

EC/VV/HYC/June/2025

Date: 30.05.2025

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

Sir/Madam,

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

Ref: EC vide Letter No. SEIAA/TN/F-660/EC/8(b)/198/2012 dt.20.08.2013

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

Thanking you

Yours faithfully,


CONSULTANT (PROJECT MANAGEMENT)

Encl: As above.

Copy to:

1. The Director,
The Ministry of Environment and Forest & Climate Change,
Integrated Regional Office,
1st Floor, Additional Office Block for GPOA,
Shastri Bhawan, Haddows Road,
Nungambakkam, Chennai - 600 006
2. The Director, CPCB Zonal Office,
77-A, South Avenue Road,
Ambattur Industrial Estate,
Ambattur Taluk, Thiruvallur District,
Chennai - 600 058.

P.T.O.

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

3. The Chairman,
Tamil Nadu Pollution Control Board,
No-76, Mount Road, Guindy,
Chennai-600 032
4. The Project Officer
SIPCOT Industrial Park,
Vallam Vadagal.

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

“Establishment of Industrial Park”

At

**Vallam, Vadagal and Budanur Villages, Sriperumpudur Taluk,
Kancheepuram District, Tamil Nadu.**

EC OBTAINED Vide Letter No. SEIAA/TN/F-660/EC/8(b)/198/2012 dt.20.08.2013

Submitted by



**M/S. STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU
LTD**

19/A, Rukmani Lakshmi Pathy Road, Egmore, Chennai - 600008.

Prepared by



HUBERT ENVIRO CARE SYSTEMS (P) LTD CHENNAI

ENVIRONMENTAL CONSULTANT

MAY 2025

TABLE OF CONTENTS

S.No	List of Contents	Page No
1.	Project details	4
2.	Location map	5
3.	Site photograph	6
4.	Six-month environmental clearance statement	8
5.	Environmental Monitoring Details	20
	5.1 Ambient air quality monitoring	20
	5.2 Ambient noise level monitoring	20
	5.3 Soil Quality monitoring	20
	5.4 Ground water quality monitoring	20
	5.5 Surface water quality monitoring	20
6.	Conclusion	21

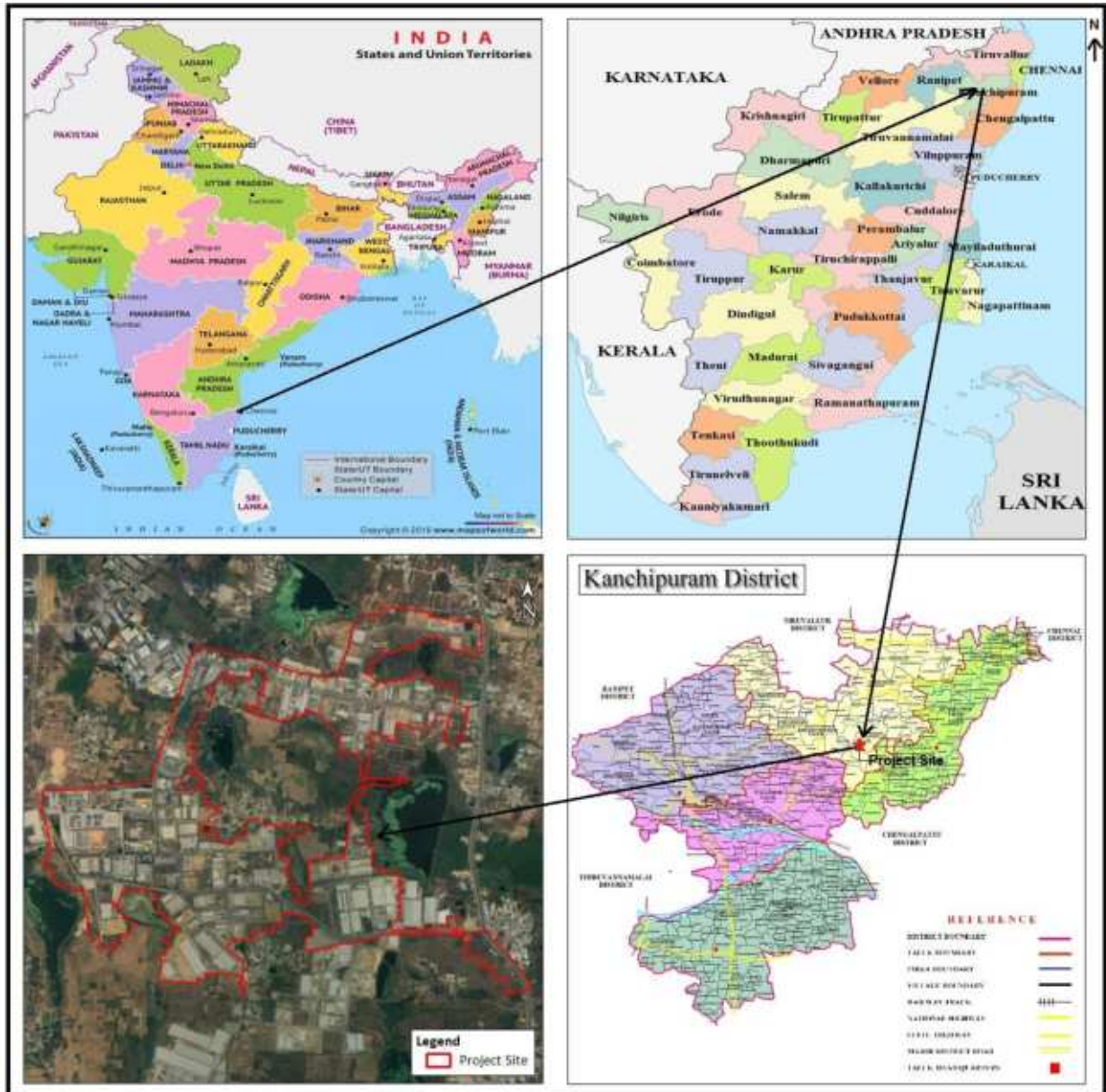
LIST OF ANNEXURE

S. No	List of Contents
Annexure 1	Copy of Environmental Clearance
Annexure 2	Consent To Establishment
Annexure 3	Environmental monitoring Reports
Annexure 4	CMWSSB Approval letter
Annexure 5	Environment Cell organogram & responsibilities
Annexure 6	Newspaper Advertisement
Annexure 7	Screenshot of compliance report uploaded in website
Annexure 8	EC copy submitted to local body
Annexure 9	Screenshot of EC copy uploaded in website
Annexure 10	Form V submission acknowledgement
Annexure 11	Environmental Monitoring Photos
Annexure 12	Storm water photographs
Annexure 13	Greenbelt photographs
Annexure 14	LED lights photograph
Annexure 15	Water bodies photographs
Annexure 16	Fire protection equipment photographs
Annexure 17	First aid room and medical camp photographs

1. PROJECT DETAILS

Name of the Project	Vallam - Vadagal Industrial Park
Name of the Proponent	M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)
Location	Vallam, Vadagal and Budanur Villages, Sriperumpudur Taluk, Kancheepuram District, Tamil nadu.
EC. No.	SEIAA/TN/F-660/EC/8(b)/198/2012 dt. 20.08.2013 (Enclosed as Annexure-1)
Area Details	464.10 ha
Water Requirement	6810 KLD Source: CMWSSB (Chembarampakkam Lake/TTRO Water)
Project Cost	Rs.240 Crores

2. LOCATION MAP



3. SITE PHOTOGRAPHS





4. SIX MONTH ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

PART A- SPECIFIC CONDITIONS

I. Construction Phase

Construction Phase	Not applicable since construction is completed.
--------------------	---

Consent to Establishment has been obtained from TNPCB and CTE copy is enclosed as

Annexure 2.

Individual Industries are mandated to obtain CTE & CTO.

PART B-OPERATION PHASE

S.NO	CONDITION	STATUS OF COMPLIANCE
1.	SIPCOT shall ensure that the water bodies shall be kept in their natural course without any change in its alignment, direction, capacity etc. during entire operation phase of the project.	Condition is being complied. We SIPCOT ensure that there will not be any modification or interference with the natural course of the water bodies during operation phase of the project. Water bodies photograph is enclosed as annexure - 15
2.	SIPCOT shall also ensure that the catchment area of the adjacent lakes shall not be disturbed or realigned or redistributed or restricted etc during the entire operation phase of the project	Condition is being complied. Catchment area of the adjacent lakes is not being disturbed or realigned or restricted. Water bodies photograph is enclosed as annexure - 15
3.	No bund shall be formed around the premises of SIPCOT which obstruct the rain water flow to the lakes located abetting the Industrial Park.	Condition is being complied. There is no formation of bund around the premises of SIPCOT.

4.	SIPCOT shall mandated all member units ensure that the treated sewage/ trade effluent collection, storage and Reuse system shall not have any access at any cost, to the water bodies. All precautionary steps shall be effectively taken and shall be continuously monitored by the Developer so as to prevent the leach ate or discharge of the treated sewage/ trade effluent into canal/ Lakes.	SIPCOT has mandated all member units to have their own ETP with Zero Liquid Discharge system and to handle their own domestic waste water as per the prescribed standards. Surface water quality monitoring report is enclosed as Annexure - 3 .
5.	The irrigational rights of the lands/land owners whose lands are not yet acquired should not be either disturbed or denied for any reasons; it should be ensured that they get not only required and eligible water supply to their patta lands, but also should have free access to their respective lands.	Condition noted.
6.	SIPCOT shall ensure that only after Rehabilitation & Resettlement i.e., after making payment to all the land owners as per law, the land can be allotted to the member industries.	Condition noted.
7.	The lands under litigation shouldn't be sold / handed over to any industry till the judgement is finalised and delivered in favour of SIPCOT by the concerned court.	Condition noted.
8.	SIPCOT shall ensure that the Green Belt Development as committed including the premises owned by the individual industries and a saving clause in the allotment/sale deed executed with every industry shall be provided.	Condition is being complied. Green belt is developed in the OSR area within the project area. Photograph of the greenbelt is enclosed as Annexure- 13

9	SIPCOT shall ensure that no CETP/CMSW TSF shall be provided for the sewage, trade effluent, municipal solid waste generated from the individual industries except the facilities for the collection, storage and Reuse of the treated sewage/ trade effluent by member units.	<p>Condition is being complied.</p> <p>SIPCOT will not develop CETP/CMSW TSF. Individual Industries are mandated to have their own ETP and STP. Treated wastewater is reused for greenbelt development.</p> <p>Municipal solid waste are managed by individual industries, hazardous waste generated are disposed through authorized recyclers by individual industries.</p>
10.	SIPCOT shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or B industry as prescribed in the schedule of EIA notification 2006. However it is liberty to the Developer to make fresh application for EC before the concerned authority if the Developer so desires to allot / sale the industrial plot for the individual industry to house category A or category B type of industry as prescribed in the schedule of EIA notification 2006 for fresh Environment Clearance (EC).	Condition is being complied.
11.	SIPCOT shall house in the Industrial park only industries that do not attract the provision of EIA Notification 2006 as committed.	<p>Condition noted.</p> <p>If any EC category industries are approached then SIPCOT mandates the unit to obtain separate environmental clearance from MoEF&CC / SEIAA-TN.</p>
12.	The water requirement shall be met from the Chembarambakkam Lake (TTRO water) through CMWSSB as committed, by SIPCOT.	<p>Condition complied.</p> <p>The water requirement is being met from the TTRO plant (Koyambedu) and Chembarambakkam Lake through CMWSSB. CMWSSB allotment letter is enclosed as Annexure - 4.</p>
13.	The measures contemplated in the EIA report shall be adhered to by the SIPCOT.	Condition noted.

