



SIPCOT

P-III/EC/I/47323/2023-VM

Date: 30.11.2023

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

Sir/Madam,

Sub: SIPCOT Industrial Park at Vaipur Mathur – Submission of Half Yearly Compliance Report for December 2023 (i.e., for the period of April 2023 to September 2023) - Reg.

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

We hereby submit the Half Yearly Compliance Report for the Development of Industrial Park at Vaipur, Mathur, Perinjambakkam Villages, Sriperumpudur Taluk, Kancheepuram District, Tamil Nadu for December 2023 (i.e., for the period of April 2023 to September 2023) along with the supporting documents for your perusal.

Thanking you

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

Copy to:

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

P.T.O.

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

CIN : U74999TN1971SGC005967

Regd. Office : 19-A, Rukmani Lakshmiipathy Road, Post Box No.7223, Egmore, Chennai - 600 008.
Phone : 45261777, Fax : 45261796 Website : www.sipcot.tn.gov.in



SIPCOT

/2/

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

/Forwarded by Order/

DEPUTY MANAGER (P-I)

gkl.
30/11/23

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**HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE
REPORT**

For the period of April 2023 to September 2023

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 2023

TABLE OF CONTENTS

S.No	List 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	18
	5.1 Ambient air quality monitoring	18
	5.2 Ambient noise level monitoring	18
	5.3 Soil Quality monitoring	18
	5.4 Ground water quality monitoring	18
	5.5 Surface water quality monitoring	18
6.	Conclusion	19

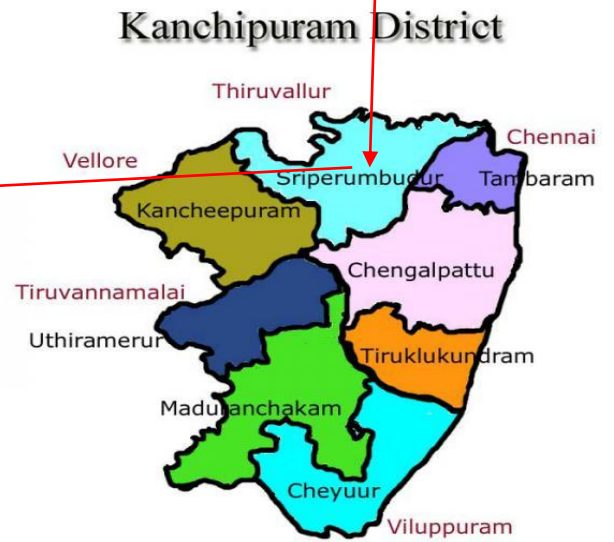
LIST OF ANNEXURE

S. No	List Of Contents
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

1.0 PROJECT DETAILS

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

2.0 Location Map



3.0 SITE PHOTOGRAPHS





4.0 SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

PART A- SPECIFIC CONDITIONS

I. Construction Phase

S.NO	ITEM	STATUS OF COMPLIANCE
1.	"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 Annexure -2.
2	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.	Condition will be complied.
3	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.	Condition will be complied.
4	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	Condition will be complied. All the member units will be instructed to comply with.

S.NO	ITEM	STATUS OF COMPLIANCE
	standards prescribed by the TNPCB.	
5	SIPCOT shall mandated that the member units should be commissioned only after securing water supply connection from the CMWSSB by SIPCOT.	Condition complied. Water supply letter from CMWSSB is enclosed as Annexure- 3.

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

S.NO	ITEM	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 will be 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.	Condition noted. 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.	Condition is being complied. All member units will be advised to comply with.
6.	All required sanitary and hygienic, measures should be in place before starting	Condition is being complied. All member units will be advised to comply

S.NO	ITEM	STATUS OF COMPLIANCE
	construction activities and they have to be maintained throughout the construction phase.	with.
7.	For disinfection of waste-water, system using ultra violet radiation shall be adopted.	Condition noted. All member units will be advised to comply with.
8.	For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.	Condition noted. 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.	Condition noted. 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.	Condition noted. 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.	Condition noted. 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.	Condition is being complied. Soil and ground water report is enclosed as Annexure - 4.
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.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.

S.NO	ITEM	STATUS OF COMPLIANCE
15.	No ground water shall be drawn with in SIPCOT area for construction period.	Condition noted.
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.	Condition noted. 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.	Condition is being complied. Air and Noise monitoring report is enclosed as Annexure- 4.
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.	Condition noted. All member units will be advised to comply with.
20.	Storm water control and its reuse shall be as per CGWB and BIS standards for various applications.	Condition noted. All member units will 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.	Condition noted. 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	Condition noted. All member units will be advised to comply with.

S.NO	ITEM	STATUS OF COMPLIANCE
	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.	Condition noted. 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.	Condition is being complied and all member units will be advised to comply with.
27.	Adequate fire protection equipments and rescue arrangements should be made.	Condition will be complied 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 Code (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.	Condition noted. All member units will be advised to comply with.

S.NO	ITEM	STATUS OF COMPLIANCE
32.	The probable date of commissioning of the project supported with necessary bar charts shall be furnished to the SEIAA.	Condition noted.
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.	Condition complied.

