

# **HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT**

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

*for*

**“Development of Industrial Park”**

*at*

**Vaipur, Mathur, Perinjambakkam Villages, Sriperumpudur  
Taluk, Kancheepuram District, Tamil Nadu.**

**EC OBTAINED Vide Letter No. SEIAA/TN/F-662/EC/8(b)/385/2012 dt.01-04-2015**

**Submitted by**



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

**19/A, Rukmani Lakshmipathy Road , Egmore, Chennai- 600008 .**

**Prepared by**



**ENVIRONMENTAL CONSULTANT**

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

**November 2024**

## TABLE OF CONTENTS

S.No	Table of Contents	Page No
1.	Project details	3
2.	Location map	4
3.	Site photographs	5
4.	Six month environmental clearance statement	7
5.	Environmental Monitoring Details	15
	5.1 Ambient air quality monitoring	15
	5.2 Ambient noise level monitoring	15
	5.3 Soil Quality monitoring	15
	5.4 Ground water quality monitoring	15
	5.5 Surface water quality monitoring	15
6.	Conclusion	16

## LIST OF ANNEXURE

S. No	List of Annexure
Annexure 1	Copy of Environmental Clearance
Annexure 2	Consent To Establishment from TNPCB
Annexure 3	CMWSSB Approval letter
Annexure 4	Environmental Monitoring Reports
Annexure 5	Newspaper Advertisement
Annexure 6	Screenshot of EC copy uploaded in website
Annexure 7	Screenshot of compliance report uploaded in Website
Annexure 8	Environment Cell Roles and Responsibilities
Annexure 9	Acknowledgement from TNPCB on submission of Form V
Annexure 10	Environmental Monitoring Photos

## 1. PROJECT DETAILS

<b>Name of the Project</b>	Vaipur Mathur Industrial Park
<b>Name of the Proponent</b>	State Industries Promotion Corporation of Tamil Nadu Ltd
<b>Location</b>	Vaipur, Mathur and Perinjambakkam village, Sriperumpudur Taluk, Kancheepuram District, Tamil Nadu.
<b>EC. No</b>	<b>SEIAA/TN/F-662/EC/8(b)/385/2012 Dated: 01.04.2015</b> (Enclosed as <b>Annexure-1</b> )
<b>Total Plot Area</b>	616 acres
<b>Water Requirements</b>	Water requirement during Operation Phase - 4.5 MLD met from CMWSSB. CMWSSB letter is enclosed as Annexure 3.
<b>Project Cost</b>	Rs.126.50 Crores

## 2. LOCATION MAP



### 3. SITE PHOTOGRAPHS





16-09-2024



16-09-2024



16-09-2024

## 4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

### **PART A- SPECIFIC CONDITIONS**

#### **I. Construction Phase**

S.NO	EC CONDITIONS	STATUS OF COMPLIANCE
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.	Consent to Establishment has been obtained from Tamil Nadu Pollution Control Board. Copy is enclosed as <b>Annexure -2</b> .
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.	<b>Condition Noted.</b>
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.	<b>Condition Noted.</b>
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 all the individual industries to ensure the degree of treatment and also to ensure complete compliance of the standards prescribed by the TNPCB.	<b>Condition Noted.</b>  All the member industries will be mandated to adopt Zero Liquid Discharge system and to handle the domestic wastewater as per the TNPCB / CPCB Norms.

v.	SIPCOT shall mandated that the member units should be commissioned only after securing water supply connection from the CMWSSB by SIPCOT.	<b>Condition complied.</b> Water supply letter from CMWSSB is enclosed as <b>Annexure- 3.</b>
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SIPCOT shall adhere the following conditions and also mandated to all its member units to adhere the conditions

S.NO	EC CONDITIONS	STATUS OF COMPLIANCE
1.	The excavated earth / construction debris must be used within the premises only.	Condition is being complied. All member units will be advised to comply with.
2.	The solid waste in the form of excavated earth excluding the top soil scientifically utilized for approach road and peripheral roads constructions.	Condition is being complied. All member units will be advised to comply with.
3.	All the top soil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Condition is being complied. All member units will be advised to comply with.
4.	Disposal of other construction debris during construction phase should not create any adverse effect on the neighbouring 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.	<b>Condition noted.</b> All the member units will be instructed to follow applicable rules and guidelines.
5.	Adequate potable drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	<b>Condition is being complied.</b> All member units will be advised to comply with.
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.	<b>Condition is being complied.</b> All member units will be advised to comply with.
7.	For disinfection of waste-water, system using ultra violet radiation shall be adopted.	<b>Condition noted.</b> All the member units will be instructed to follow applicable rules and guidelines.
8.	For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.	<b>Condition noted.</b> All the member units will be instructed to follow applicable rules and guidelines.
9	The e - waste generated shall be handed over to the authorized recyclers.	<b>Condition noted.</b> All the member units will be instructed to follow applicable rules and guidelines.
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.	<b>Condition noted.</b> All member units will be advised to comply with.



11.	A First Aid Room shall be provided with qualified personnel during operation of the project.	All member units will be advised to comply with.
12.	Disposal of muck, generated during the construction phase should be so managed as not to create any adverse effect on the neighbouring areas and communities and 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.	<b>Condition noted.</b> All member units will be advised to comply with.
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.	<b>Condition is being complied.</b> Soil and ground water report is enclosed as <b>Annexure - 4.</b>
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.	<b>Condition Noted.</b> All the member units will be instructed to follow applicable rules and guidelines.
15.	No ground water shall be drawn with in SIPCOT area for construction period.	<b>Condition noted.</b>
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.	<b>Condition noted.</b> All the member units will be instructed to follow applicable rules and guidelines.
17.	Ambient air and noise level 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 Tamil Nadu Pollution Control Board by recording base-lined ate 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.	<b>Condition is being complied.</b> Air and Noise monitoring report is enclosed as <b>Annexure- 4.</b>
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.	All the member units will be instructed to follow applicable rules and guidelines.
19.	Ready mixed concrete must be used in building construction.	<b>Condition noted.</b> All member units will be advised to comply with.
20.	Storm water control and its reuse shall be as	<b>Condition noted.</b> All member units will

	per CGWB and BIS standards for various applications.	be advised to comply with.
21.	Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.	<b>Condition noted.</b> All member units will be advised to comply with.
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.	<b>Condition noted.</b> All member units will be advised to comply with.
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.	<b>Condition noted.</b> All member units will be advised to comply with.
24.	Roof should be designed to meet prescriptive requirement of Energy Conservation Building Code (ECBC) by the use of appropriate thermal insulation material.	All the member units will be instructed to follow applicable rules and guidelines.
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.	All the member units will be instructed to follow applicable rules and guidelines.
26.	Proper approach road for fire fighting vehicles and for rescue operations in the event of emergency shall be provided.	<b>Condition is being complied</b> and all member units will be advised to comply with.
27.	Adequate fire protection equipments and rescue arrangements should be made.	<b>Condition will be complied</b> and all member units will be advised to comply with.
28.	A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments/ operations.	All member units will be advised to comply with.
29.	Design of buildings should be in conformity with the Seismic Zone Classification.	All the member units will be instructed to follow applicable rules and guidelines.
30.	All Energy Conservation Building Codem (ECBC) norms shall be adopted.	All the member units will be instructed to follow applicable rules and guidelines.
31.	Rubber padding to absorb noise while loading & unloading operation should be provided.	<b>Condition noted.</b> All member units will be advised to comply with.
32.	The probable date of commissioning of the project supported with necessary bar charts shall be furnished to the SEIAA.Tamil Nadu	<b>Condition noted.</b>
33.	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 March2014.	<b>Condition complied.</b>