14.	Treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.	Condition is being complied.
15.	There shall be no discharge of treated sewage/ trade effluent outside the Pre Industrial Park at any time.	Condition noted. SIPCOT has mandated the individual units to adopt ZLD system and to reuse the treated water for their process utilities. Hence, there will not be any discharge of treated sewage / trade effluent.
16.	No drawl of ground water is permitted within the SIPCOT Industrial Park premises during construction/operation phase.	Condition is being Complied There is no drawl of ground water within the Industrial Park. Water supply letter is enclosed as annexure - 4
17.	SIPCOT shall mandate the member units of the Industrial Park to discharge emissions within permissible limits only and to install adequate APC measures and to allot 30% of the plot area for green belt development and to install rain water harvesting structures.	Condition is being Complied. Condition is being Complied. All the member units are instructed to follow applicable rules and guidelines. Air quality monitoring report and monitoring photograph is enclosed as Annexure - 13
18.	SIPCOT shall mandate that all its unit shall furnish separate plan of action for disposal of treated sewage during monsoon months such as optimal / minimized usage of water, regulate the application of treated sewage to avoid stagnation etc.	Condition is being complied.
19	SIPCOT shall ensure that storm water drain provided at project site shall be maintained without chocking for stagnation and should also ensure that the storm water shall be properly disposed in the natural drainage course.	Condition is being complied. The Storm water drain photograph is attached as Annexure –12

SIPCOT as well as its member units shall mandated to comply the following conditions

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Organic converter shall be installed for treating the organic waste and sludge from septic tank and the treated mass shall be used as manure.	Condition is being complied. Individual Industries are instructed to have their own solid waste management system.
2.	The SIPCOT shall ensure that rainwater collected from the covered roof of the building etc., shall be scientifically harvested so as to ensure the maximum beneficiation of rain water harvesting.	Individual industries shall comply with.
3.	SIPCOT shall mandate all its member units that Rain water harvesting for surface run-off, should be filtered before recharging the surface run off, pre- treatment with screens, settles etc. must be done to remove suspended matter, oil and grease.	Individual industries shall comply with.
4.	The proponent should also ensure to keep necessary road width as per O.M.dated 7.2.12 of MoEF, GOI, New Delhi with respect to high rise buildings.	Condition complied.
5.	The Plastic wastes shall be segregated and disposed through authorized recyclers.	All the member units are instructed to follow applicable rules and guidelines.
6.	A First Aid Room shall be provided with qualified personnel during operation of the project.	Condition is being complied. Photograph of the same is enclosed as Annexure- 17
7.	Adequate fire protection equipments and rescue arrangements should be made.	Condition is being complied. Fire protection equipment photograph is enclosed as Annexure - 16

8.	A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments / operations	Condition complied. Separate environmental management cell has been assigned and will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environment Cell with Organogram and responsibilities are enclosed as Annexure-5 .
9.	The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, etc. and the noise level shall be maintained as per MoEF / CPCB / TNPCB guidelines / norms both during day and night time.	Condition is being complied. All the member units are instructed to follow applicable rules and guidelines. Noise quality monitoring report and monitoring photograph is enclosed as Annexure- 3
10.	The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot shall be suitably and scaped and covered with vegetation of suitable variety.	Condition is being complied.
11.	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the buildings shall be provided.	Individual industries shall comply with.
12.	Traffic congestion near the exit points from the roads adjoining the Proposed project site shall be avoided Parking shall be fully internalized and no public space should be utilized.	Condition is being complied.
13.	A report on the energy measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials &	The proposed project is an establishment of industrial park which involves provision of roads, storm water drains, greenbelt, Power supply, water

	technology, R & U factors etc and submitted to the SEIAA in three month's time.	supply, etc. The member units will be instructed to follow applicable rules and guidelines.
14.	Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.	Condition is being complied. Environmental monitoring report and photograph is enclosed as Annexure – 3 & Annexure - 14.
15.	SIPCOT shall collect periodical water samples in the adjacent lakes and sufficient well water samples atleast once in 3 months for physio-chemical and biological analysis and shall keep the baseline data for record. The compiled annual Report of Analysis shall be forwarded to TNPCB to ascertain the changes in the quality of the lake water, if any followed by remediation / action.	Condition is being complied. Ground water and Surface water quality monitoring report is enclosed as Annexure - 3.
16.	NOC from Forest Department / Chief Wildlife Warden should be obtained for reserve forests or Wild Life Sanctuaries located within 10 Km radius from the boundary of SIPCOT area before allotting land to member industries	Not applicable.

PART C GENERAL CONDITIONS

(Construction and Operation stage)

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	It is mandatory for the Project proponent to furnish to the SEIAA, Half yearly compliance report 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.	Condition is being complied. Half Yearly compliance report are being submitted to the SEIAA-TN periodically. Screenshot of the previous Half Yearly compliance report is uploaded in the portal is enclosed as Annexure -7.
2.	In the case of any change(s) in the scope of the project or in the product mix, a fresh appraisal by the SEAC/SEIAA shall be obtained.	Condition noted. There is no change in scope of the project.

3.	The SEIAA reserves the right to add additional safeguard measures subsequently, if found non compliance of EC conditions and to take action including revoking of this Environmental Clearance as the case may be.	Condition noted.
4.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life(Protection) Act, 1972, State / CMW SSB, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.	Condition is being complied. All the member industries are instructed to obtain all necessary statutory clearances and approvals from the competent authority.
5.	The project authorities should advertise with basic details at least in two local newspaper widely circulated one of which shall be in the vernacular language of the locality within 7 days of issue of clearance and a copy of the clearance with the State Pollution Control Board and also at website of, SEIAA, TN and a copy of the same should be forwarded to the Regional Office of the MoEF located at Bangalore.	Condition complied. The Newspaper advertisement that the project has been accorded Environmental Clearance is as Annexure – 6
6.	Under the provision of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent, if it was found that Construction of the project has been started without obtaining Environmental Clearance, and for action for any violation of any condition stipulated in the Environmental Clearance.	Condition noted. Environmental clearance obtained from SEIAA-TN, enclosed as Annexure 1
7.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their	Condition is being complied. SIPCOT have uploaded the status of compliance of the stipulated EC conditions,

	<p>website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) 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.</p>	<p>including results of monitored data on our website and same sent to the concerned authority. Same is updated the periodically.</p> <p>Screenshot of compliance report uploaded in website is enclosed as Annexure - 7.</p>
8.	<p>A copy of the clearance letter shall be sent by the proponent to the Block Development Officer and the Local NGO if any, from whom suggestions/ representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the proponent.</p>	<p>Condition complied.</p> <p>A copy of the clearance letter has been submitted Local Body and the copy of the same are enclosed as Annexure -8. Clearance letter has also been uploaded to our website and it is enclosed as Annexure - 9.</p>
9.	<p>Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.</p>	<p>Condition Noted.</p> <p>Occupational health surveillance program of the workers is undertaken periodically by individual industries and photograph of the same is enclosed as Annexure -17</p>
10.	<p>Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.</p>	<p>Condition Noted.</p> <p>Periodical medical examination is carried out for the workers by individual industries are enclosed as Annexure- 17.</p>

11.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the organization.	Condition complied. Separate environmental management cell has been assigned and will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details are given as Annexure - 5.
12.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Bangalore.	Condition is being complied.
13.	The Regional Office of the Ministry located at Bangalore 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.
14.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bangalore, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board.	Condition is being complied. Six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data is submitted to the concerned authority and upload copy is enclosed as Annexure - 7.

15.	The environmental statement for each financial year ending 31st March in Form- V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules,1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bangalore by e-mail.	Condition is being complied. The environmental statement for each financial year ending 31st March in Form- V as is mandated to be submitted to TNPCB and Acknowledgement for submission of Form – V to TNPCB is enclosed as Annexure – 10.
16.	The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.	Condition Noted. All the member units are instructed to obtain all other statutory clearance from the respective authority.
17.	This Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance	Condition Noted.
18.	The SEIAA, TN may alter above conditions or stipulate any further condition in the interest of environment protection.	Condition Noted.
19.	The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false	Condition Noted.

	or misleading information or inadequate\ data for obtaining the environmental clearance.	
20.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Condition Noted.
21.	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention& Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986,the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules ,010 framed under MMDR Actn1957,National Commission for protection of Child Right Rules,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India / Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.	Condition Noted.
22.	Any appeal against this environmental clearance 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.

5. ENVIRONMENTAL MONITORING DETAILS

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

5.1 Ambient Air Quality monitoring

During construction phase, particulate matter and gaseous emissions are likely to arise from the site movement of vehicles, operation of DG sets etc., the ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored. The test report of ambient air quality for the period of October 2024 to March 2025 is enclosed as **Annexure - 3**.

5.2 Ambient Noise level monitoring

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of October 2024 to March 2025 is enclosed as **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 the period of 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 the period of October 2024 to March 2025. The test report of bore well water collected and analyzed is enclosed as **Annexure- 3**.

5.5 Surface water quality monitoring

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

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 complied / being complied.


Dr. RAJKUMAR SAMUEL
Director Technical

Name: Dr. Rajkumar Samuel

Designation: Director Technical

Company Name: Hubert Enviro Care
Systems Private Limited

DR. H.MALLESHAPPA ,I.F.S.,
MEMBER SECRETARY



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT AUTHORITY,
TAMILNADU,
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
Chennai-15.

Letter No. SEIAA/TN/F-660/EC/ 8(b)/198/2012 dt . 20.08.2013

To

The Principal Secretary/Chairman and Managing Director,
SIPCOT,
19/A, Rukmani Lakshminipathy Road,
Egmore, Chennai-600 008.

Sir,

Sub: SEIAA, TN - Environmental Clearance - Proposed project of Vallam – Vadagal Industrial Park over an extent of 464.10 ha (1146.31 acres) in Vallam, Vadagal and Budanur Villages, Sriperumpudur Taluk, Kancheepuram District under Category “B1” and Schedule S.No. 8(b) by The Principal Secretary/Chairman and Managing Director, M/s. SIPCOT – Issued – Regarding

- Ref:
1. Your application for EC dt. 6.12.2012 submitted to SEIAA, TN
 2. T/O. letter No. SEIAA-TN/F.No.660/M-XXXIX/TOR-121/2012. dt. 17.05.2013
 3. T/O. letter No. SEIAA-TN/F.No.660/M-XXXIX/TOR-121/2012/ Amendment/2013. dt. 06.06.2013
 4. Your letter No. P & SP/Vallam –Vadagal/2012 dt. 19.07.2013
 5. Minutes of the 42nd SEAC meeting held on 24.07.2013 & 25.07.2013
 6. Minutes of the 84th SEIAA meeting held on 19.08.2013

This has reference to your application dated 6.12.2012 submitted to the State Level Environment Impact Assessment Authority, Tamil Nadu seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006.

It is noted, interalia, that the project proposal is for the infrastructural development of an Industrial Park at S.F.Nos. listed vide Annexure of Vallam, Vadagal and Budanur Villages, Sriperumpudur Taluk, Kancheepuram District as per the application submitted. The total area of development is 464.10 ha (1146.31 acres) and is exclusively for industries that do not attract the provisions of EIA notification 2006. The member units will be required to take consent from the TNPCCB, individually.

As a developer, the SIPCOT has proposed to provide infrastructure facilities like road, water and other amenities. SIPCOT proposes to allot only developed plots to the potential industries based on the comprehensive assessment of investment, technology,

ENVIRONMENTAL CLEARANCE

employment, export, compliance to environmental regulations, etc and to insist them to maintain ZLD in accordance with the TNPCB norms. The cost of the project is Rs. 240 Crores. The breakup of the total area is tabulated as below:

S.No.	Area Breakup	Area in acres
1	Member industries	899.32
2	Roads	101.98
3	Common facilities like TNEB	10.60
4	Electrical installation-TNEB	16.80
5	OSR/ Green belt development	117.61
	Total	1146.31 acres

Water requirement of the project during construction phase is 10,00,000 litres which shall be met by SIPCOT from the existing pipeline leading to Oragadam Industrial Growth Centre. Total Water requirement for the operation phase is 6810 KL/D which will be met from CMWSSB (TIRU water).

The member industries will be mandated to have their own STP for treating sewage. SIPCOT will have septic tank and soak pit to treat sewage from the project office and security establishments. The effluent units will be mandated by the SIPCOT to put up ZLD based Effluent Treatment Plants for treating trade effluents and will completely recycle or reuse the treated effluent in the utilities and for green belt development. The member industries will be mandated by SIPCOT to commit for pollution control measures in respect of water/waste water, air/emission, solid waste and noise as per the standards prescribed by the TNPCB. The member industries will be mandated to take authorization for storage of hazardous solid waste, if any, from TNPCB and the solid waste will be sent to CPCB approved recyclers or to TSDF.

The initial requirement of power is 50 MW reported as. No DG sets will be used during construction period, as per the proposals.

The project activity is covered in 8(b) of the Schedule and falls under 'B1' category. As per the amendment dt. 1.12.2009 to the EIA notification, 2006, the industrial estate of area less than 500 ha but contain building and construction projects > 20,000 sq.m and or development area more than 50 ha will be treated as activity listed at serial no. 8 (a) or 8 (b) in the schedule as the case may be.

ENVIRONMENTAL CLEARANCE

In this proposal, no 'A' or 'B' category industry has been proposed to be housed and also the development area (464.10 ha) is more than 50 ha and hence, this project is considered as S (b) category which requires EIA report and does not require Public Consultation. Therefore the project does not require Public Consultation as per Para 7(i) III Stage (3) (d) 'Public Consultation' of EIA Notification, 2006.

The SEAC, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations has recommended vide Item No. 42-26 in its 42nd SEAC meeting held on 24.07.2013 & 25.07.2013 to the SEIAA, Tamil Nadu to grant Environmental Clearance to this project.

The project was considered by the SEIAA, Tamil Nadu in its 84th meeting held on 19.08.2013 in detail and decided to grant EC. Accordingly, SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September, 2006, as amended with validity for five years from the date of issue of EC, subject to the strict compliance of the terms and conditions stipulated below:

**PART A- SPECIFIC CONDITIONS****Construction Phase**

- i) "Consent for Establishment" shall be obtained by SIPCOT as well as by all member industries from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
- ii) SIPCOT shall not alter, change or reroute the natural course of the water bodies either partly or wholly and shall ensure to take every precautionary steps to keep the alignment, direction of flow, size etc of the water bodies to have its natural and smooth passage in existence over year.
- iii) SIPCOT shall ensure that any construction/ development activity shall not change or alter the course of storm water flow either directly or indirectly and shall ensure that every precautionary step shall be taken to ensure the natural existence of waterways with respect to the nearby lakes.
- iv) SIPCOT shall mandated that all member units provide complete closed pipeline system for the collection, storage and Reuse systems for the treated sewage/ trade effluent generated from the individual industry with provisions to ensure regular treated sewage/ effluent sample collection periodically from

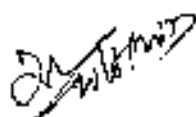
ENVIRONMENTAL CLEARANCE

all the individual industries to ensure the degree of treatment and also to ensure complete compliance of the standards prescribed by the TNPCB.