PART -B

GENERAL CONDITIONS (Construction and Operation stage)

S.NO	ITEM	STATUS OF COMPLIANCE
1.	It is mandatory for the Project proponent to furnish to the SEIAA, Half yearly compliance report in Hard and Soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.	Condition is being complied.
2.	In the case of any change(s) in the scope of the project or in the product mix, a fresh appraisal by the SEAC/SEIAA shall be obtained	Condition noted. There is no change in scope of the project.
3.	The SEIAA reserves the right to add additional safeguard measures/ subsequently, if found non compliance of EC conditions and to take action including revoking of this Environmental Clearance as the case may be.	Condition noted.
4.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (protection) Act, 1972,	All the member units will be mandated to obtain necessary approvals / clearance.

S.NO	ITEM	STATUS OF COMPLIANCE
	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	
5.	The project authorities should advertise with basic details at least in two local newspaper widely circulated, one of which shall be in the vernacular language of the locality 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.	Condition complied. Newspaper Advertisement copy is attached as Annexure-5.
6.	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.	Condition noted.
7.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCCB. The criteria pollutant levels namely SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location	Condition is being complied. Screenshot of compliance report including monitoring results uploaded in the website is enclosed as Annexure -7.

S.NO	ITEM	STATUS OF COMPLIANCE
	near the main gate of the company in the public domain.	
8.	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.	Condition complied. The clearance letter has been uploaded in SIPCOT website and the screenshot is enclosed as Annexure-6.
9.	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	Condition will be complied. All member units will be advised to comply with.
10.	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.	Condition will be complied. All member units will be advised to comply with.
11.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Condition complied. 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

S.NO	ITEM	STATUS OF COMPLIANCE
		Annexure – 8.
12.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Chennai.	Condition noted.
13.	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.	Condition noted.
14.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Chennai, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board.	Condition is being complied.
15.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of	Condition is being complied. Acknowledgement form TNPCB on submission of Form V is enclosed as Annexure - 9.

S.NO	ITEM	STATUS OF COMPLIANCE
	the Ministry of Environment and Forests, Chennai by e-mail.	
16.	The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.	Condition noted.
17.	This Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.	Condition noted. All the member units will be instructed to obtain all necessary clearances / approvals.
18.	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Condition noted.
19.	The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.	Condition noted.
20.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Condition noted.
21.	The above conditions will be enforced inter-alia, under the provisions of the Water	Condition noted.

S.NO	ITEM	STATUS OF COMPLIANCE
	<p>(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.</p>	
22.	<p>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.</p>	<p>Condition noted. No appeal lies against this Environmental Clearance.</p>

5.0 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 during the period of April 2023 to September 2023.

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 2023 to September 2023 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 2023 to September 2023 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 2023 to September 2023 is enclosed as **Annexure - 4**.

5.4 Ground water quality monitoring

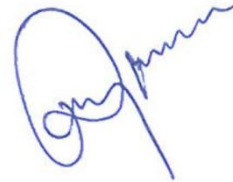
Ground water was tested for various water quality parameters during the period of April 2023 to September 2023. The test report of bore well water collected and analyzed is enclosed as **Annexure- 4**.

5.5 Surface water quality monitoring

The surface water was collected and tested for various water quality parameters during the period of April 2023 to September 2023. The test report of surface water collected and analyzed is enclosed as **Annexure- 4**.

6.0 CONCLUSION

1. The environmental monitoring was carried out at site during the period of April 2023 to September 2023.
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 Lakshmi pathy 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 60th 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 124th 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 14th 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 data of recent origin. Adequate measures to reduce air and noise pollution during construction shall be adopted, conforming to the norms prescribed by the TNPCB on noise limits.
18. Building materials composed wholly or partly of fly Ash should be used in the construction activities as per the provision of Fly ash Notification of September, 1999 as amended in August, 2003.
19. Ready mixed concrete must be used in building construction.
20. Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.
21. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
22. Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.
23. Use of glass may be reduced by up to 40% to reduce the electricity consumption load on air conditioning. If necessary, high quality double glass with special reflecting outside coating shall be used for windows.
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.

ENVIRONMENTAL CLEARANCE

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 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.
- ii) In the case of any change(s) in the scope of the project or in the product mix, a fresh appraisal by the SEAC/SEIAA shall be obtained.
- iii) The SEIAA reserves the right to add additional safeguard measures subsequently, if found non compliance of EC conditions and to take action including revoking of this Environmental Clearance as the case may be.
- iv) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / CMWSSB, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.
- v) The project authorities should advertise with basic details at least in two local newspaper widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of issue of clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN and a copy of the same should be forwarded to the Regional Office of the MoEF located at 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, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

- viii) A copy of the clearance letter shall be sent by the proponent to the Block Development Officer and the Local NGO, if any, from whom suggestions /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 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.

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

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.

a	Sewage Treatment Plant:		
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	Effluent Treatment Plant:		
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&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.

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.

13/04/2020
CHIEF ENGINEER (O&M-II)

பாசனம் - ஸீலா மாவட்டம் - திருப்பெரும்புளர் வட்டம் - இரங்காட்டுக் கோட்டை கிராமம் - ஸிப்காட் தொழில் வளாகத்தில் ஸ்பந்தினை தொழிற்சாலை செயல்பரம்பாக்கம் ஏரியின் மூலம் மறிமம் நிலங்களுக்கு நீர்ப்பாசனம் போக எடுதல தீர்வு 5 மில்லியட் செலவு - ஸ்பந்தினை - வட்டம் - ஸீலா மாவட்டம் - பருவம்.