## **PART –B GENERAL CONDITIONS (Construction and Operation stage)**

<b>S.NO</b>	<b>EC CONDITIONS</b>	<b>STATUS OF COMPLIANCE</b>
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.	<b>Condition is being complied.</b>
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	<b>Condition noted.</b> There is no change in scope of the project.
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.	<b>Condition noted.</b>
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 / 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	All the member units will be mandated to obtain necessary approvals / clearance.
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 Chennai.	<b>Condition complied.</b> Newspaper Advertisement copy is attached as <b>Annexure-5.</b>
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.	<b>Condition noted.</b>
vii.	The proponent shall upload the status of compliance of the stipulated EC conditions,	<b>Condition is being complied.</b> Screenshot of compliance report including

	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, SO <sub>2</sub> , NO <sub>x</sub> (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.	monitoring results uploaded in the website is enclosed as <b>Annexure -7</b> .
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 /representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the proponent.	<b>Condition complied.</b> The clearance letter has been uploaded in SIPCOT website and the screenshot is enclosed as <b>Annexure-6</b> .
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	<b>Condition will be complied.</b> All member units will be advised to comply with.
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.	<b>Condition will be complied.</b> All member units will be advised to comply with.
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.	<b>Condition complied.</b> A 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 Roles and responsibilities are enclosed as <b>Annexure – 8</b> .
xii.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted	<b>Condition noted.</b>

	for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Chennai.	
xiii.	The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	<b>Condition noted.</b>
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 Chennai, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board.	<b>Condition is being complied.</b>
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, Chennai by e-mail.	<b>Condition is being complied.</b> Acknowledgement form TNPCCB on submission of Form V is enclosed as <b>Annexure - 9.</b>
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.	<b>Condition noted.</b>
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.	<b>Condition noted.</b> All the member units will be instructed to obtain all necessary clearances / approvals.
viii.	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	<b>Condition noted.</b>
xix.	The SEIAA, TN may cancel the	<b>Condition noted.</b>

	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.	<b>Condition noted.</b>
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 Hon'ble Supreme Court of India / Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.	<b>Condition noted.</b>
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.	<b>Condition noted.</b> No appeal lies against this Environmental Clearance.

## **5. ENVIRONMENTAL MONITORING DETAILS**

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

### **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 April 2024 to September 2024 is enclosed as **Annexure - 4**.

### **5.2 Ambient Noise level monitoring**

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of April 2024 to September 2024. is enclosed as **Annexure - 4**.

### **5.3 Soil quality monitoring**

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

### **5.4 Ground water quality monitoring**

The Ground water was collected and tested for various water quality parameters during the period of April 2024 to September 2024. The test report of Ground water collected and analyzed is enclosed as **Annexure- 4**.

### **5.5 Surface water quality monitoring**

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

## 6. CONCLUSION

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

  
**Dr. RAJKUMAR SAMUEL**  
Director Technical

**Name: Dr. Rajkumar Samuel**

**Designation: Director Technical**

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



# **Annexure**

**STATE LEVEL ENVIRONMENT  
IMPACT ASSESSMENT  
AUTHORITY,  
TAMILNADU**



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

**Thiru. V. Thangavelu, I.A.S. (Retd.)**  
Chairman

**Thiru V. Haridass**  
Member

**Dr. H. Malleshappa, I.F.S**  
Member Secretary

**Letter No. SEIAA/TN/F-662/EC/ 8(b)/385/2012 dt .01.04.2015**

To

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

Sir,

Sub: SEIAA, TN - Environmental Clearance - Proposed project of **VAIPUR MATHUR Industrial Park** over an extent of **249.28.63 Ha (616.00 ACRES)** in S.F.nos.15,16,17,18,56pt, 61pt, 63, 165pt, 166, 167 pt, 168, 169, 170, 171 pt, 172, 173, 174pt, 181, 222, 227, 228, 229, 230, 231, 233, 234, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260., of Vaipur village, S.F.nos. 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 305, 306, 307, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331., of Mathur village and in S.F.nos. 201/2,202,204, 205, 206, 207, 208pt of Perinjambakkam village, 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

This has reference to your application dated 7.12.2012 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.15,16,17,18,56pt, 61pt, 63, 165pt, 166, 167 pt, 168, 169, 170, 171 pt, 172, 173, 174pt, 181, 222, 227, 228, 229, 230, 231, 233, 234, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260., of Vaipur village, S.F.nos. 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 305, 306, 307, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325,

## ENVIRONMENTAL CLEARANCE

326, 327, 328, 329, 330, 331., of Mathur village and in S.F.nos. 201/2,202,204, 205, 206, 207, 208pt of Perinjambakkam village, Sriperumpudur taluk, Kancheepuram district as per the application submitted. The total area of development is **249.28.63 Ha (616.00 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 TNPCB, 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, employment, expert, 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. 126.50 Crores. The breakup of the total area is tabulated as below:

S.No.	Area Breakup	Area in acres
1	C Serious industries	393.28
2	D Serious industries	123.18
3	Roads	32.40
4	Panchayath temple	3.36
5	OSR/ Green belt development	163.7817.61
	Total	6160.00 acres

Water requirement of the project during construction phase is 5,00,000 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 4.5 MLD which will be met from CMWSSB.

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 allotted 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.

## ENVIRONMENTAL CLEARANCE

The initial requirement of power is 20 MW reported as. No DG ets will be used during construction period, as per the proposals

**The proponent also furnished affidavit in a Non judicial stamp paper stated that,**

1. We commit to the SEIAA that the fresh water requirement(4.5 MLD) for the proposed project will be met from Chennai Metropolitan Water Supply and Sewarage Board
2. The allottee industries will be mandated to ensure Zero liquid discharge as per TNPCB norms and the same will be monitored by concern Project Officer of SIPCOT.

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.

In this proposal, no 'A' or 'B' category industry has been proposed to be housed and also the development area (249.28.63 ha) is more than 50 ha and hence, this project is considered as 8 (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 in its 60<sup>th</sup> SEAC meeting held on 25.09.2014 to the SEIAA, Tamil Nadu to grant Environmental Clearance to this project.

The project was considered by the SEIAA-TN in its 124<sup>th</sup> meeting held on 27.03.2015 in detail and decided to grant EC. Accordingly, SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006, as amended with validity for five

**ENVIRONMENTAL CLEARANCE**

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 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 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.

ENVIRONMENTAL CLEARANCE

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 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.

ENVIRONMENTAL CLEARANCE

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 with in 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 level 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 date 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.
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.

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ENVIRONMENTAL CLEARANCE

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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.
33. 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 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



ENVIRONMENTAL CLEARANCE

- supply to their patta lands, but also should have free access to their respective lands.
- vi) 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.
  - 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 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.
  - 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

## ENVIRONMENTAL CLEARANCE

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)**

## ENVIRONMENTAL CLEARANCE

- i) It is mandatory for the Project proponent to furnish to the SEIAA, Half yearly compliance report in Hard and Soft copies on 1<sup>st</sup> June and 1<sup>st</sup> 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 Chennai.
- 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

ENVIRONMENTAL CLEARANCE

to the Regional Office of MoEF, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (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 /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 Chennai.
- xiii) The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- xiv) The project proponent shall submit six monthly reports on the

## ENVIRONMENTAL CLEARANCE

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 Chennai, 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 31<sup>st</sup> 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, Chennai 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

ENVIRONMENTAL CLEARANCE

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 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.