- v) SIPCOT shall mandated that the member units should be commissioned only after securing water supply connection from the Chembarambakkam Lake through CMWSSB by SIPCOT.

SIPCOT shall adhere the following conditions and also mandated to all its member units to adhere the conditions.

1. The excavated earth / construction debris must be used within the premises only.
2. The solid waste in the form of excavated earth excluding the top soil scientifically utilized for approach road and peripheral roads constructions.
3. All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
4. Disposal of other construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed of only in approved sites with the approval of competent authority with necessary precautions for general safety and health aspects of people.
5. Adequate potable drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.
6. All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.
7. For disinfection of waste-water, system using ultra violet radiation shall be adopted.
8. For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.
9. The e - waste generated shall be handed over to the authorized recyclers.
10. All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.
11. A First Aid Room shall be provided with qualified personnel during operation of the project.
12. Disposal of muck, generated during the construction phase should be so managed as not to create any adverse effect on the neighboring areas and communities and



MEMBER SECRETARY,
SEIAA -TN

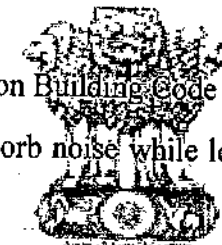
ENVIRONMENTAL CLEARANCE

be disposed of only in approved sites with the approval of the concerned local body with necessary precautions for general safety and health aspects of people.

13. Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
14. Construction spoils and spills including bituminous materials and other hazardous materials must not be allowed to contaminate water courses. The dump sites for such materials must be impervious so that they do not leach into the ground water.
15. No ground water shall be drawn within SIPCOT area for construction period.
16. Vehicles hired for bringing construction materials to the site should be in good operable condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.
17. Ambient air and noise levels should conform to residential standards prescribed by the TNPCB both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase and results of monitoring shall be furnished to the Tamilnadu Pollution Control Board by recording base-line data of recent origin. Adequate measures to reduce air and noise pollution during construction shall be adopted, conforming to the norms prescribed by the TNPCB on noise limits.
18. Building materials composed wholly or partly of fly Ash should be used in the construction activities as per the provision of Fly ash Notification of September, 1999 as amended in August, 2003.
19. Ready mixed concrete must be used in building construction.
20. Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.
21. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
22. Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.
23. Use of glass may be reduced by up to 40% to reduce the electricity consumption load on air conditioning. If necessary, high quality double glass with special reflecting outside coating shall be used for windows.

ENVIRONMENTAL CLEARANCE

24. Roof should be designed to meet prescriptive requirement of Energy Conservation Building Code (ECBC) by the use of appropriate thermal insulation material.
 25. Opaque wall should be made to meet prescriptive requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material.
 26. Proper approach road for fire fighting vehicles and for rescue operations in the event of emergency shall be provided.
 27. Adequate fire protection equipments and rescue arrangements should be made.
 28. A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments / operations.
 29. Design of buildings should be in conformity with the Seismic Zone Classification.
 30. All Energy Conservation Building Code (ECBC) norms shall be adopted.
 31. Rubber padding to absorb noise while loading & unloading operation should be provided.
 32. The probable date of commissioning of the project supported with necessary bar charts shall be furnished to the SEIAA, Tamil Nadu.
- (vi) SIPCOT shall conduct EIA study for one season excluding rainy season for all parameters such as water, air, noise, waste water etc and submit to SEIAA before March 2014.

**Operation Phase**

- i) SIPCOT shall ensure that the water bodies shall be kept in their natural course without any change in its alignment, direction, capacity etc during entire operation phase of the project.
- ii) SIPCOT shall also ensure that the catchment area of the adjacent lakes shall not be disturbed or realigned or redistributed or restricted etc during the entire operation phase of the project.
- iii) No bund shall be formed around the premises of SIPCOT which obstruct the rain water flow to the lakes located abetting the Industrial Park.
- iv) SIPCOT shall mandated all member units ensure that the treated sewage/ trade effluent collection, storage and Reuse system shall not have any access at any cost, to the water bodies. All precautionary steps shall be effectively taken and shall be continuously monitored by the Developer so as to prevent

[Handwritten signature]

[Handwritten signature]
MEMBER SECRETARY,
SEIAA - TN

ENVIRONMENTAL CLEARANCE

the leachate or discharge of the treated sewage/ trade effluent into canal/ Lakes.

- v) The irrigational rights of the lands / land owners whose lands are not yet acquired should not be either disturbed or denied for any reasons; it should be ensured that they get not only required and eligible water supply to their patta lands, but also should have free access to their respective lands.
- vi) SIPCOT shall ensure that only after Rehabilitation & Resettlement ie., after making payment to all the land owners as per law, the land can be allotted to the member industries.
- vii) The lands under litigation shouldn't be sold/handed over to any industry till the judgement is finalised and delivered in favour of SIPCOT by the concerned court.
- viii) SIPCOT shall ensure that the Green Belt Development as committed including the premises owned by the individual industries and a saving clause in the allotment/sale deed executed with every industry shall be provided.
- ix) SIPCOT shall ensure that no CETP/ CMSWTSF shall be provided for the sewage, trade effluent, municipal solid waste generated from the individual industries except the facilities for the collection, storage and Reuse of the treated sewage/ trade effluent by member units.
- x) SIPCOT shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, it is liberty to the Developer to make fresh application for EC before the concerned authority if the Developer so desires to allot/ sale the industrial plot for the individual industry to house category A or category B type of industry as prescribed in the schedule of EIA notification 2006 for fresh Environment Clearance (EC).
- xi) SIPCOT shall house in the Industrial park only industries that do not attract the provision of EIA Notification 2006 as committed.
- xii) The water requirement shall be met from the Chembarambakkam Lake (TTRO water) through CMWSSB as committed, by SIPCOT.
- xiii) The measures contemplated in the EIA report shall be adhered to by the SIPCOT.
- xiv) Treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
- xv) There shall be no discharge of treated sewage / trade effluent outside the Pre Industrial Park at any time.

ENVIRONMENTAL CLEARANCE

- xvi) No drawal of ground water is permitted within the SIPCOT Industrial Park premises during construction/ operation phase.
- xvii) SIPCOT shall mandate the member units of the Industrial Park to discharge emissions within permissible limits only and to install adequate APC measures and to allot 30% of the plot area for green belt development and to install rain water harvesting structures.
- xviii) SIPCOT shall mandate that all its unit shall furnish separate plan of action for disposal of treated sewage during monsoon months such as optimal / minimized usage of water, regulate the application of treated sewage to avoid stagnation etc.
- xix) The SIPCOT shall ensure that storm water drain provided at project site shall be maintained without chocking for stagnation and should also ensure that the storm water shall be properly disposed in the natural drainage course.

SIPCOT as well as its member units shall mandated to comply the following conditions:

1. Organic converter shall be installed for treating the organic waste and sludge from septic tank and the treated mass shall be used as manure.
2. The SIPCOT shall ensure that rain water collected from the covered roof of the buildings, etc shall be scientifically harvested so as to ensure the maximum beneficiation of rain water harvesting.
3. SIPCOT shall mandate all its member units that Rain water harvesting for surface run-off, should be filtered before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease.
4. The proponent should also ensure to keep necessary road width as per O.M. dated 7.2.12 of MOEF, GOI, New Delhi with respect to high rise buildings.
5. The Plastic wastes shall be segregated and disposed through authorized recyclers.
6. A First Aid Room shall be provided with qualified personnel during operation of the project.
7. Adequate fire protection equipments and rescue arrangements should be made.
8. A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments / operations.

ENVIRONMENTAL CLEARANCE

9. The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, etc. and the noise level shall be maintained as per MoEF / CPCB / TNPCB guidelines / norms both during day and night time.
10. The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable variety.
11. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the buildings shall be provided.
12. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized.
13. A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology, R & U factors etc and submitted to the SEIAA in three month's time.
14. Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.
15. SIPCOT shall collect periodical water samples in the adjacent lakes and sufficient well water samples atleast once in 3 months for physio-chemical and biological analysis and shall keep the baseline data for record. The compiled annual Report of Analysis shall be forwarded to TNPCB to ascertain the changes in the quality of the lake water, if any followed by remediation / action.
16. NOC from Forest Department / Chief Wildlife Warden should be obtained for reserve forests or Wild Life Sanctuaries located within 10 Km radius from the boundary of SIPCOT area before allotting land to member industries.

PART-B. GENERAL CONDITIONS (Construction and Operation stage)

- i). It is mandatory for the Project proponent to furnish to the SEIAA, Half yearly compliance report 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.

- ii) In the case of any change(s) in the scope of the project or in the product mix, a fresh appraisal by the SEAC/SEIAA shall be obtained.
- iii) The SEIAA reserves the right to add additional safeguard measures subsequently, if found non compliance of EC conditions and to take action including revoking of this Environmental Clearance as the case may be.
- iv) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / CMWSSB, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.
- v) The project authorities should advertise with basic details at least in two local newspaper widely circulated one of which shall be in the vernacular language of the locality concerned, within 7 days of issue of clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN and a copy of the same should be forwarded to the Regional Office of the MoEF located at Bangalore.
- vi) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent, if it was found that Construction of the project has been started without obtaining Environmental Clearance, and for action for any violation of any condition stipulated in the Environmental Clearance.
- vii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) 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.
- viii) A copy of the clearance letter shall be sent by the proponent to the Block Development Officer and the Local NGO, if any, from whom suggestions

[Handwritten signature]

ENVIRONMENTAL CLEARANCE

/representations, if any, have been received while processing the proposal.
The clearance letter shall also be put on the website of the proponent.

- ix) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- x) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.
- xi) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- xii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Bangalore.
- xiii) The Regional Office of the Ministry located at Bangalore 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.
- xiv) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bangalore, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board.
- xv) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also

be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bangalore by e-mail.

- xvi) The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
- xvii) This Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
- xviii) The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xix) The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- xx) Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- xxi) The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the

ENVIRONMENTAL CLEARANCE

Hon'ble Supreme Court of India / Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.

xxii) Any appeal against this environmental clearance 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.

[Signature]
MEMBER SECRETARY,
SEIAA -TN

Copy to:-

1. The Secretary to Government, Environment & Forests Dept,
Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Secretary to Government, Industries Dept,
Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan,
CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
4. The Member Secretary, Tamil Nadu Pollution Control Board,
76, Mount Salai, Guindy, Chennai-600032.
5. The CCF, Regional Office, Ministry of Environment & Forest (SZ),
Kendriya Sadan, IV floor, E&F wings, 17th Main Road,
Koramangala II Block, Bangalore - 560034.
7. Monitoring Cell, I A Division, Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex, New Delhi 110003.
8. The District Collector, Dt. Collectorate,
Kancheepuram District.
9. The Commissioner ,
Sriperumbudur Taluk, Kancheepuram District.
10. The Chief Engineer (Chennai Region),
WRO, Taramani, Chennai.
11. Stock File.

ENVIRONMENTAL CLEARANCE

ANNEXURE
DETAILS OF SURVEY NUMBERS FOR VALLAM VADAGAL INDUSTRIAL PARK

Sl.No	Unit/Village	Extent/ Hect
1	I/ Vadagal 'A'	123.17
2	II/ Vadagal 'A'	117.95
3	III/ Vadagal 'B'	78.02
	III/ Budanur	83.65
4	IV/ Vallam 'A'	61.305
	TOTAL	464.095
		1146.31 acres

S.F.NO	Extension Hectare		Total
	Patta Land	Porambokke Land	
1	8.175	0.405	8.58
2	1.555	0	1.555
9	2.41	0	2.41
8	1.805	0.245	2.05
10	1.77	0.405	2.175
11	0.42	0.42	0.42
12	0.345	0.345	0.345
13	1.77	1	2.77
14	0	0.54	0.54
15	4.5	0.095	4.595
16	3.635	0.805	4.44
17	3.01	1.2	4.21
18	6.48	0.11	6.59
19	3.35	0	3.35
20	2.48	0.25	2.73
21	3.24	0	3.24
22	4.505	0.07	4.575
23	1.965	2.825	4.79
24	1.265	2.095	3.36
25	1.53	0	1.53
26	4.13	0	4.13
27	4.095	0.185	4.28
28	3.67	0.16	3.83
29	3.075	0.455	3.53
30	3.38	0.015	3.395
31	2.49	0.51	3.00
32	2.975	0.125	3.10
33 pt	0	0.58	0.58
34 pt	0	0.34	0.34
37	3.21	1.24	4.45
40	4.58	0	4.58
41	3.74	0.2	3.94

