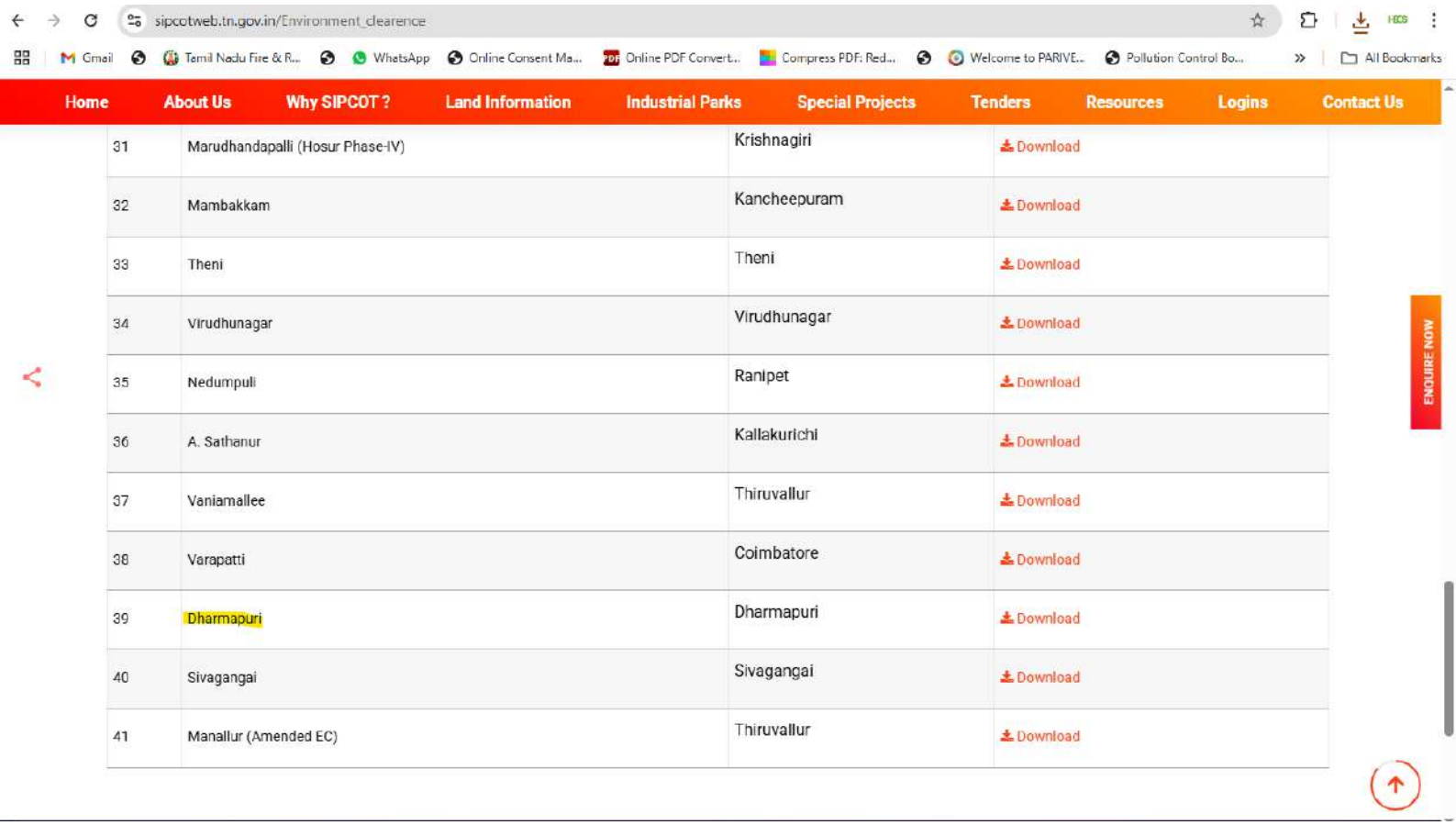


Annexure 7



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ENVIRONMENTAL MANAGEMENT CELL

1. INTRODUCTION:

1.1. For effective implementation and monitoring of environmental management system, it is necessary to have a permanent organizational set-up as Environmental Management Cell (EMC). This is done by assigning responsibility to the concerned personnel for implementation of environmental control measures.

1.2. SIPCOT Environmental Management Cell consist of 7 team members headed by SIPCOT Managing Director, General Manager (Projects), Manager and two Environmental Consultants assisted by two Office Staffs which will enforce and implement the Environmental Plan.