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-600 032.
5. The Additional Principal Chief Conservator of Forests, Regional Office (SZ),  
34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road,

ENVIRONMENTAL CLEARANCE

Nungampakkam, Chennai – 34.

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.





**TAMIL NADU POLLUTION CONTROL BOARD**

Category of the Industry :

**RED**

**CONSENT ORDER NO. 210127977199 DATED: 10/08/2021.**

**PROCEEDINGS NO.T4/TNPCB/F.1366SPR/RL/SPR/A/2021 DATED: 10/08/2021**

**SUB:** TNPC Board-Consent for Establishment-M/s. SIPCOT INDUSTRIAL PARK,VAIPUR MATHUR , S.F. No. S.F.nos.15,16, 17, 18, 56pt, 61pt, 63, 165pt, 166,167 pt, 168, 169,170, 171 pt, 172, 173, 174pt, 181, 222, 227, 228,229,230, 231, 233,234, 236, 237, 238, 239, 240,241, 242, 243, 244, 245,246, 247, 248, 249, 250, 251, 252, 253, 254, 255,256, 257, 258, 259, 260 of Vaipur village, S.F.nos. 44, 46, 47,48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 305, 306, 307, 309, 310,311, 312,313, 314, 315, 316, 317, 318, 319, 320,321,322, 323, 324, 325, 326, 327, 328, 329, 330, 331 of Mathur village and S.F.nos. 201/2, 202,204, 205, 206,207, 208pt of Perinjambakkam village., MATHUR village, Sriperumbudur Taluk and Kancheepuram District - for the establishment or take steps to establish the industry under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987(Central Act. 14 of 1981)-Issued -Reg.

**REF:** 1. Unit's application no. 7977199 dated: 26.01.2017  
2. IR.No : F.1366SPR/RL/AE/SPR/2020 dated 30/12/2020  
3. Minutes of the 185th TSC meeting vide item no. 185-04 dated:20.01.2021.  
4. Minutes of the 187th TSC meeting vide item no. 187-01 dated:29.07.2021.

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

The Managing Director,

M/s . SIPCOT INDUSTRIAL PARK,VAIPUR MATHUR

S.F No.S.F.nos.15,16, 17, 18, 56pt, 61pt, 63, 165pt, 166,167 pt, 168, 169,170, 171 pt, 172, 173, 174pt, 181, 222, 227, 228,229,230, 231, 233,234, 236, 237, 238, 239, 240,241, 242, 243, 244, 245,246, 247, 248, 249, 250, 251, 252, 253, 254, 255,256, 257, 258, 259, 260 of Vaipur village, S.F.nos. 44, 46, 47,48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 305, 306, 307, 309, 310,311, 312,313, 314, 315, 316, 317, 318, 319, 320,321,322, 323, 324, 325, 326, 327, 328, 329, 330, 331 of Mathur village and S.F.nos. 201/2, 202,204, 205, 206,207, 208pt of Perinjambakkam village.,

MATHUR Village,

Sriperumbudur Taluk,

Kancheepuram District.

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

S.F No. S.F.nos.15,16, 17, 18, 56pt, 61pt, 63, 165pt, 166,167 pt, 168, 169,170, 171 pt, 172, 173, 174pt, 181, 222, 227, 228,229,230, 231, 233,234, 236, 237, 238, 239, 240,241, 242, 243, 244, 245,246, 247, 248, 249, 250, 251, 252, 253, 254, 255,256, 257, 258, 259, 260 of Vaipur village, S.F.nos. 44, 46, 47,48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 305, 306, 307, 309, 310,311, 312,313, 314, 315, 316, 317, 318, 319, 320,321,322, 323, 324, 325, 326, 327, 328, 329, 330, 331 of Mathur village and S.F.nos. 201/2, 202,204, 205, 206,207, 208pt of Perinjambakkam village.,

MATHUR Village,

Sriperumbudur Taluk,

Kancheepuram District.

This Consent to establish is valid upto **March 31, 2022**, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

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

To  
The Managing Director,  
M/s.SIPCOT INDUSTRIAL PARK,VAIPUR MATHUR ,  
State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmipathy Road, Post Box No. 7223, Egmore,  
Chennai,Kancheepuram District  
Pin: 600008

**Copy to:**

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

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SPECIAL CONDITIONS

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

Sl. No.	Description	Quantity	Unit
Product Details			
1.	It is an Industrial Park for development and maintenance of infrastructure such as roads, storm water drains, water supply, power supply through TANGEDCO, etc., to accommodate industries, which does not fall under the purview of EIA Notification 2006 and its amendments.	249.2863	Hectares

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

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

3. **Special Additional Conditions:**

The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.

4. **Additional Conditions:**

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA/TN/ F.662/ 8(b)/385/ 2012 Dated 01.04.2015.
2. The unit shall conduct Ambient Noise level survey report and Ambient Air Quality survey report for base line data to assess the quality of Ambient Air and Ambient Noise level and submit the report within one month’s time.
3. The unit shall remit consent fee in case of revision by the Government.

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

## **GENERAL CONDITIONS**

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

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

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



## TAMIL NADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 210117977199 DATED: 10/08/2021.

PROCEEDINGS NO.T4/TNPCB/F.1366SPR/RL//SPR/W/2021 DATED: 10/08/2021

**SUB:** TNPC Board-Consent for Establishment-M/S SIPCOT INDUSTRIAL PARK,VAIPUR MATHUR S.F No. S.F.nos.15,16, 17, 18, 56pt, 61pt, 63, 165pt, 166,167 pt, 168, 169,170, 171 pt, 172, 173, 174pt, 181, 222, 227, 228,229,230, 231, 233,234, 236, 237, 238, 239, 240,241, 242, 243, 244, 245,246, 247, 248, 249, 250, 251, 252, 253, 254, 255,256, 257, 258, 259, 260 of Vaipur village, S.F.nos. 44, 46, 47,48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 305, 306, 307, 309, 310,311, 312,313, 314, 315, 316, 317, 318, 319, 320,321,322, 323, 324, 325, 326, 327, 328, 329, 330, 331 of Mathur village and S.F.nos. 201/2, 202,204, 205, 206,207, 208pt of Perinjambakkam village., MATHUR Village, Sriperumbudur Taluk, Kancheepuram District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and control of Pollution)Act,1974, as amended in 1988(Central Act 6 of 1974)- Issued- Reg.

**REF:** 1. Unit's application no. 7977199 dated: 26.01.2017  
2. IR.No : F.1366SPR/RL/AE/SPR/2020 dated 30/12/2020  
3. Minutes of the 185th TSC meeting vide item no. 185-04 dated:20.01.2021.  
4. Minutes of the 187th TSC meeting vide item no. 187-01 dated:29.07.2021.

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

The Managing Director,

SIPCOT INDUSTRIAL PARK,VAIPUR MATHUR

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

S.F. No.S.F.nos.15,16, 17, 18, 56pt, 61pt, 63, 165pt, 166,167 pt, 168, 169,170, 171 pt, 172, 173, 174pt, 181, 222, 227, 228,229,230, 231, 233,234, 236, 237, 238, 239, 240,241, 242, 243, 244, 245,246, 247, 248, 249, 250, 251, 252, 253, 254, 255,256, 257, 258, 259, 260 of Vaipur village, S.F.nos. 44, 46, 47,48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 305, 306, 307, 309, 310,311, 312,313, 314, 315, 316, 317, 318, 319, 320,321,322, 323, 324, 325, 326, 327, 328, 329, 330, 331 of Mathur village and S.F.nos. 201/2, 202,204, 205, 206,207, 208pt of Perinjambakkam village.,  
MATHUR Village,  
Sriperumbudur Taluk,  
Kancheepuram District.