ENVIRONMENTAL CLEARANCE

42	3.055	0.175	3.23
39	4.65	0.09	4.74
43	3.26	0.34	3.6
44	2.985	0	2.985
45	1.995	3.21	5.205
	104.735	18.435	123.17
Village - Vadagal "A" Unit II			
46	5.05	0.195	5.245
47	4.82	0	4.82
48	2.345	0.155	2.5
49	2.745	0.48	3.225
58	5.47	0	5.47
59	2.95	0.055	3.005
60	4.705	0.98	5.685
61	5.56	0.04	5.6
62	5.78	0	5.78
63	1.72	0	1.72
64 pr.	1.67	0	1.67
54	2.77	1.26	4.03
55	3.765	0	3.765
56	4.31	0	4.3
57	4.655	0.095	4.75
66	2.55	0	2.55
67	1.875	0	1.875
68	0.965	0	0.965
69	0.47	0.47	0.47
70	0.225	0.225	0.225
71	2.08	0	2.08
74	3.395	0	3.395
119	1.05	0	1.05
120	4.335	0.105	4.44
122	2.315	0.18	2.495
123	4.385	0	4.385
124	1.715	0.225	1.94
125	2.465	0.26	2.725
137	2.48	0.03	2.51
138	3.775	0	3.775
127	4.11	0.485	4.595
136	3.075	0	3.075
128	3.465	0	3.465
129	2.525	0.03	2.555
132	2.115	0	2.115
133	0	1	1
134	2.885	0	2.885
135	1.815	0	1.815
	111.68	6.27	117.95
Village - Vadagal "B" Unit III			
148	2.165	0.095	2.26

ENVIRONMENTAL CLEARANCE

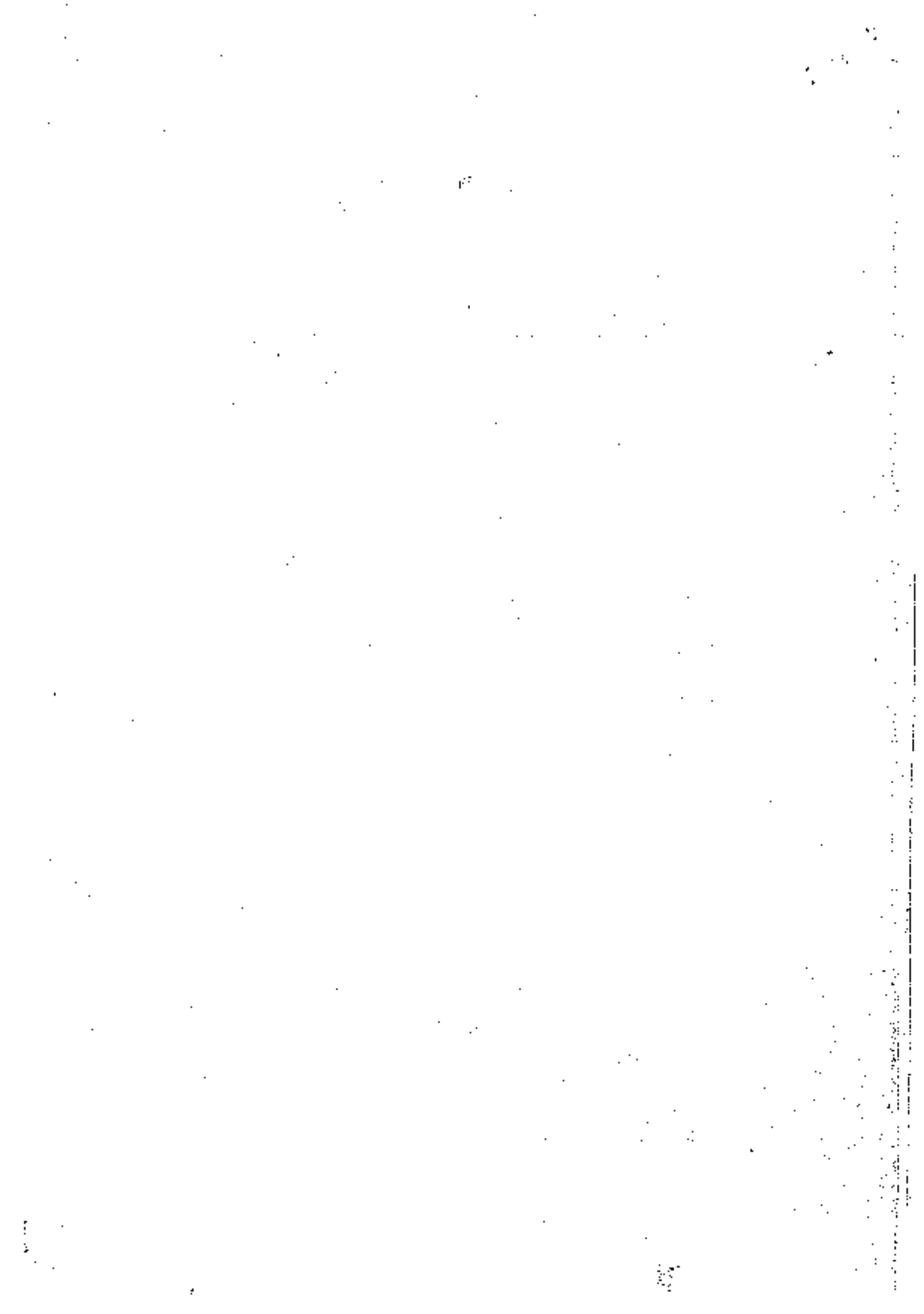
264	1.065	0.055	1.12
S.F.NO	Extension Hectare		Total
	Patta Land	Poramboke Land	
25	1.395		1.395
266	1.805	1.195	3.00
267	4.44	0.22	4.66
145	3.575	0	3.575
146	2.5	0.075	2.575
147	4.5	0.085	4.585
149	1.485		1.485
150	1.935		1.935
141	2.335		2.335
142	2.355		2.355
143	3.525		3.525
144	4.15		4.15
139	3.475		3.475
140	1.78		1.78
157	1.685		1.685
159	5.115		5.115
160	3.27		3.27
154 pt	0.455		0.455
158	2.015		2.015
165	2.30		2.30
166	1.71		1.71
167	1.385	0.98	2.365
168	1.725	0.07	1.795
169	3.535	0.17	3.705
170	2.45		2.45
171	1.645		1.645
172	2.075		2.075
174	1.55	0.115	1.665
175 pt	1.37	0.19	1.56
	74.77	3.25	78.02
Village - Budanur Unit III			
53	0.755		0.755
56	0.285		0.285
57	2.335		2.335
58	0.82		0.82
60	0.09		0.09
61	0.085		0.085
62	0.295		0.295
63	1.02		1.02
64	0.235		0.235
65	0.075		0.075
66	0.32		0.32
67	1.07		1.07
68	0.055		0.055
69	0.65		0.65

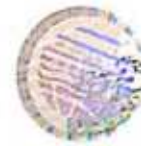
ENVIRONMENTAL CLEARANCE

54		0.38	0.38
59		0.16	0.16
70	1.115		1.115
S.F.NO	Extension Hectare		Total
	Patta Land	Porambokke Land	
71	0.645		0.645
72	0.355		0.355
74	1.535		1.535
87	1.84		1.84
88	1.225		1.225
89	1.75		1.75
73		0.235	0.235
90	1.575		1.575
95	0.65		0.65
96	0.945		0.945
91		1.75	1.75
92		1.21	1.21
93		2.835	2.835
94		3.41	3.41
97		0.415	0.415
79	0.375	0	0.375
82	6.7		6.7
83	0.09	1.18	1.27
84	0.19		0.19
85	1.395		1.395
86	3.975		3.975
6	1.56		1.56
76	3.92		3.92
78	5		5
80	1.185		1.185
81	2.835		2.835
7		0.18	0.18
77		1.08	1.08
8 pt	1.095		1.095
10 pt	3.075		3.075
12	3.155		3.155
13	3		3
14	1.45		1.45
2	5.28		5.28
3	2.945		2.945
4	1.025		1.025
5	1.89		1.89
1		0.785	0.785
11		0.165	0.165
	69.865	13.785	83.65
Village - Vallam "A" Unit IV			
18		0.13	0.13
19		0.415	0.415

ENVIRONMENTAL CLEARANCE

21		0.545	0.545
25		0.48	0.48
26	1.65	0.195	1.845
27	2.695	0.075	2.77
29	2.215	0.235	2.45
S.F.NO	Extension Hectare		Total
	Patta Land	Porambokke Land	
30		0.585	0.585
31		0.63	0.63
34	2.555		2.555
28	4.575		4.575
35	4.365		4.365
36		0.415	0.415
37	2.365		2.365
38	3.285		3.285
39	4.84	0.605	5.445
44	0	0.155	0.155
40	4.15	1.315	5.465
41	2.93	0.395	3.325
42	1.955	0.04	1.995
33	0.11	0.395	0.395
45	1.765	0.73	2.495
46	0.21	0	0.21
47	2.035	0	2.035
50	1.31	0	1.31
48		0	0
49		0	0
51	0	0.515	0.515
53	0	0.255	0.255
54	1.485	0	1.485
55	0	0.245	0.245
56	0	0.325	0.325
201 pt	1.127	0	1.127
202 pt	1.826	0	1.826
203 pt	2.005	0.035	2.04
206 pt	3.212	0.035	3.247
	52.555	8.75	61.305
Total	413.605	50.490	464.095





TAMILNADU POLLUTION CONTROL BOARD

CONSENT ORDER NO: 6258 Dated: 18.11.2013

PROCEEDINGS. NO: T11/TNPCB/F.36669/SPR/RL/W/2013 DATED: 18.11.2013

Sub: Tamil Nadu Pollution Control Board - Consent for Establishment -
M/S. SIPCOT INDUSTRIAL PARK (VALLAM - VADAGAL), Vadagal 'A',
SF. No. 1, 2, 8, 9, 10 etc., Vadagal 'B', SF. No. 148, 264, 25, 266 etc.,
Budalur SF. No. 53, 56, 57, 58, etc., & Vallam 'A' Villages SF. No. 18, 19,
21, 25 etc., Sriperumbudur Taluk, Kancheepuram District - For the
establishment or take steps to establish the industry under Section 25 of
the **Water** (Prevention and Control of Pollution) Act, 1974, as amended in
1988) (Central Act, 53 of 1988) - Reg.

Ref: 1. Your Application Registration No CC17922 Dated: 28.09.2013.
2. I.R. No. : F.MMN1772/RL/DEE/SPR/2013 Dated: 15.10.2013.
3. Board's resolution (Technical Sub Committee) No.89-06 Dated:
11.11.2013.

Consent to establish or take steps to establish is hereby granted under Section 25 of the
Water (Prevention and Control of Pollution) Act, 1974, as amended in 1988 and the Rules
and Orders made there under to

The Chairman & Managing Director,
M/S.SIPCOT INDUSTRIAL PARK (VALLAM - VADAGAL),

(hereinafter referred to as 'The Applicant') authorizing him to establish or take steps to
establish the industry in the site mentioned below:

Vadagal 'A', SF. No. 1, 2, 8, 9, 10 etc.,
Vadagal 'B', SF. No. 148, 264, 25, 266 etc.,
Budalur SF. No. 53, 56, 57, 58, etc.,
& Vallam 'A' Villages SF. No. 18, 19, 21, 25 etc.,
Sriperumbudur Taluk,
Kancheepuram District.

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

This Consent to establish is valid for two years or till the industry obtains consent to operate under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974, as amended in 1988, whichever is earlier subject to special and general conditions enclosed.


Sd-xxxx
Chairman

To
The Chairman & Managing Director,
SIPCOT Limited,
19 A, Rukmani Lakshmipathy Road,
Egmore,
Chennai - 600 008.

Copy to

1. The District Environmental Engineer,
TamilNadu Pollution Control Board,
Sriperumbudur.
2. The Commissioner,
Sriperumbudur Panchayat Union,
Kancheepuram District.
3. Board Meeting Section.
4. Technical File.

//Forwarded by Order//


For Chairman
19/11/13

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



1207

TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

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

Description	Quantity
Main Products manufactured:	
Infrastructural development of an Industrial Park with an area of 464.10 Hectares and is exclusively for the establishment of Industries that do not attract the provisions of EIA Notification, 2006.	
By/Intermediate products manufactured: NIL	

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

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
1	Sewage 1	0.8 KLD generated from the SIPCOT project office	On Industry's own land
2	Trade Effluent	Nil	Individual ZLD System to be provide by units.

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

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

Nature of Effluent	Sl. No.	Components of ETP	No.	Dimensions (in meters)	Mechanical equipment like Aerator	
(1)	(2)	(2)	(3)	(4)	Capacity	Nos
Sewage (SIPCOT) (Office)	1	Septic tank	1	6x3x4		
	2	Soak pit	1	1m dia x1.2m		
Trade Effluent – NIL						

- The SIPCOT Industrial Park (Vallam - Vadagal) shall comply with the conditions stipulated in the Environmental clearance issued to the said Project vide SEIAA Lr. No. SEIAA/TN/F-660/EC/8(b)/198/2012 Dated: 20.8.2013.
- The SIPCOT shall provide Septic tank and soak pit arrangement as proposed for the treatment and disposal of sewage generated from the Project Office.
- The water requirement shall be met from the Chembarambakkam tank through CMWSSB as committed.
- The SIPCOT shall house in the Industrial Park only industries that do not attract the provision of EIA Notification 2006 as committed.
- The SIPCOT shall ensure that the allotted units are mandated to implement ZLD system for treating the trade effluent and shall ensure that no treated/untreated Sewage/trade effluent shall gain access outside the unit premises on land/water sources under any circumstances.
- The SIPCOT shall provide adequate Buffer zone of greenery around the project boundary and with great importance in the areas where habitations and water bodies are located so as to prevent water, air and noise pollution.
- The SIPCOT shall ensure that the existing village roads passing through the Project site shall be relocated as proposed for easy movement of traffic in consultation and with the concurrence of the Dept. concerned and shall not cause hindrance to the traffic movement.
- The SIPCOT has to ensure the proposed Industrial Park shall not affect the operation of Bore wells located within the SIPCOT Project boundary which are supplying drinking water to the villages of Palnallur, Vallam, Vallam Kandigai.
- The SIPCOT shall obtain and furnish the appropriate land use reclassification certificate as obtained from the competent authority while applying for CTO.