1.3. The Organization of Environmental Management Cell (EMC) proposed is given in **Figure - 1.**

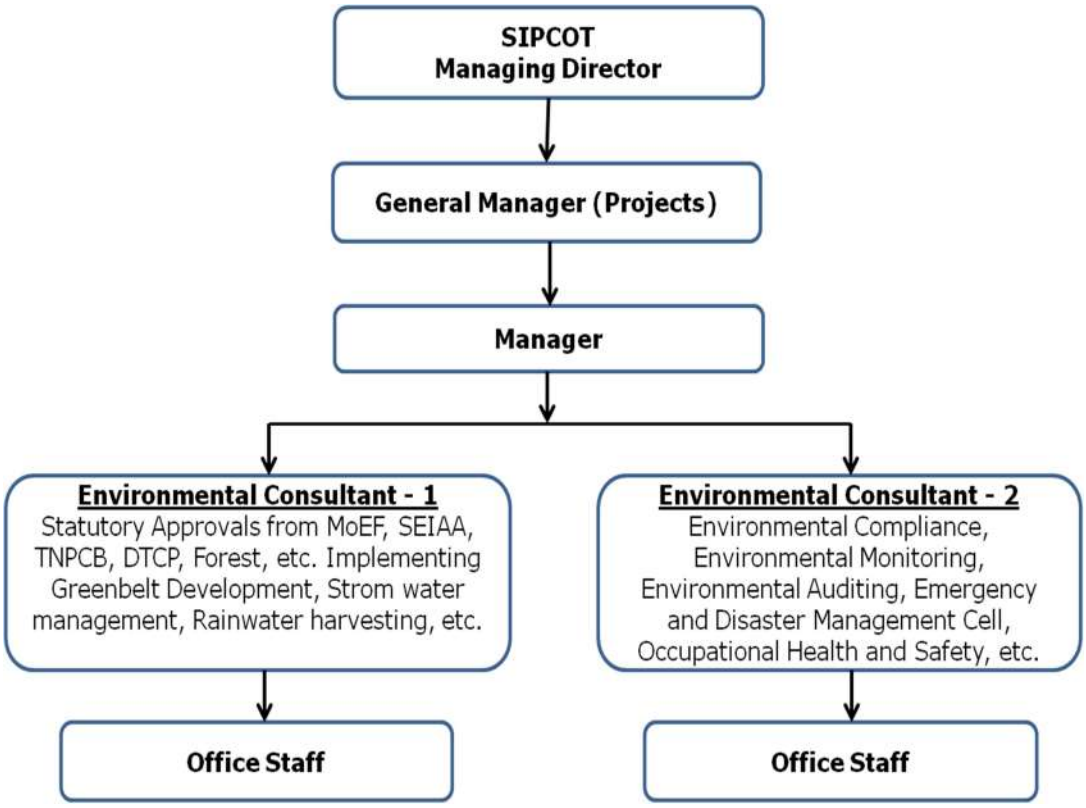

Figure - 1 Organogram for Environmental Management Cell

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

2.1. Environmental Management Cell (EMC) shall obtain all applicable statutory clearances and approvals as mandated by the regulatory authorities and maintain the Industrial Parks in compliance with all applicable rules and regulations.

2.2. Other responsibilities of the cell will include:

a) Review the progress of regulatory compliance of SIPCOT and initiate necessary action for the compliance of the same.

b) The EMC will review, implement, update, and comply with the Environment Policy to ensure the effective implementation of environmental safeguard measures.

c) Keeping the Board updated on regular basis about the activities carried out under environmental measures and suggests measures to improve environment preservation and protection.

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

e) Mandate industries to reduce the use of one time use plastics, Styrofoam, and other plastic material during the packing and delivery of goods.

Table – 1: Roles and responsibilities of EMC

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

ocmms.tn.gov.in/OCMMS/indUser/openIndustryHome#country2

Tamil Nadu
State Pollution Control Board

Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change
Government of India

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STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(A GOVT.OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL PARK,DHARMAPURI
Plot No.15,A.R Garden,Salem NH.Road,Near Court (arch),Thadangam,Nallampalli Tk
Dharmapuri – 636 705 – Email id. podp@sipcot.in

To,
உயர்திரு பஞ்சாயத்து தலைவர்,
அதகப்பாடி கிராமம்,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24
திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

தலைவர்
அதகப்பாடி ஊராட்சி
தர்மபுரி மாவட்டம்

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADULIMITED
(A GOVT.OF TAMILNADU UNDERTAKING)

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குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

PRESIDENT
Adhiyamankottai Panchayat,
Nallampalli Panchayat Union.