This Consent to establish is valid upto **March 31, 2022**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

To  
The Managing Director,  
M/s.SIPCOT INDUSTRIAL PARK,VAIPUR MATHUR ,  
State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmi pathy Road, Post Box No. 7223, Egmore,  
Chennai,

Pin: 600008

**Copy to:**

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

SPECIAL CONDITIONS

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

Sl. No.	Description	Quantity	Unit
Product Details			
1.	It is an Industrial Park for development and maintenance of infrastructure such as roads, storm water drains, water supply, power supply through TANGEDCO, etc., to accommodate industries, which does not fall under the purview of EIA Notification 2006 and its amendments.	249.2863	Hectares

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

<b>a</b>	<b>Sewage Treatment Plant:</b>		
Treatment status: Septic Tank and SP/DT			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Septic Tank at SIPCOT project office	1	4.2*2.3*1.9
2.	Soak Pit	1	1.0m dia x 2.5 m Ht
Treatment status: Individual STP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Member units will have their own STP	0	-
<b>b</b>	<b>Effluent Treatment Plant:</b>		
Treatment status: Individual ETP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Member units will have their own ETP	0	-
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			
2.			

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

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	0.57	On Industrys own land
Effluent Type : Trade Effluent			

4. Additional Conditions:

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA/TN/ F.662/ 8(b)/385/ 2012 Dated 01.04.2015.
2. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
3. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
4. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
5. The stability of the entire building/ STP does not falls under the purview of the TNPC Board.
6. The unit shall obtain planning permission and building plan approval from the competent authority and furnish the same to the Board.
7. The unit shall earmark the buffer zone all around the periphery of the layout.
8. The unit shall allow only housing the industries that do not attract the provisions of EIA notification 2006 as amended in the industrial park as per the EC obtained.
9. The unit shall submit baseline data for ground water to assess the quality of ground water for 1 KM radius outside the boundary of the project and also inside available open wells within a month's time.
10. The unit shall monitor the ground water in and around the unit premises periodically, so as to assess its quality and submit the same to the Board.
11. The unit has to ensure that all the member Industries within the industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
12. The unit shall obtain the necessary permission / NOC of water supply from the TWAD Board / competent Authority.
13. The unit shall provide septic tank followed by soak pit to treat the sewage generated from SIPCOT administrative building, so as to achieve the standards prescribed by the Board.
14. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
15. The unit shall ensure that 33% of the total area of the project site should be covered with green belt.
16. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
17. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules, 2016.
18. The unit shall allot 5% (9.95 Hectares) of the total plot area (199.04 Hectares) for Solid Waste Management as reported in the unit's letter dated 27.02.2021.
19. The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
20. The unit shall remit consent fee in case of revision by the Government.

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



## **GENERAL CONDITIONS**

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

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

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



CHIEF ENGINEER (O&amp;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:13.04.2020

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

Sub: CMWSSB - C.E(O&M-II) - S.E(W.W.T&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 Industrial hub located at Irungattukottai, Pillaipakkam, Vallamvadagal, 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, 16.12.2019 & 24.01.2020.

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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, Vallamvadagal, 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 - ஸ்ரீமதி மாவட்டம் - திருப்பெரும்புளூர் வட்டம் - இரங்காட்டுக் கோட்டை கிராமம் - அங்காட் தொழில் வளாகத்தில் அமைந்திருக்கிற தொழிற்சாலைக்கு - செம்பரம்பாக்கம் ஏரியிலிருந்து ஓட்டை மறிப்பு நிலங்களுக்கு நீர்ப்பாசனம் போக எஞ்சிய நீர் 5 மில்லி மீட்டர் - ஓட்டை மறிப்பு - ஓட்டை வெளியிடப் படுகிறது.

பொருள் (பிரிவு)

அரசு துறை (நிலை) - 134

தாள்: 31.3.1997

பக்கங்கள்:

1. மேலாங்கம் இயக்குநர், அங்காட் தேர்வுக் கமிட்டி என். 1026/96  
தாள்: 2.9.1996.
2. தலைமைப்பொறியாளர், நீர்வள ஆதார அமைப்பு, சென்னை மண்டலம்,  
அருடங்கா ஓட்டை மறிப்பு வழங்கலுறை கமிட்டி என். பி.பி. 1/5250/96,  
தாள்: 24.12.1996.

பாரிசை 1ல் கட்ட கமிட்டியில் அங்காட், மேலாங்கம் இயக்குநர் இரங்காட்டுக் கோட்டை அங்காட் தொழில் வளாகத்திற்கு, அங்கு அமையவுள்ள - உருட்டாய் காரி தொழிற்சாலைக்கு தேவையான 1.1 மில்லி மீட்டர் கன அடி தண்ணீர் உட்பட மொத்தம் சுமார் 10 மில்லி மீட்டர் கன அடி தண்ணீர் தேவை என்பது கேட்டுக் கொண்டுள்ளது.

2. பாரிசை 2ல் கட்ட கமிட்டியில் தலைமைப்பொறியாளர் நீர் வள ஆதார அமைப்பு சென்னை மண்டலம் மறிப்பு அருடங்கா ஓட்டை மறிப்பு வழங்கல் திட்டம், கட்டிட காலக்காலில் செம்பரம்பாக்கம் ஏரியில் உள்ள நீர் நிலை ஒரே சீராகவும், 1992ம் ஆண்டு 485 மில்லி மீட்டர் 1980ம் ஆண்டு 711 மில்லி மீட்டர் கன அடியாகவும், 1992ம் ஆண்டு 485 மில்லி மீட்டர் கன அடியாகவும் 1996ம் ஆண்டு 2401 மில்லி மீட்டர் கன அடியாகவும் இருந்திருக்கிறது. இதன்படி பதிவு செய்யப் பட்டுள்ள 13,223 ஏக்கர் சுயக்கட்டுமான தற்போது விவசாயம் செய்யப்பட்டு வரும் 9800 ஏக்கர் நிலங்களுக்கு நீர்ப்பாசனம் செய்து கொடுக்க வேண்டும் என்ற நிலை உள்ளது என்பது குறிப்பிட்டுள்ளது. மேலும் இத்தொகுதி சென்னை மாநகருக்கு இடையில் விவசாயம் செம்பரம்பாக்கம் ஏரியிலிருந்து வழங்க வேண்டியிருப்பதால் நீர் இருப்பதை கமிட்டியில் கொண்டு தாள் தண்ணீர் வழங்க வேண்டும் என்ற குறிப்பிட்டுள்ளது.

3. தலைமைப்பொறியாளர் (சென்னை மண்டலம் மறிப்பு அருடங்கா ஓட்டை மறிப்பு வழங்கல் திட்டம்) உட்கமிட்டியை கமிட்டியிலிருந்து அங்காட் தொழில் வளாகத்திற்குச் செயற்குறிப்பை அரசு பரிசீலித்தது.

செம்பரம்பாக்கம் ஏரியில் நீர் இருப்பதற்கான, பதிவு செய்யப் பட்ட சுயக்கட்டு பகுதிகளுக்கான தேவையான தண்ணீர் மறிப்பு சென்னை நகருக்கு ஓட்டைக்குத் தேவையான ஓட்டை பூரித்த செய்தி உட்கமிட்டியில் செம்பரம்பாக்கம்



பாசனம் & அங்காட் தொழில் வளாகம்  
கமிட்டி அங்காட் தொழில் வளாகம்.