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



1209

TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS

1. The above consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The industry shall make a request for grant of consent to operate at least thirty days before the commissioning of trial production.
3. The unit shall construct compound wall around the boundary of the unit
4. Samples of water from the wells or any other nearby water sources have to be taken by the unit and get them analyzed by the Board Laboratory to develop base line data to assess the existing water quality.
5. The unit shall provide an alternate power source along with separate energy meter for the Effluent Treatment Plant to ensure continuous operation of the Effluent Treatment Plant.
6. The consent does not authorize or approve the construction of any physical structures or facilities, or the undertaking of any work in any natural watercourse.
7. Any change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
8. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (if applicable).
9. Consent to operate will not be issued unless the unit complies with all the conditions of consent to establish.
10. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

Sd-xxxx
Chairman

//Forwarded by Order//

[Signature]
For Chairman
19/11/13

S.K/ 19.11.2013

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

13. The allotted industries inside the SIPCOT premises shall obtain consent from the TNPCB.
14. No drawl of ground water is permitted within the SIPCOT Industrial Park premises.
15. The SIPCOT shall obtain and furnish the necessary approval obtained from the competent authority for drawl of water from Chembarambakkam tank, while applying for CTO.
16. The unit shall adopt safe and environment friendly management practices within the premises.
17. This consent order does not absolve from obtaining necessary permission/ Clearance from other Authority or under other statutes as applicable.

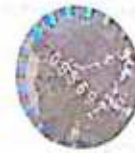
Sd-xxxx
Chairman

//Forwarded by Order//

For Chairman 13

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

CONSENT ORDER NO: 6197 DATED: 18.11.2013

PROCEEDINGS. NO: T11/TNPCB/F.36669/SPR/RL/A/2013 DATED: 18.11.2013

Sub: Tamil Nadu Pollution Control Board - Consent for Establishment -
M/S. SIPCOT INDUSTRIAL PARK (VALLAM - VADAGAL), Vadagal 'A',
SF. No. 1, 2, 8, 9, 10 etc., Vadagal 'B', SF. No. 148, 264, 25, 266 etc., Budanur
SF. No. 53, 56, 57, 58, etc., & Vallam 'A' Villages SF. No. 18, 19, 21, 25 etc.,
Sriperumbudur Taluk, Kancheepuram District - For the establishment or take
steps to establish the industry under Section 21 of the Air (Prevention and
Control of Pollution) Act, 1981, as amended in 1987 (Central Act, 14 of 1981) -
Reg.

- Ref:**
1. Your Application Registration No CC17922 Dated: 28.09.2013.
 2. I.R. No: F.MMN1772/RL/DEE/SPR/2013 Dated: 15.10.2013.
 3. Board's resolution (Technical Sub Committee) No.89-06 Dated: 11.11.2013.

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

The Chairman & Managing Director,

M/S.SIPCOT INDUSTRIAL PARK (VALLAM - VADAGAL),

(hereinafter referred to as 'The Applicant') authorizing him to establish or take steps to
establish the industry in the site mentioned below:

Vadagal 'A', SF. No. 1, 2, 8, 9, 10 etc.,
Vadagal 'B', SF. No. 148, 264, 25, 266 etc.,
Budanur SF. No. 53, 56, 57, 58, etc.,
& Vallam 'A' Villages SF. No. 18, 19, 21, 25 etc.,
Sriperumbudur Taluk,
Kancheepuram District.

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

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

**Sd-xxxx
Chairman**

To
The Chairman & Managing Director,
SIPCOT Limited,
19 A, Rukmani Lakshmi Pathy Road,
Egmore,
Chennai - 600 008.

Copy to

1. The District Environmental Engineer,
TamilNadu Pollution Control Board,
Sriperumbudur.
2. The Commissioner,
Sriperumbudur Panchayat Union,
Kancheepuram District.
3. Board Meeting Section.
4. Technical File.

//Forwarded by Order//

[Signature]
For Chairman
[Signature]

POLLUTION PREVENTION PAYS

அகம் தாய்மை வாய்மைக்கு! புறம் தாய்மை வாழ்வுக்கு!



1213

TAMILNADU POLLUTION CONTROL BOARD**SPECIAL CONDITIONS**

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

Description	Quantity
Main Products manufactured:	
Infrastructural development of an Industrial Park with an area of 464.10 Hectares and is exclusively for the establishment of Industries that do not attract the provisions of EIA Notification, 2006.	
By/Intermediate products manufactured: NIL	

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

Chimney/ Stack No.	Description of Chimney	Maximum Discharge in m ³ /hr	Point of Discharge-in meters (Above Ground level)
-----	-----	-----	-----

Additional Conditions:

3. The SIPCOT Industrial Park (Vallam - Vadagal) shall comply with the conditions stipulated in the Environmental clearance issued to the said Project vide SEIAA Lr. No. SEIAA/TN/F-660/EC/8(b)/198/2012 Dated: 20.8.2013.
4. The SICOT shall house in the Industrial Park only industries that do not attract the provision of EIA Notification 2006 as committed.
5. The SIPCOT shall provide adequate Buffer zone of greenery around the project boundary and with great importance in the areas where habitations and water bodies are located so as to prevent water, air and noise pollution.

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

6. The SIPCOT shall ensure that the existing village roads passing through the Project site shall be relocated as proposed for easy movement of traffic in consultation and with the concurrence of the Dept. concerned and shall not cause hindrance to the traffic movement.
7. The SIPCOT shall obtain and furnish the appropriate land use reclassification certificate as obtained from the competent authority while applying for CTO.
8. The allotted industries inside the SIPCOT premises shall obtain consent from the TNPCB
9. The unit shall adopt safe and environment friendly management practices within the premises.
10. This consent order does not absolve from obtaining necessary permission/ Clearance from other Authority or under other statutes as applicable.

Sd-xxxx
Chairman

//Forwarded by Order//

[Handwritten Signature]
For Chairman
19/11/13



1215

TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS

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

Sd-xxxx
Chairman

//Forwarded by Order//

For Chairman

S.K/19.11.2013

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

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

Page : 1 of 1

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

Address of the Client : Vallam Vadagal I

Group : Atmospheric Pollution

Sample Name : Ambient Air

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Near Project Area

Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0

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

ULR : TC1231025000016272F

Report No. : HECS/AP/077/150325

Sample ID No : 150325141

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 04/04/2025

Report Date : 04/04/2025

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	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	8.08	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	13.69	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	BLQ (LOQ: 10.0)	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	87.1	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	39.04	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	6.74	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.

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : Near Project Area
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/077/150325/N
Sample ID No : 150325141
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 04/04/2025
Report Date : 04/04/2025
Sample quantity : NA

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

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 1

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

Address of the Client : Vallam Vadagal I

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 : Santhavellore

Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0

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

ULR : TC1231025000016273F

Report No. : HECS/AP/078/150325

Sample ID No : 150325142

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 04/04/2025

Report Date : 04/04/2025

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLO (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	BLQ (LOQ: 5.0)	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	13.42	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	BLQ (LOQ: 10.0)	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	89.95	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	30.49	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	9.35	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.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Santhavellore
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/078/150325/N
Sample ID No : 150325142
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 04/04/2025
Report Date : 04/04/2025
Sample quantity : NA

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

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 1

ULR : TC1231025000016274F
Report No. : HECS/AP/079/150325
Sample ID No : 150325143
Sampling Date : 15/03/2025

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

Address of the Client : Vallam Vadagal I

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 : Thathanur
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 04/04/2025
Report Date : 04/04/2025
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	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	8.91	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	19.33	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m3	14.25	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m3	93.79	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m3	30.85	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m3	12.57	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.

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

Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Thathanur
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/079/150325/N
Sample ID No : 150325143
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 04/04/2025
Report Date : 04/04/2025
Sample quantity : NA

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

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 1

ULR : TC1231025000016275F
Report No. : HECS/AP/080/150325
Sample ID No : 150325144
Sampling Date : 15/03/2025

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

Address of the Client : Vallam Vadagal I

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 : Alagoor

Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0

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

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 04/04/2025

Report Date : 04/04/2025

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m ³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m ³	BLQ(LOQ:5)	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m ³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m ³	15.07	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m ³	BLQ(LOQ 10)	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	78.14	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	32.66	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m ³	9.75	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.

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Alagoor
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/080/150325/N
Sample ID No : 150325144
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 04/04/2025
Report Date : 04/04/2025
Sample quantity : NA

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

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 1

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

Address of the Client : Vallam Vadagal I

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 : Vallam

Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0

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

ULR : TC1231025000016276F

Report No. : HECS/AP/081/150325

Sample ID No : 150325145

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 04/04/2025

Report Date : 04/04/2025

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	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	10.12	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	12.17	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	93.11	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	34.76	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	7.21	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.A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Vallam
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/081/150325/N
Sample ID No : 150325145
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 04/04/2025
Report Date : 04/04/2025
Sample quantity : NA

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

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadagal I

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 area

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

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

ULR : TC1231025000016452F

Report No. : HECSL/WT/037/150325

Sample ID No : 150325147

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	292.8	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	84.17	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	148.46	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	1450.0	IS 3025 Part-14: 2013	NA	NA
8	Fluoride as F	mg/l	0.42	APHA 23rd edition (Method 4500F- B , D): 2017	1.0	1.5
9	Iron as Fe	mg/l	0.034	IS 3025 (Part 53): 2003	1.0	No relaxation
10	Magnesium as Mg	mg/l	38.88	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
11	Nitrate as NO3	mg/l	1.87	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	-	7.11	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 4

ULR : TC1231025000016452F
Report No. : HECSL/WT/037/150325
Sample ID No : 150325147
Sampling Date : 15/03/2025

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

Address of the Client : Vallam Vadagal I

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 area

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : HECS-G/Micro/Sop/04

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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 (Flame emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	136.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
16	Sulphate as SO ₄	mg/l	239.96	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	822.0	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	0.057	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO ₃	mg/l	370.0	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 3 of 4

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

Address of the Client : Vallam Vadagal I

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 area

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

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

ULR : TC1231025000016452F

Report No. : HECSL/WT/037/150325

Sample ID No : 150325147

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05	1.5
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	%	43.34	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)	3.1	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.6	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 4 of 4

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

Address of the Client : Vallam Vadagal I

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 area

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

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

ULR : TC1231025000016452F

Report No. : HECSL/WT/037/150325

Sample ID No : 150325147

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date: 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
41	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
42	Total alkalinity as CaCO ₃	mg/l	240.0	IS 3025 (Part 23): 1986	200	600
43	Phosphate as PO ₄	mg/l	0.057	IS 3025 Part 31 Sec 1: 2022	NA	NA

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 area
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/037/150325N
Sample ID No : 150325147
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadagal I

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 : Vallam

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

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

ULR : TC1231025000016453F

Report No. : HECSL/WT/038/150325

Sample ID No : 150325148

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	683.2	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	172.34	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	400.85	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
6	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	2710.0	IS 3025 Part-14: 2013	NA	NA
8	Fluoride as F	mg/l	0.51	APHA 23rd edition (Method 4500F- B , D): 2017	1.0	1.5
9	Iron as Fe	mg/l	0.054	IS 3025 (Part 53): 2003	1.0	No relaxation
10	Magnesium as Mg	mg/l	38.88	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
11	Nitrate as NO3	mg/l	25.84	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	-	7.35	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in



TC-12310

Laboratory Services Division

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



TEST REPORT

Page : 2 of 4

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

Address of the Client : Vallam Vadagal I

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 : Vallam

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

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

ULR : TC1231025000016453F

Report No. : HECSL/WT/038/150325

Sample ID No : 150325148

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	24.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	280.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
16	Sulphate as SO ₄	mg/l	121.94	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method) (Turbidity Method)	200	400
17	Total dissolved solids	mg/l	1402.0	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	0.167	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
20	Total hardness as CaCO ₃	mg/l	590.0	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



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



TC-12310

Laboratory Services Division

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



TEST REPORT

Page : 3 of 4

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

Address of the Client : Vallam Vadagal I

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 : Vallam

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

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

ULR : TC1231025000016453F

Report No. : HECSL/WT/038/150325

Sample ID No : 150325148

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05	1.5
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 C ₆ H ₅ OH	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	%	49.39	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 NH ₃	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)	5.0	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 4 of 4