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADULIMITED
(A GOVT.OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL PARK,DHARMAPURI
Plot No.15,A.R Garden,Salem NH.Road,Near Court (arch),Thadangam,Nallampalli Tk
Dharmapuri – 636 705

To,
உயர்திரு பஞ்சாயத்து தலைவர்,
பாலஜங்கமனஅள்ளி கிராமம்,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

மா.கோவிந்தசாமி
தலைவர்
பாலஜங்கமனஅள்ளி ஊராட்சி

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Tk Dharmapuri – 636 705 – Email id. podp@sipcot.in

To,
உயர்திரு பஞ்சாயத்து தலைவர்,
தடங்கம் கிராமம்,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

5/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

M. [illegible]
[illegible]
தடங்கம் ஊராட்சி
நல்லம்பள்ளி ஒன்றியம், தர்மபுரி மாவட்டம்

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Tk Dharmapuri – 636 705 -- Email id. podp@sipcot.in

To,
உயர்திரு வட்டார வளர்ச்சி அலுவலர்,
நல்லம்பள்ளி,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

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Dharmapuri – 636 705 – Email id. podp@sipcot.in

To,
உயர்திரு வட்டார வளர்ச்சி அலுவலர்,
தர்மபுரி

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24
திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(A GOVT.OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL PARK,DHARMAPURI
Plot No.15,A.R Garden,Salem NH.Road,Near Court (arch),Thadangam,Nallampalli Tk
Dharmapuri – 636 705 – Email id. podp@sipcot.in

உயர்திரு கிராம நிருவாக அலுவலர்,
அதகப்பாடி கிராமம்,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

Village Administrative Officer
01, Adhagapadi-Village,
Dharmapuri.

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(A GOVT.OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL PARK,DHARMAPURI
Plot No.15,A.R Garden,Salem NH.Road,Near Court (arch),Thadangam,Nallampalli
Tk Dharmapuri – 636 705 – Email id. podp@sipcot.in

உயர்திரு கிராம நிருவாக அலுவலர்,
தடங்கம் கிராமம்,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

கிராம நிர்வாக அலுவலர்
14 தடங்கம் கிராமம்
நல்லம்பள்ளி வட்டம்
தருமபுரி மாவட்டம்

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADULIMITED

(A GOVT.OF TAMILNADU UNDERTAKING)

SIPCOT INDUSTRIAL PARK,DHARMAPURI

Plot No.15,A.R Garden,Salem NH.Road,Near Court (arch),Thadangam,Nallampalli Tk
Dharmapuri – 636 705

To,

உயர்திரு கிராம நிருவாக அலுவலர்,
பாலஜங்கமனஅள்ளி கிராமம்,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்கு காட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

Village Administrative Officer
13, Balajangamanahalli,
Nallampalli -(Tk), Dharmapuri - (Dt).

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADULIMITED
(A GOVT.OF TAMILNADU UNDERTAKING)

SIPCOT INDUSTRIAL PARK,DHARMAPURI

Plot No.15,A.R Garden,Salem NH.Road,Near Court (arch),Thadangam,Nallampalli Tk
Dharmapuri – 636 705

To,
உயர்திரு கிராம நிருவாக அலுவலர்,
அதியமான் கோட்டை கிராமம்,
தர்மபுரி மாவட்டம்.

ஐயா,

பொருள்: சிப்காட் - தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில், சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்திடம் சுற்றுச்சூழல் அனுமதி பெறப்பட்டது சமர்ப்பித்தல் தொடர்பாக.

குறிப்பு: சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி அடையாள எண் EC24A3101TN5662491N நாள் 04.11.2024.

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சுற்றுச்சூழல் வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம், அடையாள எண்: EC24A3101TN5662491N மற்றும் கோப்பு எண்: 10/34/2023-IA.III தேதி: 04.11.2024 மூலம் தர்மபுரி மாவட்டம், தர்மபுரி தாலுகா அதகப்பாடி கிராமம் மற்றும் நல்லம்பள்ளி தாலுகா அதியமான் கோட்டை, தடங்கம், பாலஜங்கமனஅள்ளி ஆகிய கிராமங்களில் 698.205 ஹெக்டேர் (1724.566 ஏக்கர்) பரப்பளவில் சிப்காட் தொழிற்பூங்கா அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் அனுமதியில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகளுக்கு இணங்க, திட்ட முன்மொழிபவர் சுற்றுச்சூழல் அனுமதியின் நகலை உள்ளாட்சி அமைப்புகள், பஞ்சாயத்து மற்றும் நகராட்சி அமைப்புகளின் தலைவர்களிடம் சமர்ப்பிக்க வேண்டும். மேலும், மேற்குறிப்பிட்ட அமைப்புகள் 30 நாட்களுக்கு சுற்றுச்சூழல் அனுமதியை பொதுமக்களுக்குகாட்சிப்படுத்த வேண்டும்.

இது சம்பந்தமாக, சுற்றுச்சூழல் அனுமதியின் நகலை உங்கள் பார்வைக்காக இணைத்துள்ளோம்.

7/11/24

திட்ட அலுவலர்,
சிப்காட் தொழிற்பூங்கா,
தர்மபுரி

இணைப்பு: மேலே குறிப்பிடப்பட்டுள்ளபடி.

இணைப்பு நகல் பெற்றுக் கொண்டேன்

12/11/2024

கிராம நிர்வாக அலுவலர்
15, அதியமான்கோட்டை
நல்லம்பள்ளி-(Tk), தருமபுரி-(Dt).