பொதுப்பணி (புதுப்பிப்பு)

அரசு துறை (நிலை) : 134. நாள்: 31.3.1997

பலக்கலம்:

24/4

1. மேலாங்கம் இயக்குநர், ஸிப்காட் தேர்வுக் கமிட்டி என். 1026/96 நாள்: 2.9.1996.

2. தலைமைப்பொறியாளர், நீர்வள ஆதார அமைப்பு, சென்னை மண்டலம், கிருஷ்ணா ஓடநீர் வழங்கல்சுறை கமிட்டி என். பட்டியல் 1/5250/96, நாள்: 24.12.1996.

...

பாரிவை 1ல் கட்ட கமிட்டி ஸிப்காட், மேலாங்கம் இயக்குநர் இரங்காட்டுக்கோட்டை ஸிப்காட் தொழில் வளாகத்திற்கு, அங்கு அமையவுள்ள - உதட்டாய காரி தொழிற்சாலைக்கு தேவையான 1.1 மில்லியட் செலவு திட்டம் உட்பட மொத்தம் சுமார் 10 மில்லியட் செலவு திட்டம் தேவை என். கோட்டைக் கொண்டுள்ளார்.

2. பாரிவை 2ல் கட்ட கமிட்டி தலைமைப்பொறியாளர் நீர் வள ஆதார அமைப்பு சென்னை மண்டலம் மறிமம் கிருஷ்ணா ஓடநீர் வழங்கல் திட்டம், கட்டிட காலக்காலில் செயல்பரம்பாக்கம் ஏரியில் உள்ள நீர் நிலை ஒரே சீராக இருக்கவில்லை என்பது, நீர் கொள்ளளவு 1980ம் ஆண்டு 711 மில்லியட் செலவு அமைப்பு, 1992ம் ஆண்டு 485 மில்லியட் செலவு அமைப்பு 1996ம் ஆண்டு 2401 மில்லியட் செலவு அமைப்பும் இருக்கின்றன. குறிப்பிட்டுள்ளார். மேலும் பதிவு செய்யப் பட்டுள்ள 13,223 ஏக்கர் சுவர்க்கட்டுகளில் தற்போது வசாயம் செய்யப்பட்டு வரும் 9800 ஏக்கர் நிலங்களுக்கு நீர்ப்பாசனம் செய்தாக வேண்டும் என்ற நிலை உள்ளது என்பது குறிப்பிட்டுள்ளார். மேலும் இத்தொகுதி சென்னை மாநகருக்கு இடையில் வசதியும் செயல்பரம்பாக்கம் ஏரியின் மூலம் வழங்க வேண்டியிருப்பதால் நீர் இடுப்பை கருத்தில் கொண்டு தாது திட்டம் வழங்க வேண்டும் என்ற குறிப்பிட்டுள்ளார்.

3. தலைமைப்பொறியாளர் (சென்னை மண்டலம் மறிமம் கிருஷ்ணா ஓடநீர் வழங்கல் திட்டம்) டி கமிட்டி கமிட்டி கமிட்டி ஸிப்காட் தொழில் வளாகத்திற்கு செயற்குறிப்பை அரசு பரிசீலித்தது.

செயல்பரம்பாக்கம் ஏரியின் நீர் இடுப்பிற்கான, பதிவு செய்யப் பட்ட சுவர்க்கட்டு பகுதிகளுக்கான தேவையான திட்டம் மறிமம் சென்னை நகருக்கு ஓடநீருக்கு தேவையான ஓடநீர் பூரித்தி செய்த பதி செயல்பரம்பாக்கம்



மாணவரின் அறிவுரைப்படி
கமிட்டி கமிட்டி கமிட்டி

24/4
24/4 SE

24/4

1) AEE.
Pl. send a copy of this to SIPWOT. GM (Tirumala) for information.

Madam, Sep 2019 claim

ஏற்பட்டால் நான் ஒட்டுக்கு 5 பீஸ்கள் என ஒரு சிப்போட் தொழில் வளாகத்திற்கு வழங்குவதற்கு அரசு உடனடி நடவடிக்கை மேற்கொள்ள வேண்டுகிறேன். மேற்கண்ட வளாகத்திற்கு, சிப்போட் தொழில் வளாகத்திற்கு பொதுப்பணித்துறையின் புதிய நிபந்தனைகளுக்கு உட்பட்டு ஒப்பந்தத்தில் கையொப்பமிட்ட பீஸ்கள் தீர்வு வழங்க வேண்டும் என உடனடி நடவடிக்கை எடுக்க வேண்டுகிறேன். மத்திய சிடுக்தா குடிநீர் வழங்கல் திட்டம் முடிவடைந்திருக்கிறது.

(ஆளுநர் துணைப்படி)

என்.பி. குப்பா,
அரசு செயலர்.

பெயர்:

உடனடி நடவடிக்கை எடுக்க வேண்டுகிறேன்,
தீர்மானம் அரசு துணைப்படி, சென்னை. 5.

