ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of April 2024 - September 2024

For

"Development of SIPCOT Industrial Park"

At

Mangal, Kunnavakkam, Mathur, Karanai, Chellaperumbulimedu, Perumbulimedu, Ukkamperrumbakkam, Shozhavaram, Alinjalpattu, Mahajanambakkam Villages, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu

EC Obtained Vide File No 21-181/2014-IA-III dated: 30.09.2016

Submitted by

M/s. STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED,

19/A ,Rukmani Lakshmipathy Road, Egmore, Chennai – 600 008.

Prepared by

HUBERT ENVIRO CARE SYSTEMS (P) LTD CHENNAI

(ENVIRONMENTAL CONSULTANT)

November 2024

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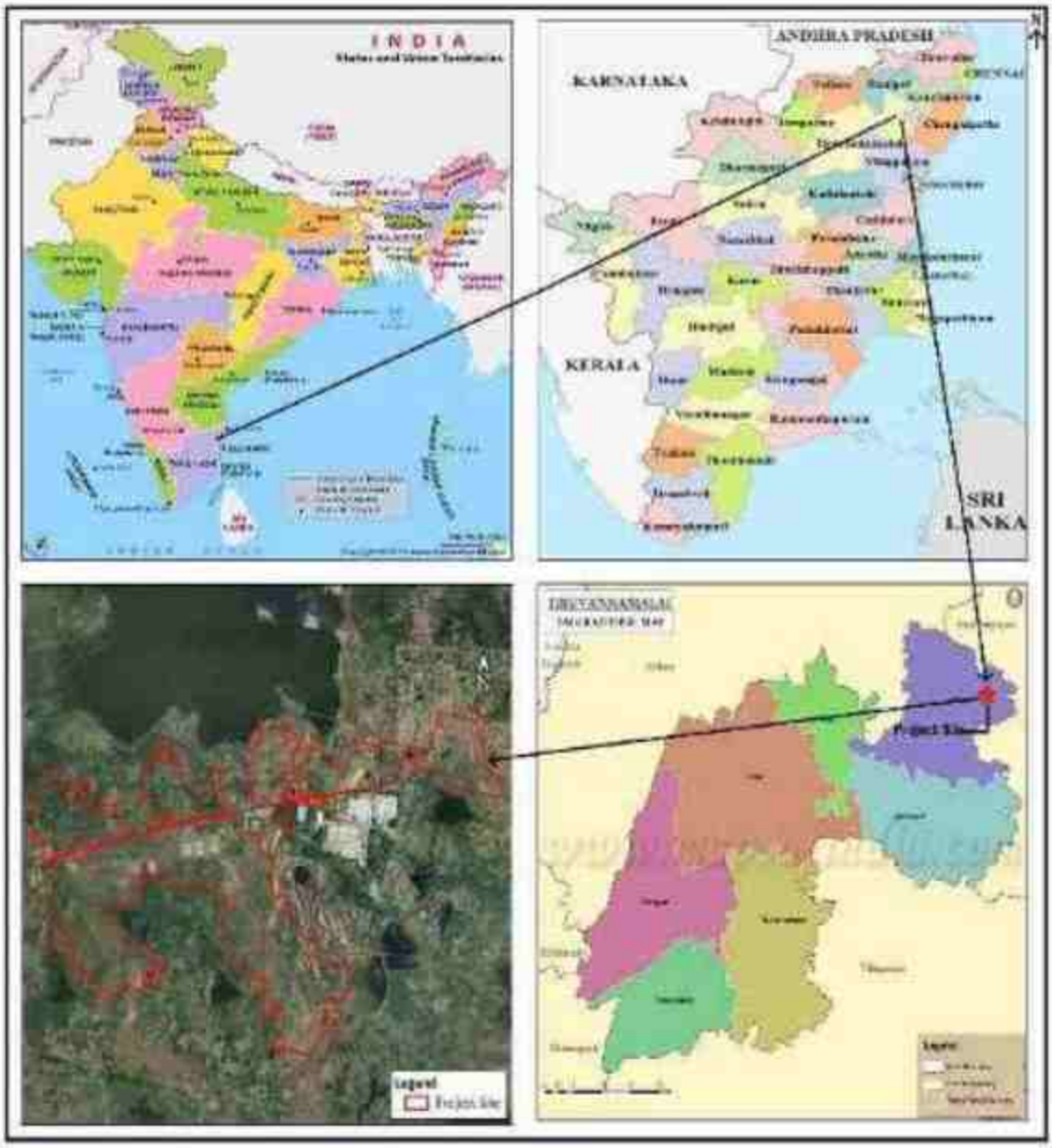
1.0 PROJECT DETAILS