21/4  
22/4 SE

21/4

Madam,  
Sengul  
Chairman

ARE.

Pl. Send a copy of this to  
SIPWAT. GM (Tirumala)

22/4



ஏற்பட்டது. நான் செட்டி 5 பீஸ்கள் என கூற சிப்காட் தொழில்  
வளாகத்திற்கு வழங்குவதற்கு அரசு உடனடி நடவடிக்கை மேற்கொண்டிருக்கிறது. மேற்கூறிய வளாகத்திற்கு  
நிறுவனத்திலிருந்து, சிப்காட் தொழில் வளாகத்திற்கு பொருள்பயன்பாட்டிற்குரிய புதிய  
நிபந்தனைகளுக்கு உட்பட்டு ஒப்பந்தத்தில் கையொப்பப்பட்ட பின்வருமாறு தீர்  
வழங்க வேண்டும் எனக் கவனமப்பொதுபாளர், சென்னை மண்டலம், மற்றும்  
சிப்காட் குடிநீர் வழங்கல் திட்டம் அறிவித்தப்படுகிறது.

(ஆளுநர் துணைப்பல)

செ.பி. குப்பா,  
அரசு செயலர்.

பெருநர்:

கவனமப்பொதுபாளர்,  
தீர்மான ஆதார அமைப்பு, சென்னை.5.

கவனமப்பொதுபாளர்,  
தீர்மான ஆதார அமைப்பு,  
சென்னை மண்டலம் மற்றும் சிப்காட் குடிநீர்  
மற்றும் வழங்கல் துறை,  
✓மேலாண்மையுடைய தீர்மான,  
தமிழ்நாடு தொழில் வளர்ச்சி, கழகம்,  
19 ஏ. ரூ.மீ. வட்டிப்படி ரோடு,  
எழும்பூர், சென்னை.8.  
கோவட்டி சட்டியர், அண்ணா மாளிட்டம்.

நகல்:

தொழில் துறை சென்னை.5  
நகராட்சி தீர்மானம் மற்றும் குடிநீர் வழங்கல் துறை,  
சென்னை.5.

/ஆளுநர்/அப்பப்படுகிறது/

பி. ச. சுவாமிநாதன்  
புதுச்சேரி 3/4/97

# 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



Annexure-4

## 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 : Vaipar Mathur

Group : Atmospheric Pollution  
Sample Name : Ambient Air(AII)  
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) : 32.0 | Humidity (%) : 56.0  
Sampling Method & Plan : IS 5182 Part 5 & Part 14

ULR : TC1231024000043756F  
Report No. : HECS/AP/035/160924  
Sample ID No : 160924048  
Sampling Date : 16/09/2024

Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	6.83	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	18.47	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	13.81	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	43.55	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	20.19	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	8.93	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 041 Issue	1 (24 hours)	0.5 (Annual)

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

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

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

D.Anusuya  
Lab Manager  
Authorized Signatory





# Hubert Enviro Care Systems (P) Ltd.

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

## Laboratory Services Division

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

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Vaipur Mathur  
Group : Atmospheric Pollution  
Sample Name : Ambient Air(Air)  
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) : 32.0 1 Humidity (%) : 56.0  
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/035/160924/N  
Sample ID No : 160924048  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

# 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

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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

UIR : TC12310240000437571

Report No. : HECS/AP/036/160924

Sample ID No : 160924049

Sampling Date : 16/09/2024

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Panruti

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

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

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1 )	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m <sup>3</sup>	6.75	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m <sup>3</sup>	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m <sup>3</sup>	19.61	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m <sup>3</sup>	13.55	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m <sup>3</sup>	42.23	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m <sup>3</sup>	25.11	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m <sup>3</sup>	14.86	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/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

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

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

D.Anusuya  
Lab Manager  
Authorized Signatory



## Hubert Enviro Care Systems (P) Ltd.

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

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### TEST REPORT

Page : 1 of 1

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

Report No. : HECS/AP/036/160924/N  
Sample ID No : 160924049  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



# 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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SHCOT

Address of the Client : Vaipar Mathur

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Kanchivakkam

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

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

ULR : TC1231024000043758F

Report No. : HECS/AP/037/160924

Sample ID No : 160924050

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1 )	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	5.51	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	26.83	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	10.49	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	48.32	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	19.65	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	12.43	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/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

## Hubert Enviro Care Systems (P) Ltd.

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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

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### TEST REPORT

Page : 1 of 1

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

Report No. : HECS/AP/037/160924/N  
Sample ID No : 160924050  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02.07 2020

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

# 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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Atmospheric Pollution

Sample Name : Ambient Air(AI)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Vattambakkam

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

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

ULR : TC1231024000043759F

Report No. : HECS/AP/038/160924

Sample ID No : 160924051

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m3	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m3	8.20	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m3	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m3	24.78	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m3	13.91	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m3	43.77	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m3	25.15	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m3	11.39	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/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

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

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

D.Anusuya  
Lab Manager  
Authorized Signatory





# Hubert Enviro Care Systems (P) Ltd.

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

Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

## Laboratory Services Division

(Chemical & Biological Testing)

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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Atmospheric Pollution

Sample Name : Ambient Air(AH)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Vattambakkam

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

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

Report No. : HECS/AP/038/160924/N

Sample ID No : 160924051

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

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

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

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



D.Anusuya

Lab Manager

Authorized Signatory

# 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



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Valpur Mathur

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Mathur

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

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

ULR : TC1231024000043778F

Report No. : HECS/AP/039/160924

Sample ID No : 160924052

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1 )	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	7.95	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	21.48	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	11.95	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	46.33	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	25.90	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	8.42	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/m<sup>3</sup>- Micrograms per cubic meter, mg/m<sup>3</sup>-Milligrams per cubic meter, ng/m<sup>3</sup>-Nanograms per cubic meter.

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

## Hubert Enviro Care Systems (P) Ltd.

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

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### TEST REPORT

Page : 1 of 1

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

Report No. : HECS/AP/039/160924/N  
Sample ID No : 160924052  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 18/09/2024  
Report Date : 18/09/2024  
Sample quantity : NA

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



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

Ph: 42985555 / 43635555 Fax : 42985500

E-mail : labsales@hecs.in

**Laboratory Services Division**(Chemical & Biological Testing)  
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ISO 9001, 14001 & 45001 Certified.**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Panruti

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044366F

Report No. : HECSL/WT/007/160924

Sample ID No : 160924059

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 ( Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	mg/l	170.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Carcummin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	64.12	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	107.78	IS 3025 Part 32: 1988 ( Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 ( 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



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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Panruti

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044366F

Report No. : HECSL/WT/007/160924

Sample ID No : 160924059

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	789.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	34.02	IS 3025 Part 46: 1994 ( Valumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	6.17	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	27.65	HECS /WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.78	IS 3025(Part 11) : 2022 ( Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	4.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	1.35	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	54.0	IS 3025 Part 45: 1993 ( Flame emission Photometric 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)  
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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Panruti

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044366F

Report No. : HECSL/WT/007/160924

Sample ID No : 160924059

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO <sub>4</sub>	mg/l	45.73	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)( Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	170.0	IS 3025 (Part 21): 1986	200	600
27	Total dissolved solids	mg/l	442.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 ( Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 ( Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	300.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Panruti