உடனடி நடவடிக்கை எடுக்க வேண்டுகிறேன்,
தீர்மானம் அரசு துணைப்படி,
சென்னை மண்டலம் மத்திய சிடுக்தா குடிநீர்
மத்திய வழங்கல் துறை,
மேலாண்மை இயக்குநர்,
தமிழ்நாடு தொழில் வளர்ச்சி துறை,
19 ஏ. சூன்யா வீதி, கோட்டை,
எழும்பூர், சென்னை. 8.
இவ்வாறு தீர்மானம், உடனடி நடவடிக்கை.

நாள்:

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

/ஆளுநர் துணைப்படி/

சி. சி. குப்பா
பிரதி செயலர் 3/4/97

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Annexure - 4
Laboratory Services Division
(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/AA/16/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : Ambient Air Quality

Sampling Location : Project Area

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 02/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	14.39	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	25.18	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	58.29	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	25.60	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	12.49	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	8.05	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, $\mu\text{g}/\text{m}^3$ - Micrograms per cubic meter, mg/m^3 -Milligrams per cubic meter, ng/m^3 -Nanograms per cubic meter.

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/AA/17/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : Ambient Air Quality

Sampling Location : Panruti

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 02/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	9.48	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	20.35	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	42.08	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	21.68	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 10)	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	6.48	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, $\mu\text{g}/\text{m}^3$ - Micrograms per cubic meter, mg/m^3 -Milligrams per cubic meter, ng/m^3 -Nanograms per cubic meter.

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/AA/18/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : Ambient Air Quality

Sampling Location : Kanchivakkam

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 02/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On :11/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	10.58	CPCB guide lines Volume 1 : 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	22.39	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	45.22	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	20.68	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 10)	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	7.59	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, $\mu\text{g}/\text{m}^3$ - Micrograms per cubic meter, mg/m^3 -Milligrams per cubic meter, ng/m^3 -Nanograms per cubic meter.

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/AA/19/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : Ambient Air Quality

Sampling Location : Vattambakkam

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 04/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	9.46	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	20.35	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	45.26	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	20.35	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	10.68	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	5.28	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, $\mu\text{g}/\text{m}^3$ - Micrograms per cubic meter, mg/m^3 -Milligrams per cubic meter, ng/m^3 -Nanograms per cubic meter.

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/AA/20/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : Ambient Air Quality

Sampling Location : Mathur

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 04/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	13.25	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	26.84	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	56.29	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	22.33	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	12.48	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	8.66	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, $\mu\text{g}/\text{m}^3$ - Micrograms per cubic meter, mg/m^3 -Milligrams per cubic meter, ng/m^3 -Nanograms per cubic meter.

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

End of Report



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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur Mathur

Report No. : HECSL/WT/028/050923
Report Date : 11/09/2023

Sample Description : WATER
Sample Mark Sample : Panruti - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 02/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.93	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	120.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	366.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	160.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	44.04	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	109.37	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	14.58	IS 3025 (Part - 46) 1994	30	100
10	Total Dissolved Solids	mg/l	374.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	19.63	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	BLQ(LOQ:0.2)	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	7.31	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B #	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation



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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur Mathur

Report No. : HECSL/WT/028/050923
Report Date : 11/09/2023

Sample Description : WATER
Sample Mark Sample : Panruti - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 02/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
24	Sodium as Na	mg/l	56.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	5.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.4	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	146.4	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 201	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	41.98	IS 3025(Part -45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.91	IS 11624 - 1986	NA	NA

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

End of Report



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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Vaipur Mathur

Report No. : HECSL/WT/029/050923

Report Date : 11/09/2023

Sample Description : WATER

Sample Mark Sample : Kanchivakkam - Ground Water

Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 02/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.97	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	110.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	579.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	165.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	40.08	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	96.50	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	15.80	IS 3025 (Part - 46) 1994	30	100
10	Total Dissolved Solids	mg/l	324.0	IS 3025(Part-16):1984	500	2000
11	Sulphate as SO ₄	mg/l	27.51	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.35	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	2.56	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B #	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation



(Signature)

Authorized Signatory

D. ANUSUYA

Deputy Quality Manager

TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur MathurReport No. : HECSL/WT/029/050923
Report Date : 11/09/2023Sample Description : WATER
Sample Mark Sample : Kanchivakkam - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 02/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
24	Sodium as Na	mg/l	45.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	3.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.7	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	134.2	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 201	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	36.55	IS 3025(Part-45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.52	IS 11624 - 1986	NA	NA

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

End of Report



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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur Mathur

Report No. : HECSL/WT/030/050923
Report Date : 11/09/2023

Sample Description : WATER
Sample Mark Sample : Mathur - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 04/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.81	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	130.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	673	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	187.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	44.89	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	76.21	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	18.23	IS 3025 (Part - 46):1994	30	100
10	Total Dissolved Solids	mg/l	322.0	IS 3025(Part-16):1984	500	2000
11	Sulphate as SO ₄	mg/l	33.41	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.27	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	4.12	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.024	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ (LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation




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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/030/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : WATER

Sample Mark Sample : Mathur - Ground Water

Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 04/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
24	Sodium as Na	mg/l	36.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	2.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ .01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.5	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	158.6	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	29.09	IS 3025(Part -45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.14	IS 11624 - 1986	NA	NA

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

End of Report



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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur Mathur