S. No	Description	Details
1	Name of the Project	Development of SIPCO Cheyyar Industrial Park
2	Name of the Proponent	State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT).
3	Location	Mangal, Kunnavakkam, Mathur, Karanai,Chellaperumbulimedu, Perumbulimedu, Ukkamperrumbakkam, Shozhavaram, Alinjalpattu, Mahajanambakkam Villages, Cheyyar and Vembakkam Taluk*, Tiruvannamalai District, Tamil Nadu. Note: Cheyyar Taluk is bifurcated as Vembakkam Taluk also.
4	EC. No	**F. No. 21-181/2014-IA.III Dated: 30.09.2016** (Enclosed as **Annexure – 1**)
5	Total Plot Area	931.015 Ha
6	Water Requirement	4.5 MGD (Existing) and 1.62 MLD (Proposed) Source: • TWAD (Cheyyar River) and Approval letter is enclosed as **Annexure – 17** • Additional augmentation of 1.62 MLD as per **Annexure 17a.**

2.0 LOCATION MAP



3.0 SITE PHOTOGRAPHS


SIPCOT INDUSTRIAL COMPLEX CHEYYAR
20.09.2024


20.09.2024


20.09.2024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4.0 SIX MONTH ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

Part A – Specific Conditions

I. Construction Phase

(Note: The industrial park is still under construction phase)

S. No	EC Conditions	Status of Compliance
i	Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Consent to Establish obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974. Copy of the same is enclosed as **Annexure – 2.**
ii	There shall be a continuous greenbelt along the plant premises, except at the designated entry and exit points.	SIPCOT has developed continuous greenbelt across various locations within the industrial park, ensuring green cover throughout the industrial park. Greenbelt layout of the Industrial Park is enclosed as **Annexure – 3**. Photographs of green belt development by SIPCOT are enclosed as **Annexure – 4**. Additionally, individual industries have developed greenbelts within their plots. Photographs of green belt development by Individual Industries are enclosed as **Annexure – 4.**
iii	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured/ recorded to ensure the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Six Monthly Monitoring reports.	The quantity of fresh water supplied to individual industries is being measured / recorded by SIPCOT. Average quantity of freshwater supplied for the industries is ~1.5 MLD. Water recycling and rainwater harvesting activities are implemented by the individual industries within their plots. Photographs of STP and ETP of Individual industries are enclosed as **Annexure 5**. Photographs of Rain water harvesting structures provided by Individual industries are enclosed as **Annexure 6**.
iv	Special purpose vehicle shall be established for implementation monitoring and compliance of the environmental safeguards.	Environmental Management Cell was established for implementation monitoring and compliance of the environmental safeguards. Supporting docs are enclosed as **Annexure – 7.**
v	All the recommendation of the EMP shall be complied with letter and spirit. All the mitigation measures submitted in	The Environmental Management Plan along with the compliance status is given below:

<table>
<tr><th>S. No</th><th>EC Conditions</th><th>Status of Compliance</th></tr>
<tr><td></td><td>the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.</td><td>
<table>
<tr><th>S. No</th><th>Project Components</th><th>Capital Cost incurred (₹ in Lakhs)</th></tr>
<tr><td>1</td><td>Greenbelt development</td><td>222.43</td></tr>
<tr><td>2</td><td>Solid Waste Management Facility</td><td>157.99</td></tr>
<tr><td>3</td><td>Storm water drain</td><td>2,700.16</td></tr>
<tr><td colspan="2">Total EMP Cost</td><td>3,080.58</td></tr>
</table>
Photographs of green belt development by SIPCOT are enclosed as Annexure – 3.

Photographs of Solid Waste Management Facility Provided by SIPCOT are enclosed as Annexure – 8.

Photographs of Storm Water Drains Provided by SIPCOT are enclosed as Annexure –9.

Photographs of Rainwater Harvesting provided by SIPCOT as well as individual industries are enclosed as Annexure – 6.

In addition to the above, SIPCOT has allocated ₹9.2 Crores (Rupees Nine Crores Twenty Lakhs Only) exclusively for carrying out CER activities surrounding the SIPCOT Industrial Park, Cheyyar (Phase-II).