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044366F

Report No. : HECSL/WT/007/160924

Sample ID No. : 160924059

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
39	Manganese	mg/l	BLQ (LOQ: 0.05)	USEPA 200.8 : 1994	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
43	Zinc	mg/l	BLQ(LOQ 0.1)	USEPA 200.8 : 1994	5	15

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

# 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

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### TEST REPORT

Page : 1 of 1

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

Report No. : HECSL/WT/007/160924/N  
Sample ID No : 160924059  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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

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



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### TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Kanchivakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044367F

Report No. : HECSL/WT/008/160924

Sample ID No : 160924060

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 ( Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	mg/l	150.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD) <sub>@ 27°C</sub> For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	40.08	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	102.88	IS 3025 Part 32: 1988 ( Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.6	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



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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Kanchivakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044367F

Report No. : HECSL/WT/008/160924

Sample ID No : 160924060

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	674.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	21.87	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	4.68	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	38.94	HECS /WT/SOP/002:: 2019	NA	NA
19	pH at 25°C	-	7.95	IS 3025(Part 11) : 2022 ( Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	5.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	1.82	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	58.0	IS 3025 Part 45: 1993 ( Flame emission Photometric 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



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Kanchivakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044367F

Report No. : HECSL/WT/008/160924

Sample ID No : 160924060

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO <sub>4</sub>	mg/l	27.14	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method) (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	150.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	382.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	190.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Kanchivakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044367F

Report No. : HECSL/WT/008/160924

Sample ID No : 160924060

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

## 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

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### TEST REPORT

Page : 1 of 1

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

Report No. : HECSL/WT/008/160924/N  
Sample ID No : 160924060  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



**Hubert Enviro Care Systems (P) Ltd.**

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

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**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Mathur

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044368F

Report No. : HECSL/WT/009/160924

Sample ID No : 160924061

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 ( Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	mg/l	150.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	44.09	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	97.98	IS 3025 Part 32: 1988 ( Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	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

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**TEST REPORT**

Page : 2 of 4

ULR : TC1231024000044368F  
Report No. : HECSL/WT/009/160924  
Sample ID No : 160924061  
Sampling Date : 16/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Mathur

Sample Reference : NA

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

Sample Location : NA

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

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

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	671.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.078	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	24.3	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	4.14	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	33.86	HECS /WT/SOP/002:: 2019	NA	NA
19	pH at 25°C	-	7.84	IS 3025(Part 11) : 2022 ( Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	4.0	IS 3025 Part 45: 1993 ( Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/li)	1.52	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	51.0	IS 3025 Part 45: 1993 ( Flame emission Photometric 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)  
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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Mathur

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044368F

Report No. : HECSL/WT/009/160924

Sample ID No : 160924061

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO <sub>4</sub>	mg/l	37.48	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method) (Turbidity Method)	200	400
26	Total alkalinity as CaCO <sub>3</sub>	mg/l	150.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	376.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO <sub>4</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO <sub>3</sub>	mg/l	210.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Water

Sample Name : Ground Water

Sample Mark : Mathur

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044368F

Report No. : HECSL/WT/009/160924

Sample ID No : 160924061

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

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

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

## 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

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### TEST REPORT

Page : 1 of 1

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

Report No. : HECSL/WT/009/160924/N  
Sample ID No : 160924061  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

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



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



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### TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044369F  
Report No. : HECSL/WT/010/160924  
Sample ID No : 160924062  
Sampling Date : 16/09/2024

Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH <sub>3</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	140.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD) <sub>5</sub> @ 27°C For 3 days	mg/l	3.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 ( Curcumin Method)	NA
5	Calcium as Ca	mg/l	48.09	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	48.09 129.12	IS 3025 Part 32: 1988 ( Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	5.8	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	867.0	IS 3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.44	APHA 23rd edition Method 4500 F -B,D: 2017	1.5
12	Iron as Fe	mg/l	0.12	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO <sub>3</sub>	mg/l	7.27	APHA 23rd edition Method 4500 NO3B: 2017	20



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



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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044369F

Report No. : HECSL/WT/010/160924

Sample ID No : 160924062

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C		8.05	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	486.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B, C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	26.73	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	41.34	HECSG /WTSOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	7.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	2.23	IS 11624: 2019	NA



D. Anusuya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

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Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044369F  
Report No. : HECSLAWT/010/160924  
Sample ID No : 160924062  
Sampling Date : 16/09/2024

Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296, Class-A)
26	Sodium as Na	mg/l	78.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO <sub>4</sub>	mg/l	55.70	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO <sub>3</sub>	mg/l	140.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO <sub>3</sub>	mg/l	230.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	BLQ (LOQ: 0.02)	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	2.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	1.1	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001



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



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044369F  
Report No. : HECSL/WT/010/160924  
Sample ID No : 160924062  
Sampling Date : 16/09/2024

Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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

\*\*\*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

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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Valpur Mathur  
Group : Water  
Sample Name : Surface Water (All)  
Sample Mark : Vallakottai  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : NA  
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 51.0  
Sampling Method & Plan : IS 17614(Part-1):2021  
Report No. : HECSL/WT/010/160924/N  
Sample ID No : 160924062  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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



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



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### TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Perinjambakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044370F  
Report No. : HECSL/VT/011/160924  
Sample ID No : 160924063  
Sampling Date : 16/09/2024

Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH <sub>3</sub>	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	170.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD) <sub>5</sub> @ 27°C For 3 days	mg/l	4.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Carcumin Method)	NA
5	Calcium as Ca	mg/l	52.10	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	32.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	137.17	IS 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	5.9	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	814.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.41	APHA 23rd edition Method 4500 F -B,D: 2017	1.5
12	Iron as Fe	mg/l	0.15	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO <sub>3</sub>	mg/l	8.14	APHA 23rd edition Method 4500 NO <sub>3</sub> B: 2017	20

D.Anusoya  
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



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### TEST REPORT

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Perinjambakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044370F

Report No. : HECSL/WT/011/160924

Sample ID No : 160924063

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C		7.44	IS 3025 Part 11: 2022 ( Electrometric Method)	8.5
15	Total dissolved solids	mg/l	448.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B, C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	26.73	IS 3025 Part 46: 1994 ( Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	36.65	HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	0.15	APHA 23rd edition Method 4500 P B,D: 2017	NA
23	Potassium as K	mg/l	5.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	1.85	IS 11624: 2019	NA

D.Anusuya  
Lab Manager  
Authorized Signatory



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Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



## Laboratory Services Division

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### TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Perinjambakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044370F

Report No. : HECSL/WT/011/160924

Sample ID No : 160924063

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	66.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO <sub>4</sub>	mg/l	35.61	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO <sub>3</sub>	mg/l	170.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO <sub>3</sub>	mg/l	240.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	0.051	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	4.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	2.1	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001



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



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### TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Perinjambakkam

Sample Reference : NA

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

Sample Location : NA

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

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

ULR : TC1231024000044370F

Report No. : HECSL/WT/011/160924

Sample ID No : 160924063

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Litres

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

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

\*\*\*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

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### TEST REPORT

Page : 1 of 1

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

Report No : HECSL/WT/011/160924/N  
Sample ID No : 160924063  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Litres

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

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



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



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### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

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) : 32.0 Humidity (%) :54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044353F

Report No. : HECS/PE/008/160924

Sample ID No : 160924054

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	23.05	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	9.63	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	21.08	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	%	20.9	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	36.7	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	42.4	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.24	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	190.0	IS 14767: 2000



D.Anusuya  
Lab Manager  
Authorized Signatory

# Hubert Enviro Care Systems (P) Ltd.

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Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