Report No. : HECSL/WT/031/050923

Report Date : 11/09/2023

Sample Description : WATER
Sample Mark Sample : Lake Near Perinjambakkam-Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 04/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
1	pH (at 25 °C)	-	7.48	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	105.0	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	659.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	3.1	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	162.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	36.47	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	118.28	4500 Cl --- B APHA 23rd Edn: 2017	250
9	Magnesium as Mg	mg/l	17.25	IS 3025 (Part - 46):1994	NA
10	Total Dissolved Solids	mg/l	369.0	IS 3025(Part -16):1984	500
11	Sulphate as SO ₄	mg/l	31.56	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	0.35	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	9.74	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.099	IS 3025 (Part - 53):2003	0.3
15	Boron as B #	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	NA
16	Zinc as Zn	mg/l	BLQ(LOQ:0.1)	USEPA Method 200.8:1994	15
17	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.5
19	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	USEPA Method 200.8:1994	0.001
20	Lead as Pb	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.1
21	Selenium as Se	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01
22	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.001




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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur Mathur

Report No. : HECSL/WT/031/050923

Report Date : 11/09/2023

Sample Description : WATER
Sample Mark Sample : Lake Near Perinjambakkam-Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 04/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
24	Sodium as Na	mg/l	61.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	4.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO4	mg/l	0.073	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	8.0	IS 3025 (Part - 17):1984	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	NA
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05
30	Total Chromium	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8 : 1994	NA
31	BOD ₃ days @27°C as O ₂	mg/l	4.0	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as	mg/l	28.0	IS 3025 (Part - 58):2006	NA
33	Dissolved oxygen	mg/l	6.1	IS 3025 (Part - 38):1989	6
34	Total Phosphorous as P	mg/l	0.061	IS 3025 (Pt 31) : 1988	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA
36	Bi Carbonate	mg/l	128.1	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	NA
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	NA
39	Percent Sodium as Na	%	44.08	IS 3025(Part -45) 1993	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	I
41	Chromium as Cr ⁶⁺	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA
44	Sodium Absorption Ratio	-	2.08	IS 11624 - 1986	NA

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

End of Report




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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur Mathur


Report No. : HECSL/WT/032/050923
Report Date : 11/09/2023

Sample Description : WATER
Sample Mark Sample : Pond Near Vallakottai -Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 04/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
1	pH (at 25 °C)	-	8.11	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	120.0	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	780.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	2.2	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	178.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	46.09	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	130.15	4500 Cl --- B APHA 23rd Edn: 2017	250
9	Magnesium as Mg	mg/l	15.63	IS 3025 (Part - 46):1994	NA
10	Total Dissolved Solids	mg/l	437.0	IS 3025(Part -16):1984	500
11	Sulphate as SO ₄	mg/l	55.63	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	0.89	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	6.35	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.14	IS 3025 (Part - 53):2003	0.3
15	Boron as B #	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	NA
16	Zinc as Zn	mg/l	21.46	USEPA Method 200.8:1994	15
17	Copper as Cu	mg/l	6.35	USEPA Method 200.8:1994	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.5
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.001
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.1
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001




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TEST REPORT

Page : 3 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Vaipur Mathur

Report No. : HECSL/WT/032/050923
Report Date : 11/09/2023

Sample Description : WATER
Sample Mark Sample : Pond Near Vallakottai -Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 04/09/2023 -05/09/2023
Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
24	Sodium as Na	mg/l	75.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	8.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	50.0	IS 3025 (Part - 17):1984	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	NA
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	NA
31	BOD,3 days @27°C as O2	mg/l	5.0	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as O2	mg/l	32.0	IS 3025 (Part - 58):2006	NA
33	Dissolved oxygen	mg/l	6.2	IS 3025 (Part - 38):1989	6
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA
36	Bi Carbonate	mg/l	152.2	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	NA
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	NA
39	Percent Sodium as Na	%	46.28	IS 3025(Part -45) 1993	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	1
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA
44	Sodium Absorption Ratio	-	2.44	IS 11624 - 1986	NA

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/01/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : SOIL

Sample Mark : Project Area

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 02/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay	ASTM D421/422
2	Organic Carbon		1.36	ASTM D421/422
3	Soil Texture i)Sand	%	31.2	ASTM D421/422
4	Soil Texture ii)Silt	%	22.7	ASTM D421/422
5	Soil Texture iii)Clay	%	46.1	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.81	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	142.1	IS:14767:2000
8	Cation exchange capacity	meq/100g	5.6	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	2.32	IS:2720 (Part-22: 1972)
10	Nitrogen	mg/kg	244.3	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	42.11	IS 10158:1982
12	Potassium	mg/kg	26.14	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	7.32	US EPA 200.8 Method
16	Iron	mg/kg	2.67	US EPA 200.8 Method
17	Manganese	mg/kg	177.12	US EPA 200.8 Method
18	Zinc	mg/kg	18.32	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	5.65	ASTM D6391-11
21	Bulk density	gm/cc	2.62	ASTM D6683-14
22	Moisture Content	%	6.81	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	23.62	IS 14765
24	Calcium as Ca	mg/kg	133.21	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	75.47	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	23.15	US EPA 200.8 Method

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

End of Report




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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/01/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : SOIL