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

Address of the Client : Vallam Vadagal I

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 : Vallam

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

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

ULR : TC1231025000016453F

Report No. : HECSL/WT/038/150325

Sample ID No : 150325148

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
41	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
42	Total alkalinity as CaCO ₃	mg/l	560.0	IS 3025 (Part 23): 1986	200	600
43	Phosphate as PO ₄	mg/l	0.167	IS 3025 Part 31 Sec 1: 2022	NA	NA

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Vallam
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/038/150325N
Sample ID No : 150325148
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadagal I

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 : Santhavellore

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

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

ULR : TC1231025000016515F

Report No. : HECSL/WT/039/150325

Sample ID No : 150325149

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	292.8	IS 3025 Part 51: 2001	NA	NA
2	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
3	Calcium as Ca	mg/l	28.06	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
4	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
5	Chloride as Cl	mg/l	331.57	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	1640.0	IS 3025 Part-14: 2013	NA	NA
8	Fluoride as F	mg/l	0.44	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
9	Iron as Fe	mg/l	0.043	IS 3025 (Part 53): 2003	1.0	No relaxation
10	Magnesium as Mg	mg/l	14.58	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
11	Nitrate as NO3	mg/l	1.95	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
12	Odour		Agreeable	IS 3025 (Part 5): 2018	Agreeable	Agreeable
13	pH at 25°C	--	7.81	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 4

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

Address of the Client : Vallam Vadagal I

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 : Santhavellore

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

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

ULR : TC1231025000016515F

Report No. : HECSL/WT/039/150325

Sample ID No : 150325149

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	22.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
15	Sodium as Na	mg/l	260.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
16	Sulphate as SO4	mg/l	39.06	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	400
17	Total dissolved solids	mg/l	859.0	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	130.0	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 3 of 4

ULR : TC1231025000016515F
Report No. : HECSL/WT/039/150325
Sample ID No : 150325149
Sampling Date : 15/03/2025

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

Address of the Client : Vallam Vadagal I

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 : Santhavellore

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

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

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
26	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05	1.5
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 C ₆ H ₅ OH	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	%	78.04	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	2.2	IS 11624: 2019	0.2	1.0
35	Ammonia as NH ₃	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)	9.9	IS 11624 : 2019	NA	NA
37	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 4 of 4

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

Address of the Client : Vallam Vadagal I

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 : Santhavellore

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

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

ULR : TC1231025000016515F

Report No. : HECSL/WT/039/150325

Sample ID No : 150325149

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 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	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
41	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
42	Total alkalinity as CaCO ₃	mg/l	240.0	IS 3025 (Part 23): 1986	200	600
43	Phosphate as PO ₄	mg/l	BLQ(LOQ:0.002)	IS 3025 Part 31 Sec 1: 2022	NA	NA

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

End of Report



D. Anusuya
Lab Manager
Authorized Signatory

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Santhavellore
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/039/150325N
Sample ID No : 150325149
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date: 15/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadagal I

Group : Water

Sample Name : Surface Water

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Lake near Perinjambakkam

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

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

ULR : TC1231025000016384F

Report No. : HECSL/WT/040/150325

Sample ID No : 150325150

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Total alkalinity as CaCO ₃	mg/l	140.0	IS 3025 Part 23: 1986	NA
2	Bi carbonate	mg/l	170.8	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	32.06	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	NA
6	Chemical Oxygen Demand (COD)	mg/l	16.0	IS 3025 Part 58: 2006	250
7	Chloride as Cl	mg/l	123.72	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	6.1	IS 3025 Part 38: 1989	NA
10	Electrical Conductivity at 25°C	µS/cm	710.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.32	APHA 23rd edition Method 4500 F -B,D: 2017	2.0
12	Iron as Fe	mg/l	0.314	IS 3025 Part 53: 2003	3.0
13	Nitrate as NO ₃	mg/l	6.67	APHA 23rd edition Method 4500 NO ₃ B: 2017	NA



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 4

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

Address of the Client : Vallam Vadagal I

Group : Water

Sample Name : Surface Water

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Lake near Perinjambakkam

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

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

ULR : TC1231025000016384F
Report No. : HECSL/WT/040/150325
Sample ID No : 150325150
Sampling Date : 15/03/2025

Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
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	0.241	APHA 23rd edition Method 4500-P B,D: 2017	NA
17	pH at 25°C	-	7.16	IS 3025 Part 11: 2022 (Electrometric Method)	5.5 – 9.0
18	Total dissolved solids	mg/l	379.0	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	12.15	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	NA
22	Potassium as K	mg/l	7.0	IS 3025 Part 45: 1993	NA
23	Sodium as Na	mg/l	90.0	IS 3025 Part 45: 1983	NA
24	Sulphate as SO4	mg/l	8.98	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 3 of 4

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

Address of the Client : Vallam Vadagal I

Group : Water

Sample Name : Surface Water

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Lake near Perinjambakkam

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

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

ULR : TC1231025000016384F

Report No. : HECSL/WT/040/150325

Sample ID No : 150325150

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
27	Percent Sodium	%	58.33	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	5.0
31	Sodium Adsorption Ratio(SAR)	Square root of (millimole/litre)	3.42	IS 11624: 2019	NA
32	Total Hardness as CaCO3	mg/l	130.0	IS 3025 Part 21: 2009	NA
33	Total Phosphorous as P	mg/l	0.074	IS 3025 Part 31 Sec 1: 2022	NA
34	Total Suspended Solids	mg/l	6.0	IS 3025 Part 17: 1984	100
35	Turbidity	NTU	2.6	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : Lake near Perinjambakkam
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231025000016384F
Report No. : HECSL/WT/040/150325
Sample ID No : 150325150
Sampling Date : 15/03/2025

Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
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



D.Anusuya
Lab Manager
Authorized Signatory

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
Group : Water
Sample Name : Surface Water
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : Lake near Perinjambakkam
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/040/150325N
Sample ID No : 150325150
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Hexavalent Chromium as Cr ⁶⁺	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 4

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

Address of the Client : Vallam Vadagal I

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 : Theneri Lake

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

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

ULR : TC1231025000016385F

Report No. : HECSL/WT/041/150325

Sample ID No : 150325151

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
Discipline : Chemical					
1	Total alkalinity as CaCO ₃	mg/l	110.0	IS 3025 Part 23: 1986	NA
2	Bi carbonate	mg/l	134.2	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD) _@ 27°C For 3 days	mg/l	3.0	IS 3025 Part 44: 1993	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	20.04	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	NA
6	Chemical Oxygen Demand (COD)	mg/l	28.0	IS 3025 Part 58: 2006	250
7	Chloride as Cl	mg/l	59.38	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	481.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition Method 4500 F -B,D: 2017	2.0
12	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 53: 2003	3.0
13	Nitrate as NO ₃	mg/l	5.69	APHA 23rd edition Method 4500 NO ₃ B: 2017	NA



D.Anusuya

Lab Manager

Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 4

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

Address of the Client : Vallam Vadagal I

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 : Theneri Lake

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

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

ULR : TC1231025000016385F

Report No. : HECSL/WT/041/150325

Sample ID No : 150325151

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
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	0.063	APHA 23rd edition Method 4500-P B,D: 2017	NA
17	pH at 25°C	-	7.31	IS 3025 Part 11: 2022 (Electrometric Method)	5.5 - 9.0
18	Total dissolved solids	mg/l	229.0	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	13.37	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	NA
22	Potassium as K	mg/l	5.0	IS 3025 Part 45: 1993	NA
23	Sodium as Na	mg/l	40.0	IS 3025 Part 45: 1983	NA
24	Sulphate as SO4	mg/l	5.56	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 3 of 4

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

Address of the Client : Vallam Vadagal I

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 : Theneri Lake

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

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

ULR : TC1231025000016385F

Report No. : HECSL/WT/041/150325

Sample ID No : 150325151

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
27	Percent Sodium	%	43.66	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	0.21	IS 3025 Part 34 Sec 2: 2021	5.0
31	Sodium Adsorption Ratio(SAR)	Square root of (millimole/litre)	1.69	IS 11624: 2019	NA
32	Total Hardness as CaCO3	mg/l	105.0	IS 3025 Part 21: 2009	NA
33	Total Phosphorous as P	mg/l	0.019	IS 3025 Part 31 Sec 1: 2022	NA
34	Total Suspended Solids	mg/l	12.0	IS 3025 Part 17: 1984	100
35	Turbidity	NTU	5.4	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 4 of 4

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

Address of the Client : Vallam Vadagal I

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 : Theneri Lake

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

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

ULR : TC1231025000016385F

Report No. : HECSL/WT/041/150325

Sample ID No : 150325151

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 05/04/2025

Report Date : 05/04/2025

Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	Inland Surface water Standards (Schedule -VI)
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



D.Anusuya
Lab Manager
Authorized Signatory

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Theneri Lake
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/041/150325N
Sample ID No : 150325151
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 05/04/2025
Report Date : 05/04/2025
Sample quantity : 2 Litres

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

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 2

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

Address of the Client : Vallam Vadagal I

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 area

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000017055F

Report No. : HECS/PE/023/150325

Sample ID No : 150325152

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	25.93	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	42.82	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	18.20	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	%	30.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii) Silt	%	36.8	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii) Clay	%	32.4	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	8.21	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	78.9	IS 14767: 2000
11	Bulk Density	gm/cm ³	1.00	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.42	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.74	IS 2720 (Part 22) Section I 1972



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 2

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

Address of the Client : Vallam Vadagal I

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 area

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000017055F

Report No. : HECS/PE/023/150325

Sample ID No : 150325152

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	6.30	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	25.29	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	%	0.0209	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	15.75	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	7.87	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.5	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	18.8	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
Group : Pollution & Environment
Sample Name : Soil
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : Project area
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA : 2013

Report No. : HECS/PE/023/150325/N
Sample ID No : 150325152
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	5.43	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	107.81	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	6.74	Inhouse method
4	Infiltration Rate		1.3	Inhouse method

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 2

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

Address of the Client : Vallam Vadagal I

ULR : TC1231025000016999F

Report No. : HECS/PE/024/150325

Sample ID No : 150325153

Sampling Date : 15/03/2025

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 : Santhavellore

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	17.90	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	38.13	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	22.63	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	%	21.5	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii) Silt	%	45.8	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii) Clay	%	32.7	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.91	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	328.0	IS 14767: 2000
11	Bulk Density	gm/cm ³	1.00	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.27	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.47	IS 2720 (Part 22) Section I 1972



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 2

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

Address of the Client : Vallam Vadagal I

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 : Santhavellore

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000016999F

Report No. : HECS/PE/024/150325

Sample ID No : 150325153

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 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	14.35	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	%	0.0104	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	15.97	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	3.99	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.1	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	19.2	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Santhavellore
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA : 2013

Report No. : HECS/PE/024/150325/N
Sample ID No : 150325153
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	3.87	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02/07/ 2020
2	Manganese	mg/kg	141.74	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	7.21	Inhouse method
4	Infiltration Rate	-	1.4	Inhouse method

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 2

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

Address of the Client : Vallam Vadagal I

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 : Thathanur

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000017000F

Report No. : HECS/PE/025/150325

Sample ID No : 150325154

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	34.97	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	37.23	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	39.13	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i) Sand	%	10.4	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii) Silt	%	25.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii) Clay	%	64.2	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	6.45	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	1020.0	IS 14767: 2000
11	Bulk Density	gm/cm ³	0.98	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.27	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.47	IS 2720 (Part 22) Section 1 1972



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 2

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

Address of the Client : Vallam Vadagal I

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 : Thathanur

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC:1231025000017000F

Report No. : HECS/PE/025/150325

Sample ID No : 150325154

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 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	19.42	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	%	0.0218	IS 14684 Clause 4: 1999
18	Exchangable Calcium as Ca	mEq/L	3.87	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	11.63	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	%	20.4	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
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Thathanur
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA : 2013

Report No. : HECS/PE/025/150325/N
Sample ID No : 150325154
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	12.10	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	111.70	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	7.43	Inhouse method
4	infiltration Rate	-	0.5	Inhouse method

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in



TC-12310

Laboratory Services Division

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



TEST REPORT

Page : 1 of 2

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

Address of the Client : Vallam Vadagal I

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 : Alagoor

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000017001F

Report No. : HECS/PE/026/150325

Sample ID No : 150325155

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	38.16	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	41.13	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	50.02	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i) Sand	%	26.6	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii) Silt	%	40.6	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii) Clay	%	32.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	8.48	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	294.0	IS 14767: 2000
11	Bulk Density	gm/cm ³	0.99	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.33	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.58	IS 2720 (Part 22) Section I 1972



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 2 of 2

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

Address of the Client : Vallam Vadagal I

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 : Alagoor

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000017001F

Report No. : HECS/PE/026/150325

Sample ID No : 150325155

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	6.20	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	16.02	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	%	0.0108	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/l	11.68	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	11.68	FAO of United Nations, Rome Chapter - III 2008
20	Cation Exchange Capacity	mEq/100g	2.7	IS 2720 (Part 24) Clause 5 1976
21	Water Holding capacity	%	18.4	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
Lab Manager
Authorized Signatory

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

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

Address of the Client : Vallam Vadagal I

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 : Alagoor

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

Report No. : HECS/PE/026/150325/N

Sample ID No : 150325155

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	4.20	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	124.23	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	10.74	Inhouse method
4	Infiltration Rate	-	0.7	Inhouse method