SIPCOT has requested the District Collector, Tiruvannamalai to submit a detailed proposal specifying CER activities, including provisions for developing facilities for disabled people that could be implemented under CER in the surrounding area of the SIPCOT Industrial Park, Cheyyar (Phase-II).

Acknowledgement copy of letter submitted to the District Collector, Tiruvannamalai requesting to submit the proposal for is enclosed as Annexure – 10.</td></tr>
<tr><td>vi</td><td>The member units shall provide storage tanks for storage of effluent for monitoring the characteristics of effluent before taking into the CETP for further treatment.</td><td>CETP was not envisaged in the Industrial Park.

However, SIPCOT has mandated the member units to have their own ETP with Zero Liquid Discharge (ZLD) system and to handle their own domestic wastewater as per the prescribed standards.

Photographs of STP and ETP of Individual industries are enclosed as Annexure 4.</td></tr>
<tr><td>vii</td><td>Proper meters with recording facilities shall be provided to monitor the effluent quality and quantity sent from member</td><td>CETP was not envisaged in the Industrial Park.

However, SIPCOT has mandated the member units to</td></tr>
</table>

S. No	EC Conditions	Status of Compliance
	industries to CETP and from CETP to the final disposal/re-use on a continuous basis.	have their own ETP with Zero Liquid Discharge (ZLD) system and to handle their own domestic wastewater as per the prescribed standards. The Member Industries has provided proper meters with recording facilities in their ETP. Photographs of STP and ETP of Individual industries are enclosed as **Annexure 5**. Photographs of Metering System provided in the STP and ETP by the Individual industries are enclosed as **Annexure 5**.
viii	Member industries shall treat the effluent to meet the prescribed CETP inlet norms.	CETP was not envisaged in the Industrial Park. SIPCOT has mandated the member units to have their own ETP with zero liquid discharge system and to handle their own domestic waste water as per the prescribed standards. Photographs of STP and ETP of Individual industries are enclosed as **Annexure 5**.
ix	The project proponent shall establish an environmental monitoring cell with all the potential polluting units as members to review the environmental monitoring data and suggest for improvements.	Separate Environmental Management Cell has been formed for implementation monitoring and compliance of the environmental safeguards. Environment Management Cell (EMC) will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as **Annexure – 7**.
x	Internal Road widths within the industrial area shall be minimum 24 m ROW.	SIPCOT has provided Internal Road with 24 m and 36 m ROW within the industrial area. Photographs of the same are attached as **Annexure 11**
xi	Common facilities such as repair shops, rest rooms for drivers and attendants shall be provided.	SIPCOT has provided common facilities like rest rooms, toilet, etc. for drivers and attendants within the truck parking area. The Photographs of common facilities provided for drivers and attendants are attached as **Annexure – 15.**
xii	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	All required sanitary and hygienic measures are placed before starting construction activities and maintained throughout the construction phase. The Photographs of toilet facilities provided for the construction workers is enclosed as **Annexure – 12.**
xiii	Soil and ground water samples will be tested to ascertain that there is no threat	Soil & ground water samples are collected and being tested periodically in and around the industrial park.

S. No	EC Conditions	Status of Compliance
	to ground water quality by leaching of heavy metals and other toxic contaminants.	There is no threat to ground water quality due to leaching of heavy metals and other toxic contaminants. Soil and ground water monitoring reports are enclosed as **Annexure – 13**.
xiv	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water.	Construction spoils, including bituminous material and other hazardous materials are secured in the designated areas and does not contaminate water courses. The photographs of nearest water bodies are enclosed as **Annexure – 14.** Surface Water Quality Monitoring Reports of nearby water bodies are enclosed as **Annexure – 13**.
xv	Parking space to accommodate trucks, cars, two wheelers and bicycles shall be provided as per the norms.	SIPCOT has provided parking spaces within their project office. Further, SIPCOT has provided Truck Parking Area within the Industrial Park. Additionally, Individual industries have parking slots within their premises. Photograph of SIPCOT Project Office Parking area, SIPCOT Truck Parking Area and Individual Industries Parking Area are enclosed as **Annexure – 15.**
xvi	Any hazardous waste generated during development/ construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	Agreed to comply.
xvii	The diesel generator sets to be used during development/ construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	SIPCOT has not proposed any DG sets for the development/ construction phase of the Project. However, condition will be complied, if required for completing the remaining infrastructure.
xviii	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	SIPCOT has not proposed any DG sets for the development/ construction phase of the Project. However, condition will be complied, if required for completing the remaining infrastructure.
xix	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Agreed to comply.