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) : 32.0 | Humidity (%) :54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044353F

Report No. : HECS/PE/008/160924

Sample ID No : 160924054

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.12	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.76	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	1.32	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	8.54	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07- 2020
16	Total Nitrogen as N	%	0.0524	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	8.98	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	7.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.62	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	20.2	IS 14765- 2000
21	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07- 2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Valpur Mathur  
Group : Pollution & Environment  
Sample Name : Soil(All)  
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) : 32.0 | Humidity (%) :54.0  
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/008/160924/N  
Sample ID No : 160924054  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	154.22	HECS-G/INS/SOP/ 042
2	Infiltration Rate	-	6.78	Inhouse method
3	Iron	mg/kg	3.94	Inhouse method
4	Moisture	%	4.54	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02-07: 2020

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



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



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### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Panruti

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

Sampling Method & Plan : ICARDA:2013

U/LR : TC1231024000044354F

Report No. : HECS/PE/009/160924

Sample ID No : 160924055

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	25.31	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	6.21	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	26.31	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	%	24.9	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	36.7	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	38.4	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	6.86	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	240.0	IS 14767: 2000



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  
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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Panruti

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044354F

Report No. : HECS/PE/009/160924

Sample ID No : 160924055

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date: 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.08	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.68	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	1.18	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	8.64	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No./01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0510	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	9.26	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	10.64	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.48	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	19.6	IS 14765: 2000
21	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No./01 Issue Date:02-07-2020
22	Phosphorous	µp/l	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



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A-21, III Phase, Thiru Vi Ka Industrial Estate,  
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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Vaipar Mathur  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : NA  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : Panruti  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0  
Sampling Method & Plan : ICARDA:2013  
Report No : HECS/PE/009/160924/N  
Sample ID No : 160924055  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	152.08	HECS-G/INS/SOP/ 042
2	Infiltration Rate	-	6.5	Inhouse method
3	Iron	mg/kg	4.54	Inhouse method
4	Moisture	%	4.64	HECS-G/ENV/SSW/SOP/003 Issue No.01 Issue Date:02/07: 2020

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

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



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



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### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Kanchivakkam

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044355F

Report No. : HECS/PE/010/160924

Sample ID No : 160924056

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	33.02	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	4.02	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	23.62	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	%	32.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	28.0	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	39.2	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.46	IS-2720 (Part -26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	276.0	IS-14767: 2000



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  
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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Kanchivakkam

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044355F

Report No. : HECS/PE/010/160924

Sample ID No : 160924056

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.20	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.78	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	1.36	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	11.50	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0452	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/l.	7.94	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/l.	8.04	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	4.3	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	18.6	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



## Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate,  
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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Vaipar Mathur  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : NA  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : Kanchivakkam  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0  
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/010/160924/N  
Sample ID No : 160924056  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	176.32	HECS-G/INS/SOP/ 042
2	Infiltration Rate	-	5.5	Inhouse method
3	Iron	mg/kg	1.58	Inhouse method
4	Moisture	%	5.72	HECS-G/ENV/SSW/SOP/003 Issue No.01 Issue Date:02.07.2020

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



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 : Vaipar Mathur

Group : Pollution &amp; Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Vattambakkam

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0

Sampling Method &amp; Plan : ICARDA:2013

ULR : TC1231024000044387F

Report No : HECS/PE/011/160924

Sample ID No : 160924057

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	27.30	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	5.20	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	24.02	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	%	36.5	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	32.0	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	31.5	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.38	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	260.0	IS 14767: 2000



D.Anusuya  
Lab Manager  
Authorized Signatory



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Ph: 42985555 / 43635555 Fax : 42985500  
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### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Vattambakkam

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044387F

Report No. : HECS/PE/011/160924

Sample ID No : 160924057

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.28	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.69	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	1.20	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	12.26	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02/07/2020
16	Total Nitrogen as N	%	0.0448	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	7.54	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	10.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	4.54	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	19.7	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02/07/2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

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



D.Anusuya  
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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Vaipar Mathur  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : NA  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : Vattambakkam  
Environmental Condition : Temperature (°C) : 32.0 Humidity (%) :54.0  
Sampling Method & Plan : ICARDA:2013

Report No : HECS/PE/011/160924/N  
Sample ID No : 160924057  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	121.31	HECS-G/INS/SOP/ 042
2	Infiltration Rate	-	7.0	Inhouse method
3	Iron	mg/kg	13.20	Inhouse method
4	Moisture	%	6.28	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07: 2020

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

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



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### TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Mathur

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044388F

Report No. : HECS/PE/012/160924

Sample ID No : 160924058

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	39.62	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.82	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	31.64	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	%	30.6	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	37.7	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	31.7	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	8.42	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µ S/cm	356.0	IS 14767: 2000



D.Anusuya  
Lab Manager  
Authorized Signatory



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ISO 9001, 14001 & 45001 Certified.



### TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipar Mathur

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : NA

Sample Reference : NA

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

Sample Location : Mathur

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000044388F

Report No. : HECS/PE/012/160924

Sample ID No : 160924058

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 21/09/2024

Report Date : 21/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm <sup>3</sup>	1.28	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.68	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	1.18	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	14.65	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No. 01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0512	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	8.98	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	6.08	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.3	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	19.4	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	ppm	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory

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## Laboratory Services Division

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ISO 9001, 14001 & 45001 Certified.

### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT  
Address of the Client : Vaipar Mathur  
Group : Pollution & Environment  
Sample Name : Soil(All)  
Sample Mark : NA  
Sample Reference : NA  
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.  
Sample Location : Mathur  
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) :54.0  
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/012/160924/N  
Sample ID No : 160924058  
Sampling Date : 16/09/2024  
Received Date : 16/09/2024  
Commenced Date : 16/09/2024  
Completed On : 21/09/2024  
Report Date : 21/09/2024  
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	163.04	HECS-G/INS/SOP/ 042
2	Infiltration Rate		6.54	Inhouse method
3	Iron	mg/kg	4.48	Inhouse method
4	Moisture	%	5.32	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07. 2020

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

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



D.Anusuya  
Lab Manager  
Authorized Signatory



## Hubert Enviro Care Systems (P) Ltd.

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Guindy, Chennai - 600 032.  
Ph: 42985555 / 43635555 Fax : 42985500  
E-mail : labsales@hecs.in



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### TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Group : Atmospheric Pollution

Sample Name : Ambient Noise Levels (Excluding vibration)

Sample Mark : Noise

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 9989:1981

ULR : TC1231024000043779F

Report No. : HECS/AP/040/160924

Sample ID No : 160924053

Sampling Date : 16/09/2024

Received Date : 16/09/2024

Commenced Date : 16/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	53.5	43.8
2	Panruti	52.5	43.2
3	Kanchivakkam	52.8	42.1
4	Vattambakkam	53.9	42.9
5	Mathur	52.2	40.7

#### 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



THE NEW  
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Page <sup>559</sup> - 5

11 APRIL 2015

Saturday



**SIPCOT INDUSTRIAL PARK, VAIPUR MATHUR,  
SRIPERUMBUDUR TALUK  
KANCHEEPURAM DISTRICT**

**ENVIRONMENTAL CLEARANCE**

Environmental Clearance has been obtained for the proposed SIPCOT Industrial Park at Vaipur Mathur, Kancheepuram District from State Level Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide their Lr.No.SEIAA-TN/F-662/EC/8(b)/385/2012, dated 01.04.2015.