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

End of Report



D.Anusuya

Lab Manager

Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in



Laboratory Services Division

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



TEST REPORT

Page : 1 of 2

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

Address of the Client : Vallam Vadagal I

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 : Vallam

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000017002F

Report No. : HECS/PE/027/150325

Sample ID No : 150325156

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	35.51	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	38.26	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	46.54	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	%	32.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii) Silt	%	48.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii) Clay	%	19.4	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	75.4	IS 14767: 2000
11	Bulk Density	gmv/cm ³	1.01	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.23	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.40	IS 2720 (Part 22) Section I 1972



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



TC-12310

Laboratory Services Division

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



TEST REPORT

Page : 2 of 2

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

Address of the Client : Vallam Vadagal I

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 : Vallam

Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0

Sampling Method & Plan : ICARDA : 2013

ULR : TC1231025000017002F

Report No. : HECS/PE/027/150325

Sample ID No : 150325156

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 07/04/2025

Report Date : 07/04/2025

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
14	Available Phosphorous as P	µg/g	5.68	FAO of United Nations, Rome Chapter - III 2008
15	Available Potassium	mEq/100g	18.58	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	%	0.0082	IS 14684 Clause 4 1999
18	Exchangable Calcium as Ca	mEq/L	11.53	FAO of United Nations, Rome Chapter - III 2008
19	Exchangable Magnesium as Mg	mEq/L	7.69	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	%	31.4	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



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

Laboratory Services Division

(Chemical & Biological Testing)

Recognized by CPCB (MoEF & CC)

BIS, FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal I
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 : Vallam
Environmental Condition : Temperature (°C) : 28.5 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA : 2013

Report No. : HECS/PE/027/150325/N
Sample ID No : 150325156
Sampling Date : 15/03/2025
Received Date : 15/03/2025
Commenced Date : 15/03/2025
Completed On : 07/04/2025
Report Date : 07/04/2025
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Moisture	%	2.76	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020
2	Manganese	mg/kg	92.91	HECS-G/INS/SOP/ 042
3	Iron	mg/kg	6.24	Inhouse method
4	Infiltration Rate	-	1.0	Inhouse method

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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



Laboratory Services Division

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



TEST REPORT

Page : 1 of 1

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

Address of the Client : Vallam Vadagal I

Group : Atmospheric Pollution

Sample Name : Ambient Noise Levels (Excluding vibration)

Sample Mark : Noise

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 30.8 | Humidity (%) : 53.0

Sampling Method & Plan : IS 9989:1981

ULR : TC1231025000016277F

Report No. : HECS/AP/082/150325

Sample ID No : 150325146

Sampling Date : 15/03/2025

Received Date : 15/03/2025

Commenced Date : 15/03/2025

Completed On : 04/04/2025

Report Date : 04/04/2025

Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	54.7	43.2
2	Santhavellore	53.2	41.9
3	Thathanur	52.9	40.8
4	Alagoor	54.7	43.9
5	Vallam	54.6	45.2

Noise Standards - CPCB:

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

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

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



D. Anusuya
Lab Manager
Authorized Signatory



CHIEF ENGINEER (O&M-II)



CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD



Lr.No:CMWSSB/C.E(O&M-II)/S.E(WWT&R)/45 TTRO-KOY / SIPCOT / 2020-21 Dated:10.04.2020

To
The Managing Director,
SIPCOT,
19-A, Rukmani Lakshmi Pathi Road,
Egmore,
Chennai - 600 008.

Sub: CMWSSB – C.E(O&M-II) – S.E(WWT&R) – “Design, Build and Operate for 15 years (DBO) a 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) Plant at Koyambedu including supply, laying and maintenance of M.S. transmission main for conveying product water to various SIPCOT industries situated at Irungattukottai, Sriperumbudur and Oragadam” – Works Completed in all aspects - Inaugurated and Commissioned by the Hon’ble Chief Minister of Tamilnadu on 29.11.2019 – Supply of TTRO water to the M/s SIPCOT Industries Ltd located at Irungattukottai, Pillaipakkam, Vallamvadagai, Sriperumbudur and Oragadam – Commenced from 18.12.2019 – Security deposit to be remitted –Requested – Reminder – Reg.

Ref: Lr.No. CMWSSB / C.E(O&M-II) / S.E(WWT&R) / 45 TTRO-KOY / SIPCOT / 2019-20, Dated: 06.12.2019, 15.12.2019 & 24.01.2020.

The work of “Design, Build and Operate for 15 years (DBO) a 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) Plant at Koyambedu including supply, laying and maintenance of M.S. transmission main for conveying product water to various SIPCOT industries situated at Irungattukottai, Sriperumbudur and Oragadam” has been completed in all aspects and has been inaugurated & commissioned by the Hon’ble Chief Minister of Tamilnadu on 29.11.2019. The supply of TTRO product water to the M/s SIPCOT industries located at Irungattukottai, Pillaipakkam, Vallamvadagai, Sriperumbudur and Oragadam from Koyambedu TTRO plant was commenced from 18.12.2019 onwards.

In this connection, it is submitted that, the request for remittance of security deposit for an amount of Rs.2,045 Crores towards the supply of TTRO product water to M/s SIPCOT industries from Koyambedu TTRO plant has been made since 06.12.2019 and further reminders were made vide under references cited.

In this connection, it is submitted that the requisite security deposit amount has not been remitted till date, inspite of continuous follow up with officials of M/s SIPCOT.

As CMWSSB is facing financial crunch for the past more than 5 years with the deficit of about Rs.300 Crores, it is very difficult to manage to remit the electricity consumption charges of about Rs.1.5 Crores per month towards operation of TTRO plant & Intermediate storage Pumping Stations.

Hence it is requested to cause necessary instructions to the officials to expedite the remittance of security deposit of Rs.2,045 Crores immediately through RTGS/NEFT.

This is submitted for favour of information and requested for early action in this regard.

CHIEF ENGINEER (O&M-II)

பாசனம் - ஸ்கீமா மாவட்டம் - திருப்பெரும்புளூர் வட்டம் - இலங்கைக்கு
கோட்டை கிராமம் - அங்காட் தொழில் வளாகத்தில் அமைந்திருக்கிற தொழிற்சாலை
எனக்கு - செயற்பரம்பாக்கம் ஏரியிலிருந்து ஓட்டை மறிமம் நிலங்களுக்கு நீர்ப்பாசனம்
போக எஞ்சிய நீரில் 5 மில்லியன் கன அடங்கு நீர் - வழங்குதல் - ஆணை வெளியிடப்
படுகிறது.

பொதுப்பணி (புதுப்பிப்பு)

அரசு ஆணை (நிலை) : 134

தாள்: 31.3.1997

பலக்கலம்:

1. மேலாண்மை இயக்குநர், அங்காட் தேர்வுக் கமிட்டி என். 1026/96
தாள்: 2.9.1996.
2. தலைமைப்பொறியாளர், நீர்வள ஆதார அமைப்பு, சென்னை மண்டலம்,
சிவசுந்தரா ஓட்டை வழங்கல் குறை கமிட்டி என். பி.பி. 1/5250/96,
தாள்: 24.12.1996.

பாரிஸ் 1ல் கட்ட கமிட்டியில் அங்காட், மேலாண்மை இயக்குநர் இலங்கை
கோட்டை கிராமம் அங்காட் தொழில் வளாகத்திற்கு, அங்கு அமையவுள்ள - உதட்டாய
காரி தொழிற்சாலைக்கு தேவையான 1.1 மில்லியன் கன அடங்கு நீர் உட்பட
மொத்தம் சுமார் 10 மில்லியன் கன அடங்கு நீர் தேவை என்ற கோட்டுக் கொண்டுள்ளார்.

2. பாரிஸ் 2ல் கட்ட கமிட்டியில் தலைமைப்பொறியாளர் நீர் வள
ஆதார அமைப்பு சென்னை மண்டலம் மறிமம் சிவசுந்தரா ஓட்டை வழங்கல் திட்டம்,
கட்டிட காலக்காலில் செயற்பரம்பாக்கம் ஏரியில் உள்ள நீர் நிலை ஒரே சீராக
இருந்ததில்லை என்பதும், நீரின் கொள்ளளவு 1980ம் ஆண்டு 711 மில்லியன் கன அடியாக
வும், 1992ம் ஆண்டு 485 மில்லியன் கன அடியாகவும் 1996ம் ஆண்டு 2401
மில்லியன் கன அடியாகவும் இருந்ததெனவும் குறிப்பிட்டுள்ளார். மேலும் பதிவு செய்யப்
பட்டுள்ள 13,223 ஏக்கர் ஆய்க்கட்டுகளில் தற்போது விவசாயம் செய்யப்பட்டு வரும்
9800 ஏக்கர் நிலங்களுக்கு நீர்பாசனம் செய்தாக வேண்டும் என்ற நிலை உள்ளது
என்பதும் குறிப்பிட்டுள்ளார். மேலும் இத்தொகுதி சென்னை மாநகருக்கு ஆதரவாக
வசதியும் செயற்பரம்பாக்கம் ஏரியிலிருந்து வழங்க வேண்டியிருப்பதால் நீர் இருப்பை
குறிப்பில் கொண்டு தாள் தனக்கீர் வழங்க வேண்டும் என்ற குறிப்பிட்டுள்ளார்.

3. தலைமைப்பொறியாளர் (சென்னை மண்டலம் மறிமம் சிவசுந்தரா
ஓட்டை வழங்கல் திட்டம்) டி கமிட்டியின் கமிட்டியின் அங்காட் தொழில்
வளாகத்திற்குச் செயற்குறிப்பை அரசு பரிசீலித்தது.

செயற்பரம்பாக்கம் ஏரியில் நீர் இருப்பிற்கான, பதிவு செய்யப்
பட்ட ஆய்க்கட்டு பகுதிகளுக்கான தேவையான தனக்கீர் மறிமம் சென்னை நகருக்கு
ஓட்டைக்குத் தேவையான ஓட்டை பூர்த்தி செய்த படி செயற்பரம்பாக்கம்



/உயிர்பா/
புதுப்பிப்பு அமைப்பு
கமிட்டி அங்காட் தொழில் வளாகம்.

Handwritten signature and initials.

Handwritten signature and date '22/4'.

Handwritten text 'Madam, Seenu chian'.

①
AEE.
Pl. Send a copy of this to
SIPWT, GMA (Tirumala)
for information.
22/4/97

ஏற்பட்டது. நான் ஒட்டுக்கு 5 பீஸ்கள் என கூற சிப்காட் தொழில்
வளாகத்திற்கு வழங்குவதற்கு அரசு உடனடி நடவடிக்கை மேற்கொண்டது. மேற்கண்ட வளாகத்தின்
நிறுவனத்திற்கும், சிப்காட் தொழில் வளாகத்திற்கும் பொதுப்பணித்துறையின் புதிய
நிபந்தனைகளுக்கு உட்பட்டு ஒப்பந்தத்தில் கையொப்பப்பட்ட பீஸ்களை நீர்
வழங்க வேண்டும் எனத் தலைமைப்பொறுப்பாளர், சென்னை மண்டலம், மற்றும்
சிஞ்சுதா குடிநீர் வழங்கல் திட்டம் அறிவித்தப்படுகிறது.

(ஆளுநர் தலைப்பில்)

செ.பி. குப்பா,
அரசின் செயலர்.

பெயர்:

தலைமைப்பொறுப்பாளர்,
நீர்வள ஆதார அமைப்பு, சென்னை.5.

தலைமைப்பொறுப்பாளர்,
நீர்வள ஆதார அமைப்பு,
சென்னை மண்டலம் மற்றும் சிஞ்சுதா குடிநீர்
மற்றும் வழங்கல் துறை,
மேலாண்மையுரித்தார்,
தமிழ்நாடு தொழில் வளர்ச்சி, கழகம்,
19 ஏ. ரூ.மணி ஸ்கீம் பதி ரோடு,
எலும்புர், சென்னை.8.
கொண்ட சட்டியர், அண்ணா மாளிகை.

நகல்:

தொழில்நுறை சென்னை.5
நகராட்சி நிர்வாகம் மற்றும் குடிநீர் வழங்கல் துறை,
சென்னை.5.