Sample Mark : Panruti

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 02/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		1.28	ASTM D421/422
3	Soil Texture i)Sand	%	32.5	ASTM D421/422
4	Soil Texture ii)Silt	%	35.9	ASTM D421/422
5	Soil Texture iii)Clay	%	31.6	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	6.45	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	212.61	IS:14767:2000
8	Cation exchange capacity	meq/100g	5.32	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	3.77	IS:2720 (Part-22: 1972)
10	Nitrogen	mg/kg	213.65	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	4.33	IS 10158:1982
12	Potassium	mg/kg	32.76	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	5.22	US EPA 200.8 Method
16	Iron	mg/kg	5.87	US EPA 200.8 Method
17	Manganese	mg/kg	151.64	US EPA 200.8 Method
18	Zinc	mg/kg	37.41	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	5.22	ASTM D6391-11
21	Bulk density	gm/cc	3.72	ASTM D6683-14
22	Moisture Content	%	3.22	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	14.22	IS 14765
24	Calcium as Ca	mg/kg	119.44	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	41.71	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	18.14	US EPA 200.8 Method

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

End of Report



Authorized Signatory

D. ANUSUYA
Deputy Quality Manage

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/01/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : SOIL

Sample Mark : Kanchivakkam

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 02/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay loam	ASTM D421/422
2	Organic Carbon		0.89	ASTM D421/422
3	Soil Texture i)Sand	%	37.4	ASTM D421/422
4	Soil Texture ii)Silt	%	23.3	ASTM D421/422
5	Soil Texture iii)Clay	%	39.3	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.43	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	237.32	IS:14767:2000
8	Cation exchange capacity	meq/100g	4.46	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	1.54	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	241.32	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	26.33	IS 10158:1982
12	Potassium	mg/kg	19.76	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	5.87	US EPA 200.8 Method
16	Iron	mg/kg	3.76	US EPA 200.8 Method
17	Manganese	mg/kg	86.62	US EPA 200.8 Method
18	Zinc	mg/kg	32.21	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	4.65	ASTM D6391-11
21	Bulk density	gm/cc	4.11	ASTM D6683-14
22	Moisture Content	%	3.64	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	27.43	IS 14765
24	Calcium as Ca	mg/kg	114.62	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	82.32	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	29.13	US EPA 200.8 Method

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

End of Report



Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/01/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : SOIL

Sample Mark : Vattambakkam

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 04/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay loam	ASTM D421/422
2	Organic Carbon		1.22	ASTM D421/422
3	Soil Texture i)Sand	%	32.2	ASTM D421/422
4	Soil Texture ii)Silt	%	36.3	ASTM D421/422
5	Soil Texture iii)Clay	%	31.5	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.52	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	176.64	IS:14767:2000
8	Cation exchange capacity	meq/100g	4.33	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	1.21	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	206.33	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	28.22	IS 10158:1982
12	Potassium	mg/kg	47.41	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	5.63	US EPA 200.8 Method
16	Iron	mg/kg	6.33	US EPA 200.8 Method
17	Manganese	mg/kg	42.76	US EPA 200.8 Method
18	Zinc	mg/kg	14.22	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	7.48	ASTM D6391-11
21	Bulk density	gm/cc	3.11	ASTM D6683-14
22	Moisture Content	%	3.42	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	24.58	IS 14765
24	Calcium as Ca	mg/kg	118.73	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	103.54	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	13.72	US EPA 200.8 Method

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

End of Report



Authorized Signatory

D. ANUSUMITA
Deputy Quality Manager

Hubert Enviro Care Systems (P) Ltd.

18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
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E-mail : labsales@hecs.in

Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/01/050923

Address of the Client : Vaipur Mathur

Report Date : 11/09/2023

Sample Description : SOIL

Sample Mark : Mathur

Sample Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 04/09/2023 -05/09/2023

Analysis Commenced On : 05/09/2023

Completed On : 11/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		1.63	ASTM D421/422
3	Soil Texture i)Sand	%	36.1	ASTM D421/422
4	Soil Texture ii)Silt	%	32.3	ASTM D421/422
5	Soil Texture iii)Clay	%	31.6	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.86	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	167.12	IS:14767:2000
8	Cation exchange capacity	meq/100g	4.54	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	1.63	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	193.22	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	43.77	IS 10158:1982
12	Potassium	mg/kg	26.76	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	5.12	US EPA 200.8 Method
16	Iron	mg/kg	6.32	US EPA 200.8 Method
17	Manganese	mg/kg	134.41	US EPA 200.8 Method
18	Zinc	mg/kg	17.43	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	5.33	ASTM D6391-11
21	Bulk density	gm/cc	2.33	ASTM D6683-14
22	Moisture Content	%	5.35	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	25.31	IS 14765
24	Calcium as Ca	mg/kg	116.4	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	52.42	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	19.41	US EPA 200.8 Method

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

End of Report




Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

Hubert Enviro Care Systems (P) Ltd.