S. No	EC Conditions	Status of Compliance
xx	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during development/ construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.	Ambient noise levels are being monitored periodically in and around the industrial park. Ambient noise level and Ambient air quality monitoring reports are enclosed as **Annexure-13.** The adequate measures are taken to reduce the ambient air and noise level during construction phase.
xxi	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.	In accordance with the Fly Ash Notification, 1999, there are no coal or lignite-based thermal power plants within a 50 km radius of the project site, resulting in unavailability of fly ash as construction material. However, individual industries have utilized fly ash-blended materials in their construction activities. Photographs of fly ash mixed construction materials used by these industries is enclosed as **Annexure – 16.**
xxii	Ready mixed concrete must be used in site development and building construction.	Ready mixed concrete is being used in site development and building construction.
xxiii	Storm water control and its re-use as per CGWB and BIS standards for various applications.	SIPCOT has implemented a comprehensive storm water drainage system to efficiently manage water flow across the industrial park. Photographs of the storm water drains provided along the internal roads of the industrial park are enclosed as **Annexure – 9**. Further, individual industries have established their own storm water drainage systems within their plots. Collected storm water is directed into rainwater harvesting ponds, allowing industries to reuse the water. Photographs of the storm water drains and rainwater harvesting ponds provided by the individual industries are enclosed as **Annexure – 6&9**.
xxiv	Water demand during development / construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	SIPCOT is utilizing ready-mix concrete for construction, which helps reduce water demand during the development phase. This practice minimizes water consumption in the construction process.

S. No	EC Conditions	Status of Compliance
xxv	Permission to draw ground water shall be obtained from the competent Authority prior to construction/ operation of the project.	No Ground water is drawn by SIPCOT. Total water requirement for the project is sourced from TWAD board. Water allocation letter is enclosed as **Annexure – 17&17a.**
xxvi	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	SIPCOT has not proposed CETP & CSTP. Hence, dual plumbing was not implemented for the separation of grey and black water.
xxvii	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Individual industries have provided pressure reducing devices or sensor-based control for fixtures and taps.
xxviii	Use of glass may be reduced by up to 40%. To reduce the electricity consumption and load on air conditioning. If necessary, use high quality low E value glass.	The usage of glass was reduced by SIPCOT. Further, the member industries have used high quality low E value glass. The Photographs of high quality low E value glass used by Industries are enclosed as **Annexure – 18.**
xxix	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	It is an infrastructure development project which involves development of roads, stormwater drains, water supply, power supply, street lights, greenbelt development and other such amenities to accommodate the industries. However, individual industries use appropriate thermal insulation materials. Photographs of thermal insulation material provided by Individual industries are enclosed as **Annexure – 19.**
xxx	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is aspirational for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	It is an infrastructure development project which involves development of roads, stormwater drains, water supply, power supply, street lights, greenbelt development and other such amenities to accommodate the industries.
xxxi	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire-fighting equipment's, etc. as per National Building Code including protection measures from lightening etc.	It is an infrastructure development project which involves development of roads, stormwater drains, water supply, power supply, street lights, greenbelt development and other such amenities to accommodate the industries. However, all the member industries are instructed to obtain all necessary clearances / approvals.

S. No	EC Conditions	Status of Compliance
		Adequate fire-fighting equipment's were provided by individual industries, photograph of the same are enclosed as **Annexure – 20**.
xxxii	Regular supervision of the above and other measures for monitoring should be in place all through the development/ construction phase, so as to avoid disturbance to the surroundings.	Condition Noted. Regular supervision of the above and other measures will be monitored by Environmental Management Cell of SIPCOT.
xxxiii	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.	Condition Noted.
xxxiv	The responses/ commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	The Compliance statement of the public hearing queries is enclosed as **Annexure – 21.**
xxxv	2% of the project cost shall be earmarked for Corporate Environment Responsibility activities.	SIPCOT has allocated 2% of the project cost i.e., **₹9.2 Crores** (Rupees Nine Crores Twenty Lakhs Only) exclusively for carrying out CER activities surrounding the SIPCOT Industrial Park, Cheyyar (Phase-II). SIPCOT has requested the District Collector, Tiruvannamalai to submit a detailed proposal specifying CER activities, including provisions for developing facilities for disabled people that could be implemented under CER in the surrounding area of the SIPCOT Industrial Park, Cheyyar (Phase-II). Acknowledgement copy of letter submitted to the District Collector, Tiruvannamalai requesting to submit the proposal for is enclosed as **Annexure – 10**.
xxxvi	Necessary provision to develop facilities for disabled people shall be made under Corporate Environment Responsibility.	
xxxvii	**Corporate Environment Responsibility:** a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.	SIPCOT has formulated a well laid down Environment Policy approved by the Board of Directors in order to comply with the regulatory condition Separate environmental management cell has been formed for implementation monitoring and compliance of the environmental safeguards. Environment Management cell will report to the