/ஆளுநர்/அப்பப்பப்பப்பப்ப/

பி.சி.சுப்பிரமணியன்
பிரதி செயலர் 3/4/97

ENVIRONMENTAL MANAGEMENT CELL

1. INTRODUCTION:

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

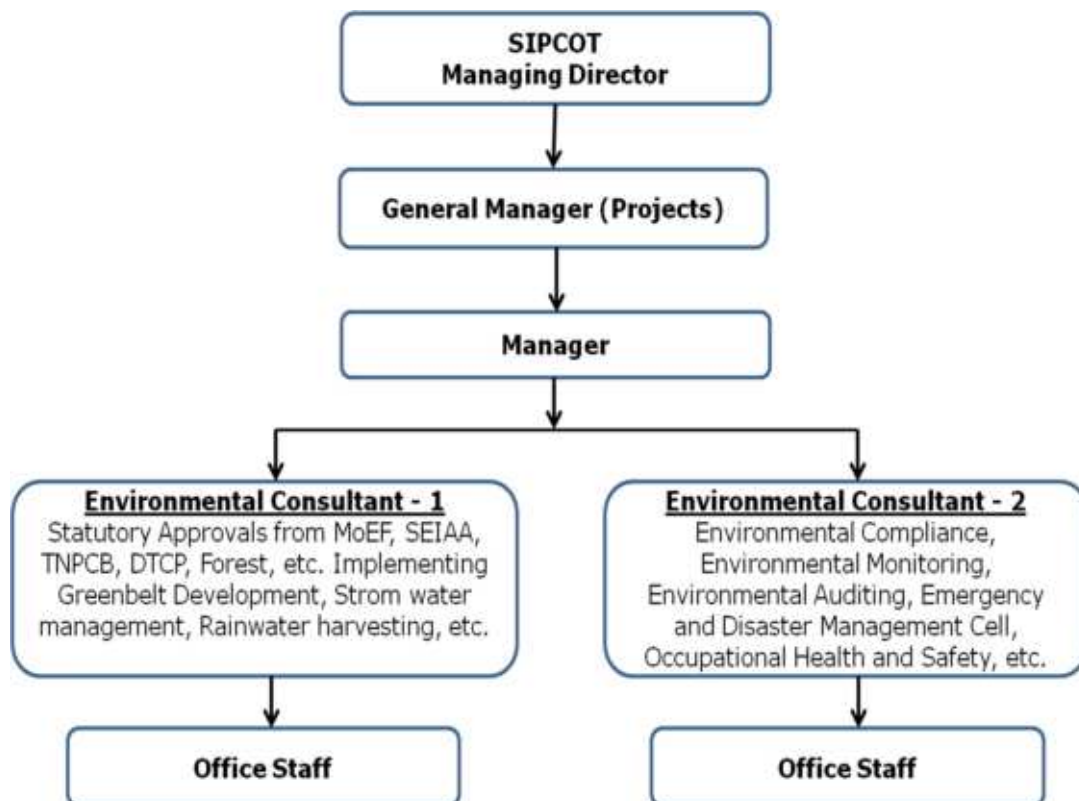


Figure - 1 Organogram for Environmental Management Cell

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

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

Table – 1: Roles and responsibilities of EMC

S.No.	Designation	Responsibilities
1	Managing Director	<ul style="list-style-type: none"> ➤ 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	<ul style="list-style-type: none"> ➤ 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	<ul style="list-style-type: none"> ➤ 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)	<ul style="list-style-type: none"> ➤ 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.



**SIPCOT INDUSTRIAL PARK, VALLAM-VADAGAL,
SRIPERUMBUDUR TALUK,
KANCHEEPURAM DISTRICT**

Annexure-6

ENVIRONMENTAL CLEARANCE

Environmental Clearance has been obtained for the proposed SIPCOT Industrial Park at Vallam, Vadagal and Budanur villages, Sriperumbudur Taluk, Kancheepuram District from the State Level Environment Impact Assessment Authority, Tamil Nadu vide their Lr.No.SEIAA/TN/F-660/EC/8(b)/198/2012, dt.20.08.2013

The contents of the Environmental Clearance can be viewed in the SIPCOT website www.sipcot.com and also in the SEIAA website www.seiaa.tn.gov.in. Further, the copy of the Environmental Clearance could be obtained from the Head Office of Tamil Nadu Pollution Control Board (TNPCB).

**Principal Secretary/
Chairman and Managing Director,
SIPCOT,
19-A, Rukmani Lakshmipathy Road,
Egmore, Chennai-600 008.**

DIPR/1061/DISPLAY/2013

DIRECTOR



**சிப்காட் தொழிற்பூங்கா, வல்லம் - வடகால்,
திருபெரும்புதூர் தாலுக்கா, காஞ்சிபுரம் மாவட்டம்**

சுற்று சூழல் இசைவானை

மாநில சுற்று சூழல் தாக்க மதிப்பீட்டுக் குழுவும், தமிழ்நாடு கழகம் என. SEIAA/TN/F-660EC/8(b)/198/2012, தேதி 20.08.2013 வழியாக காஞ்சிபுரம் மாவட்டம், திருபெரும்புதூர் தாலுக்கா, வல்லம், வடகால் மற்றும் புதனூர் கிராமங்களில் உத்தேசிக்கப்பட்டுள்ள தொழிற்பூங்காவிற்கு சுற்று சூழல் இசைவானை வழங்கியுள்ளது. இவ்விசைவானையின் முழுவிவரத்தை சிப்காட் இணைய தளமான www.sipcot.com மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டுக் குழுமத்தின் இணையதளமான www.seiaa.tn.gov.in ஆகியவற்றில் காணலாம். மேலும், இசைவானையின் நகலினை தமிழ்நாடு மாசு கட்டுப்பாட்டு வாரியத் தலைமை அலுவலகத்தில் பெறலாம்.

**முதன்மை செயலாளர்/
தலைவர் மற்றும் நிர்வாக இயக்குநர்,
சிப்காட்,
19-ஏ, உருக்குமணி இலட்சுமிபதி சாலை,
ஏழம்பூர், சென்னை - 600 008.**

செ.ம.தொ.இ/1061/வரைகலை/2013

The New Indian
Express
dt 24/8/2013

சுற்று சூழல்
24/8/2013

Submitted

24/8/13

24/8/13

24/8/13
ps/cen

Post EC HYCR report - reg - con: x WhatsApp x 19, Compliance Report - Vaniam: x Welcome to PARIVESH x SIPCOT - State Industries Promot: x

sipcotweb.tn.gov.in/Compliance_Report

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

COMPLIANCE REPORTS

S.NO.	TITLE	DOWNLOAD
1	Compliance Report - Thervoy Kandigai for Dec 2024	Download
2	Compliance Report - Pillaipakkam for Dec 2024	Download
3	Compliance Report - Vallam Vadagal I for Dec 2024	Download
4	Compliance Report - Vaipur Mathur for Dec 2024	Download
5	Compliance Report - Aerospace Park for December 2024	Download
6	Compliance Report - Cheyyar for December 2024	Download
7	Compliance Report - Manaparai for December 2024	Download
8	Compliance Report - Tindivanam for December 2024	Download
9	Compliance Report - Manallur for December 2024	Download
10	Compliance Report - Vallam Vadagal II for Dec 2024	Download
11	Compliance Report - Thoothukudi for December 2024	Download
12	Compliance Report - Nemili for Dec 2024	Download
13	Compliance Report - Mambakkam for Dec 2024	Download
14	Compliance Report - Marudhandapalli for Dec 2024	Download
15	Compliance Report - Theni for Dec 2024	Download
16	Compliance Report - A. Sathapur for Dec 2024	Download

ENQUIRE NOW

16:58 27-03-2025

Ref.No.P&SP/Vallam-Vadagal/2012

Dt.23.08.13

The Block Development Officer,
Sriperumbudur Panchayat Union,
Sriperumbudur Taluk,
Kancheepuram District.

Sir,

Sub: Establishment of SIPCOT Industrial Park at Vallam-Vadagal, Sriperumbudur Taluk, Kancheepuram District - Environmental Clearance from SEIAA - copy forwarded - reg.

Ref: Letter No.SEIAA/TN/F-660/EC/8(b)/198/2012, dt.20.8.13
from State Level Environment Impact Assessment
Authority.

The State Level Environment Impact Assessment Authority (SEIAA), Tamil Nadu has accorded Environmental Clearance for our proposal of establishing an Industrial Park at Vallam, Vadagal and Budanur villages Sriperumbudur Taluk, Kancheepuram District. We herewith enclose a copy of the Clearance letter received from SEIAA, Tamil Nadu.

Yours faithfully,


for **Principal Secretary/
Chairman and Managing Director.**

Encl: As above



S I P C O T	DESPATCH	
	23 AUG 2013	
	HA	
	S.L. No.	Signature

S.NO.	NAME OF THE COMPLEX/ PARK / GROWTH CENTRE	NAME OF THE DISTRICT	ENVIRONMENTAL CLEARANCE
18	Cheyyar – II	Thiruvannamalai	Download
19	Oragadam	Kancheepuram	Download
20	Vaipur Mathur	Kancheepuram	Download
21	Thervoykandigai	Thiruvallur	Download
22	Pillaipakkam	Kancheepuram	Download
23	Vallam Vadagal – I	Kancheepuram	Download
24	Aerospace Park	Kancheepuram	Download
		Kancheepuram	

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

Date: 30.09.2024

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

(By RPAD)

Sir,

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

Ref: SEIAA EC Letter No. SEIAA/TN/F-660/EC/8(b)/198/2012 dated 20.08.2013.

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

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/



ASSISTANT GENERAL MANAGER (P-IV)

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

SIPCOT – VALLAM VADAGAL PHASE - I**MONITORING PHOTOGRAPHS****AMBIENT AIR QUALITY MONITORING PHOTOS****PROJECT SITE****SANTHAVELLORE****ALAGOOR**

VALLAM



THATHANOOR



GROUND WATER SAMPLING PHOTOS

PROJECT AREA



VALLAM



SANTHAVALLORE



SURFACE WATER SAMPLING PHOTOGRAPH

THENNERI LAKE



PERINJAMBAKKAM LAKE



SOIL SAMPLING PHOTOGRAPH

PROJECT AREA

SANTHAVELLORE



ALAGOOR

VALLAM



THATHANOOR



NOISE MONITORING PHOTOGRAPH

PROJECT AREA



SANTHAVELLORE



ALAGOOR



VALLAM



THATHANOOR



STORM WATER DRAIN PHOTOGRAPH



GREENBELT PHOTOGRAPH

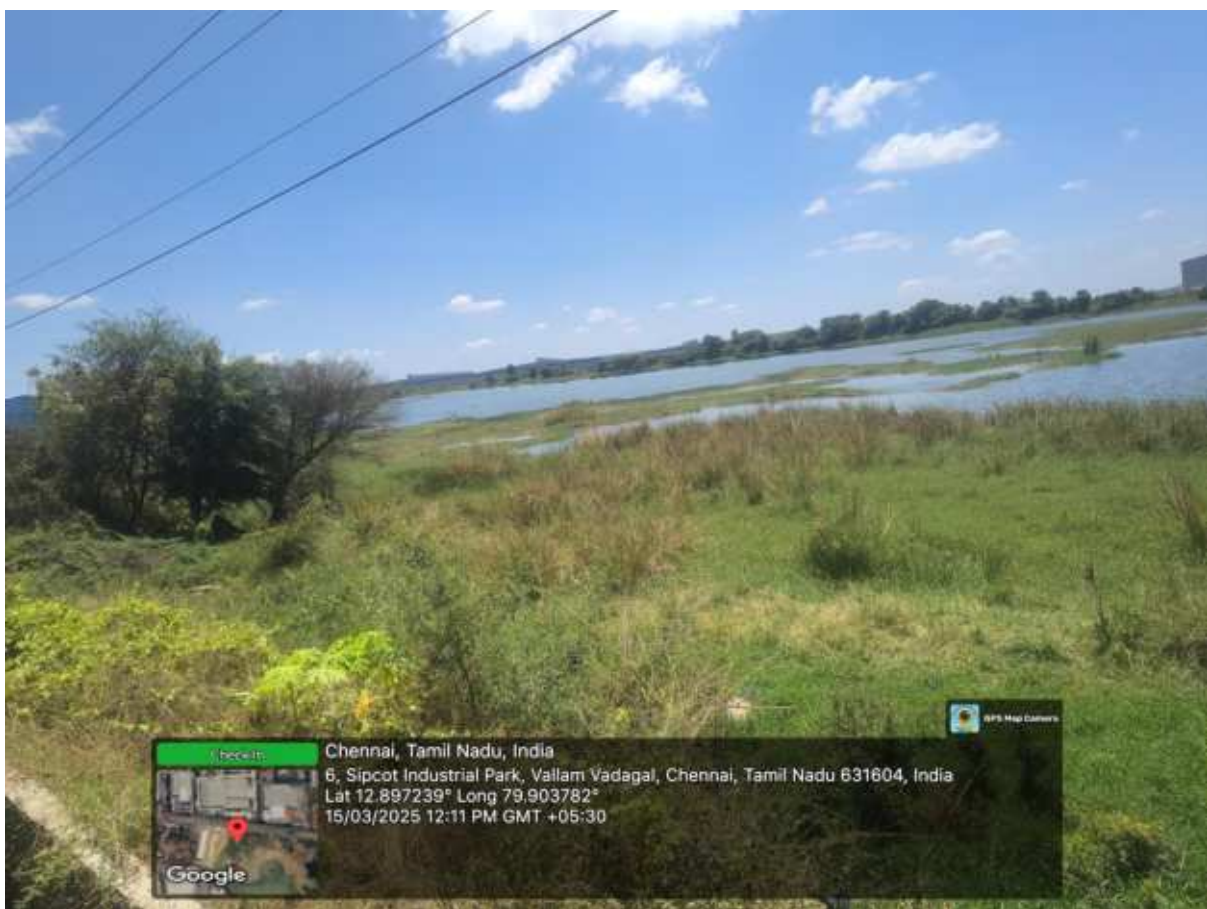




LED LIGHT PHOTOGRAPH



WATER BODIES PHOTOGRAPHS



FIRE PROTECTION EQUIPMENT





FIRST AID ROOM



MEDICAL CAMP PHOTOGRAPHS