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Laboratory Services Division

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Recognized by MoEF, 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
Sample Description : Noise Monitoring
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 02/09/2023 - 05/09/2023

Report No. : HECSL/N/001-005/050923
Report Date : 11/09/2023

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	59.3	51.6
2	Panruti	54.6	48.1
3	Kanchivakkam	50.3	47.2
4	Vattambakkam	49.2	46.3
5	Mathur	56.2	49.1

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



Authorized Signatory

D. ANUSUYA
Deputy Quality

THE NEW
INDIAN EXPRESS

Page ⁵⁵⁹ - 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 and also in the SEIAA website 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 Lakshmi pathy Road,
Egmore, Chennai-600 008

சினக் கந்தி

Page - 10 561

(11-4-2015)
சனிக்கியுமை



சிப்காட் தொழிற் பூங்கா
வைப்பூர் மாத்தூர்
திருப்பெரும்புதூர் தாலுகா / காஞ்சிபுரம் மாவட்டம்

சுற்றுச்சூழல் இசைவாணை

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 இசைவாணை வழங்கியுள்ளது.

இவ்விசைவாணையின் முழு விவரங்களை சிப்காட் இணையதளமான www.sipcot.com மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இணையதளமான www.seiaa.tn.gov.in ஆகியவற்றில் காணலாம். மேலும் இசைவாணையின் நகலினை தமிழ்நாடு மாசுக் கட்டுப்பாட்டு வாரியத் தலைமை அலுவலகத்தில் பெற்றுக்கொள்ளலாம்.

மேலாண்மை இயக்குநர்
சிப்காட்
19-அ, ருக்மணி இலட்சுமிபதி சாலை,
எழும்பூர், சென்னை - 600 008

செ.ம.தொ.இ/390/வரைகலை/2015

17	Cheyyar	Thiruvannamalai	
	a) Cheyyar - I		Download
	b) Cheyyar - II		Download
18	Oragadam	Kancheepuram	
	a) Oragadam		Download
	b) Vaipur Mathur		Download
19	Thervoykandigai	Thiruvallur	Download
20	Pillaipakkam	Kancheepuram	Download
21	Vallam Vadagal	Kancheepuram	
	a) Vallam Vadagal - I		Download
	b) Aerospace Park		Download
	c) Vallam Vadagal - II		Download
22	Manaparai	Tiruchirappalli	Download
23	Tindivanam	Villupuram	Download
24	Manallur	Thiruvallur	Download
25	Thoothukudi - II	Thoothukudi	Download
26	Nemili	Kancheepuram	Download
27	Marudhandapalli (Hosur Phase-IV)	Krishnagiri	Download
28	Mambakkam	Kancheepuram	Download <small>new</small>
29	Theni	Theni	Download <small>new</small>



Annexure - 7

The screenshot displays the SIPCOT website interface. At the top, there is a navigation menu with links for HOME, ABOUT US, DASHBOARD, DOCUMENT, OFFICE ORDERS / CIRCULARS, TENDERS, GALLERY, WATER AUDIT, CONTACT US, and APPLY ONLINE. The main content area features a table of compliance reports and a sidebar for environment management.

Sl.no.	Title
1	Compliance Report -Thervoy Kandigai for June 2023
2	Compliance Report - Pillaipakkam for June 2023
3	Compliance Report - Vallam Vadagal I for June 2023
4	Compliance Report - Vaipur Mathur for June 2023
5	Compliance Report - Aerospace Park for June 2023
6	Compliance Report - Cheyyar for June 2023
7	Compliance Report - Manaparai for June 2023
8	Compliance Report - Tindivanam for June 2023
9	Compliance Report - Manallur for June 2023
10	Compliance Report - Vallam Vadagal II for June 2023
11	Compliance Report - Thoothukudi for June 2023
12	Compliance Report - Nemili for June 2023
13	Compliance Report - Mambakkam for June 2023
14	Compliance Report - Marudhandapalli for June 2023
15	Compliance Report - Theni for June 2023
16	Environmental Statement for the Financial Year - 2022 - 2023

ENVIRONMENT MANAGEMENT

- > Environment Policy
- > Environmental Clearance
- > Compliance Report

The Windows taskbar at the bottom shows the search bar, system tray, and the date 15-Nov-23 at 2:56 PM.