S. No	EC Conditions	Status of Compliance
	b) The Environment Policy shall prescribe for standard operating process/ procedures to bring into focus any infringements/ deviation/ violation of the environmental or forest norms/ conditions. c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished. d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.	General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as **Annexure – 7.**

II. Operation Phase

S. No	EC Conditions	Status of Compliance
i	All the topsoil excavated during development/ construction activities should be stored for use in horticulture / landscape development within the project site.	All the excavated top soil has been used for greenbelt development within the industrial park.
ii	Disposal of muck during development/ construction phase should create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	The disposal of muck during development/ construction phase will be carried out with general safety precautions.
iii	The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	The solid waste generated are properly collected, segregated and disposed off to the approved sites after recovering recyclable material. Photograph of solid waste collection cart and the solid waste management area are enclosed as **Annexure – 8.**
iv	Diesel power generating sets proposed as source of back-up power	SIPCOT has not proposed any DG sets for the Project.

S. No	EC Conditions	Status of Compliance
	for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	Individual industries have provided DG sets for their power back up with enclosed type and with sufficient stack height. Photographs of DG sets provided by Individual industries are enclosed as **Annexure – 22.**
v	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Noise levels are being monitored periodically. Day and Night time the noise levels are well within the permissible levels. The noise level monitoring details are enclosed as **Annexure – 13.**
vi	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	SIPCOT has developed greenbelt with adequate width and density across various locations within the industrial park, ensuring green cover throughout the industrial park. Photographs of green belt development by SIPCOT are enclosed as **Annexure – 4**. Additionally, individual industries have developed greenbelts along the periphery of the plots. Photographs of green belt development by Individual Industries are enclosed as **Annexure – 4**.
vii	Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.	Weep holes were provided by the individual industries in the compound walls to ensure natural drainage of rain water during the monsoon period. Photographs of weep holes provided by Individual Industries are enclosed as **Annexure – 23.**
viii	Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 4 mts. Above the highest ground water table.	Rainwater from roof runoff and surface runoff is collected by individual industries within their plots in rainwater collection ponds through stormwater drains. The collected water is then pre-treated and reused for processes or utilities. The Photographs showing the rain water harvesting ponds and storm water drain by individual industries are enclosed as **Annexure – 6&9.** Apart from this, SIPCOT has provided rain water harvesting pits in the project office. The Photographs showing the rain water harvesting pits by SIPCOT are

S. No	EC Conditions	Status of Compliance
		enclosed as **Annexure – 6.**
ix	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	The ground water quality is being monitored regularly and the monitoring report is enclosed as **Annexure –13.** The same will be followed during the operation phase.
x	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking, loading and unloading should be fully internalized and no public space should be utilized.	The parking area, loading and unloading area are internalized within the industrial park and no public space was utilized. Photograph of SIPCOT Project Office Parking area, SIPCOT Truck Parking Area and Individual Industries Parking Area are enclosed as **Annexure – 15**
xi	A Report on the energy conservation measures confirming to energy conservation norms finalise by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc., and submit to the Ministry in three months time.	Energy conservation measures are being implemented by the individual industries. Solar street light and Roof top solar panel photograph by individual industries are enclosed as **Annexure – 24.**
xii	Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.	The Energy conservation measures like installation of LED lights were done for lighting the common areas like project office, internal roads, Solid waste management area, etc. All the member industries are instructed to dispose the wastes through authorised recyclers, as per applicable rules and norms with necessary approvals. Individual industries have provided roof top solar panel and solar lights within their premises. Photographs of solar panel and solar lights provided by individual industries are enclosed as **Annexure – 24.**
xiii	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Buildings have adequate distance for movement of fresh air and passage of natural light, air and ventilation. All industries are mandated to obtain all necessary clearances/approvals before commencement of construction/ operation.