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

MANAGING DIRECTOR  
SIPCOT  
19-A, Rukmani Lakshmipathy Road,  
Egmore, Chennai-600 008

DIPR/390/DISPLAY/2015

சினக் கந்தி

Page - 10 561

(11-4-2015)  
சனிக்கிழமை



**சிப்காட் தொழிற் பூங்கா**  
**வைப்பூர் மாத்தூர்**  
திருப்பெரும்புதூர் தானாகா / காஞ்சிபுரம் மாவட்டம்

**சுற்றுச்சூழல் இசைவானை**

மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், தமிழ்நாடு கடித எண். SEIAA/TN/F.662/EC/8(b)/385/2012 தேதி 01.04.2015 மூலம் காஞ்சிபுரம் மாவட்டம், வைப்பூர் மாத்தூர் கிராமங்களில் அமையவுள்ள தொழிற் பூங்காவிற்கு சுற்றுச்சூழல் இசைவானை வழங்கியுள்ளது.

இவ்விசைவானையின் முழு விவரங்களை சிப்காட் இணையதளமான [www.sipcot.com](http://www.sipcot.com) மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இணையதளமான [www.seiaa.tn.gov.in](http://www.seiaa.tn.gov.in) ஆகியவற்றில் காணலாம். மேலும் இசைவானையின் நகலினை தமிழ்நாடு மாசுக் கட்டுப்பாட்டு வாரியத் தலைமை அலுவலகத்தில் பெற்றுக்கொள்ளலாம்.

மேலாண்மை அயக்குநர்  
சிப்காட்  
19-அ, ருக்மணி இலட்சுமியத் சாலை,  
எழும்பூர், சென்னை - 600 008

08.12.2014, 11:09:00 AM



SIPCOT - State Industries Promotion Corporation of Tamil Nadu

https://sipcotweb.tn.gov.in/Environment\_distance

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17	Cheyyar - I			Thiruvannamalai		<a href="#">Download</a>			
18	Cheyyar - II			Thiruvannamalai		<a href="#">Download</a>			
19	Oragadam			Kancheepuram		<a href="#">Download</a>			
20	Vaipur Mathur			Kancheepuram		<a href="#">Download</a>			
21	Thervoykandigai			Thiruvallur		<a href="#">Download</a>			
22	Pillaiyakkam			Kancheepuram		<a href="#">Download</a>			
23	Vallam Vadagal - I			Kancheepuram		<a href="#">Download</a>			
24	Aerospace Park			Kancheepuram		<a href="#">Download</a>			
25	Vallam Vadagal - II			Kancheepuram		<a href="#">Download</a>			
26	Manapalai			Tiruchirappalli		<a href="#">Download</a>			
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12:18 PM 11-11-2024



# Annexure 7

SIPCOT - State Industries Promotion Corporation of Tamil Nadu

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2	Compliance Report - Pillaipakkam for June 2024	<a href="#">Download</a>
3	Compliance Report - Vallam Vadagal II for June 2024	<a href="#">Download</a>
4	Compliance Report - Vaipur Mathur for June 2024	<a href="#">Download</a>
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Enclosed below

12:22 PM 11/11/2024

## **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**

<b>S.No.</b>	<b>Designation</b>	<b>Responsibilities</b>
1	Managing Director	<ul style="list-style-type: none"><li>➤ Responsible for overall environmental management.</li><li>➤ Regularly conduct meeting with EMC and take feedback regarding all the activities performed under Environmental Management and give directions to succeeding component.</li><li>➤ Approval of funds for carrying out environmental management activities.</li></ul>
2	GM – Projects	<ul style="list-style-type: none"><li>➤ Keep aware about all the activities performed under EMC in the industrial parks.</li><li>➤ Issuing direction to Project officers for implementing Greenbelt development, Storm water management, rain water harvesting, etc.</li><li>➤ To deal with legal entity pertaining to environmental issues.</li></ul>
3	Manager	<ul style="list-style-type: none"><li>➤ To prepare and allocate budget for Environment Management Plan.</li><li>➤ Ensuring compliance to the conditions prescribed by statutory authority.</li><li>➤ Mandating member industries to comply with the conditions stipulated in the statutory approvals and non-compliance if any shall be reported to GM and immediately required action will be taken.</li></ul>
4	Environmental Consultants (Two)	<ul style="list-style-type: none"><li>➤ Obtaining Statutory Approvals from MoEF&amp;CC / SEIAA / TNPCB, etc.</li><li>➤ Addressing the various queries received from statutory authorities on environmental front.</li><li>➤ Submitting Environmental compliance report and coordinating with project officers for Environmental monitoring, audit, etc.</li><li>➤ Compliance with the environmental laws and implications which dynamically changes from time to time due to the emerging challenges.</li></ul>





**SIPCOT**

I/172476/2024

Date: 24-09-2024

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

Sir,

Sub: SIPCOT Industrial Park, Vaipur Mathur - Environmental Statement for the  
Financial Year ending 31<sup>st</sup> March 2024 - Submitted - Reg.

Ref: SEIAA EC Lr. No. SEIAA-TN/F-662/EC/8(b)/385/2012 dated 01.04.2015.

\*\*\*\*\*

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 Vaipur, Mathur and Perinjambakkam Villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu for the Financial Year ending 31<sup>st</sup> March 2024.

Yours faithfully,

*H. Prabhavathy*  
GENERAL MANAGER (P-III)

Encl: As above.



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

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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

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12	Compliance Report - Nedum for June 2024	<a href="#">Download</a>
13	Compliance Report - Mambakkam for June 2024	<a href="#">Download</a>
14	Compliance Report - Marudhandapalli for June 2024	<a href="#">Download</a>
15	Compliance Report - Theni for June 2024	<a href="#">Download</a>
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17	Compliance Report - Nedumpuli for June 2024	<a href="#">Download</a>
18	Compliance Report - Virudhunagar for June 2024	<a href="#">Download</a>
19	Environmental Statement for the Financial Year - 2023 - 2024	<a href="#">Download</a>

**SIPCOT**  
Govt. of Tamil Nadu

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

☎ 044-45261777

✉ [tapals@sipcot.in](mailto:tapals@sipcot.in)



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## Mandatories

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## Map



## Annexure-10

### SIPCOT – VAIPUR MATHUR MONITORING PHOTOGRAPH

#### AMBIENT AIR QUALITY MONITORING PHOTOGRAPH:

##### NEAR PROJECT SITE



##### PANRUTI



##### KANCHIVAKKAM





**VATTAMBAKKAM**



**MATHUR**



**NOISE MONITORING PHOTOGRAPH**




**NEAR PROJECT SITE**





**PANRUTI**







KANCHIVAKKAM	VATTAMBAKKAM
 <p>16-09-2024</p>	 <p>16-09-2024</p>
MATHUR	
 <p>16-09-2024</p>	

## SOIL SAMPLING PHOTOGRAPH

NEAR PROJECT SITE	PANRUTI
 <p>16-09-2024</p>	 <p>16-09-2024</p>

KANCHIVAKKAM	VATTAMBAKKAM
 <p>16-09-2024</p>	 <p>16-09-2024</p>
MATHUR	
 <p>16-09-2024</p>	

## GROUND WATER SAMPLING PHOTOGRAPH

PANRUTI	KANCHIVAKKAM
 <p>16-09-2024</p>	 <p>16-09-2024</p>

**MATHUR**



**SURFACE WATER SAMPLING PHOTOGRAPH**

**VALLAKOTTAI POND**



**PERINCHIPAKKAM LAKE**