ENVIRONMENTAL MANAGEMENT CELL

1. INTRODUCTION:

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

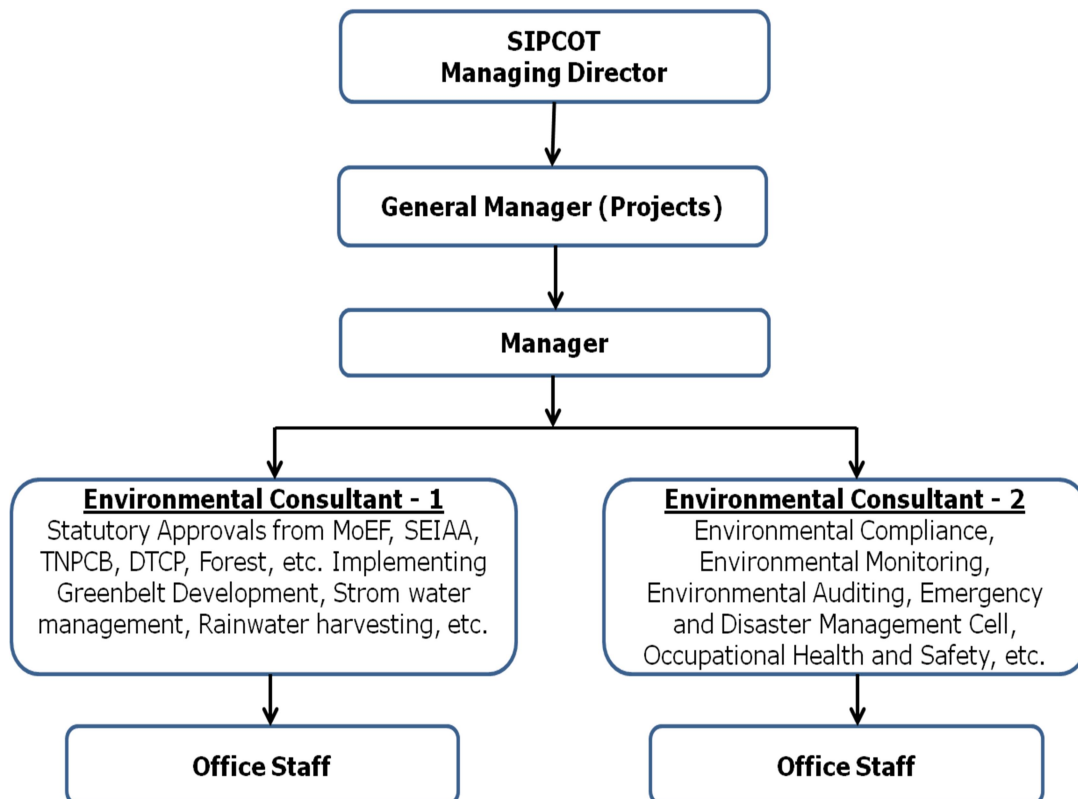


Figure - 1 Organogram for Environmental Management Cell

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

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

Table – 1: Roles and responsibilities of EMC

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



SIPCOT

Annexure -9

P-III/EC/I/27207/2023/OG-II

Date: 25.09.2023

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

/RPAD/

Sir,

Sub: SIPCOT Industrial Park, Vaipur Mathur - Environmental Statement for the Financial Year ending 31st March 2023 - 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 31st March 2023.

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/

ASSISTANT GENERAL MANAGER (P-III)



State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

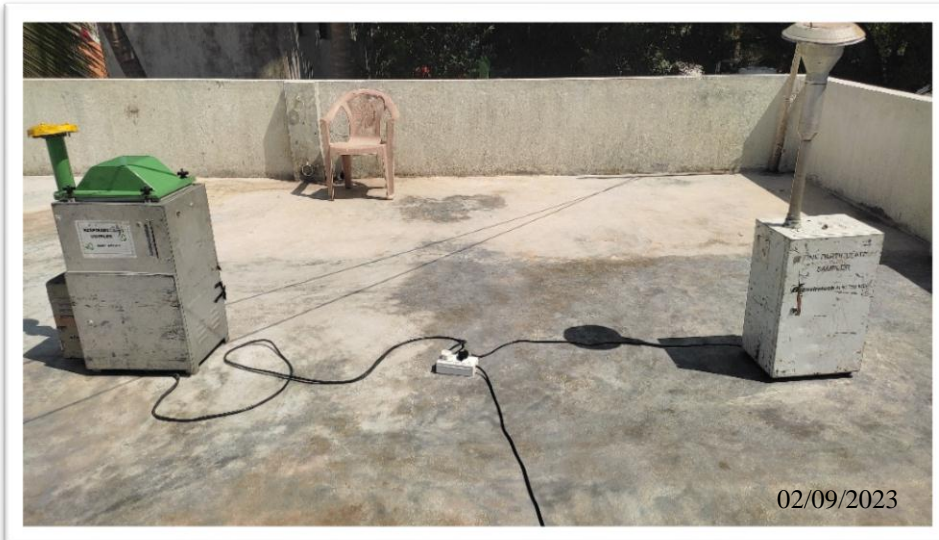
CIN : U74999TN1971SGC005967

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

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

SIPCOT – VAIPUR MATHUR MONITORING PHOTOS

AMBIENT AIR QUALITY MONITORING PHOTOS:



Near Project site



Panruti



Kanchivakkam



Vattambakkam



Mathur

Ground water sampling photos



Panruti



Kanchivakkam



Mathur

Surface water sampling photograph



Vallakottai Pond



Perinchipakkam Lake

Soil sampling photograph



Project area



Panruti



Kanchivakkam



Vattambakkam



Mathur

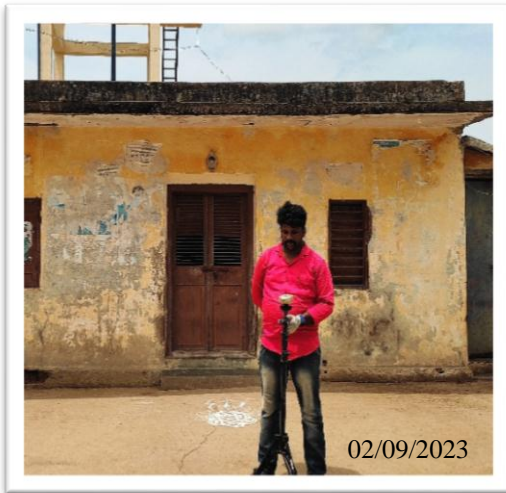
Noise monitoring photograph



Project area



Panruti



Kanchivakkam



Vattambakkam



Mathur