Part – B: General Conditions

S. No	EC Conditions	Status of Compliance

i	The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.	Conditions are being/will be complied.
ii	Provision should be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Agreed to comply
iii	Six monthly monitoring reports should be submitted to the Ministry and it's Regional Office, Chennai.	Six monthly monitoring reports are being submitted at Regional Office of MoEF&CC periodically. The Screenshot showing previous six monthly compliance report uploaded in the portal is enclosed as **Annexure –25.**
iv	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Thasildar's office for 30 days.	Condition complied.
v	The project proponent shall set up a separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Separate environmental management cell has been formed for implementation monitoring and compliance of the environmental safeguards. Environment Management cell will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as **Annexure – 7.**
vi	The funds earmarked for environment management plan shall be include in the budget and this shall not be diverted for any other purpose.	The funds earmarked for environment management plan is included in the budget and this shall not be diverted for any other purpose.
5	The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.	Condition Noted and complied with.
6	Officials from the Regional Office of MoEF&CC at Chennai who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/ data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC should be forwarded to	Condition Noted and will be complied.

	the CCF, Regional Office of MoEF&CC at Chennai.	
7	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Condition Noted and will be complied.
8	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Condition Noted and will be complied.
9	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Condition Noted and will be complied.
10	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in. The advertisement should be made within seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Chennai.	The Newspaper advertisement that the project has been accorded Environmental Clearance is as **Annexure – 26.**
11	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Condition Noted and will be complied.
12	Any appeal against the clearance lies 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.	Nil
13	A copy of the clearance shall be sent by the proponent to the concerned Panchayat, ZilaParishad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom	A copy of the clearance was sent by SIPCOT to the concerned Local Body and the acknowledgement copy is enclosed as

	suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	**Annexure – 27.** Environment Clearance uploaded on the SIPCOT website is enclosed as **Annexure – 28.**
14	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. 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 near the main gate of the company in the public domain.	SIPCOT has been uploading the status of compliance of the stipulated EC conditions, including results of monitored data on their website periodically. Screenshot of compliance report uploaded in our website along with monitoring data is enclosed as **Annexure 25.** Additionally, it has been submitted to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. 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 is being monitored and displayed at near the main gate of the individual industries in the public domain. Same is enclose as **Annexure - 30**
15	The environmental statement for each financial year ending 31st March in Form- Vas 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	The environmental statement for each financial year ending 31st March in Form - V is being submitted to TNPCB and the acknowledgment is attached as **Annexure - 29**

5.0 ENVIRONMENTAL MONITORING DETAILS

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

5.1 Ambient Air Quality Monitoring

During construction phase, particulate matter and gaseous emissions are likely to arise from the site movement of vehicles, operation of DG sets etc., the ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored. The test report of ambient air quality for the period of April 2024 to September 2024 is enclosed as **Annexure - 13.**

5.2 Ambient Noise level monitoring

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

5.3 Soil quality monitoring

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

5.4 Ground water quality monitoring

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

5.5 Surface water quality monitoring

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

6.0 CONCLUSION

1. The environmental monitoring was carried out at site during the period April 2024 to September 2024.

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

Name : Dr. Rajkumar Samuel

Designation : Director Technical

Company Name : Hubert Enviro Care Systems Private Limited.

Annexure 1

F.No.21-181/2014-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Dated: 30th September, 2016

To

The Managing Director,
M/s State Industries Promotion Corporation of Tamil Nadu Ltd,
19/A, Rukmani Lakshmipathy Road, Egmore,
Chennai - 600 008 (Tamil Nadu)

Sub: 'Development of SIPCOT Industrial Park' in Taluka Cheyyar, District Tiruvannamalai (Tamil Nadu) by M/s State Industries Promotion Corporation of Tamil Nadu Limited – Environmental Clearance - reg.

Sir,

This has reference to your application No.DI/EIA-Cheyyar/2016 dated 22.06.2016, submitting the above proposal to this Ministry for grant of Environmental Clearance (EC) in term of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for **'Development of SIPCOT Industrial Park'** in Taluka Cheyyar, District Tiruvannamalai (Tamil Nadu) promoted by M/s State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT), was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 160th meeting held on 28-29 June, 2016.

3. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above said EAC meeting, are reported to be as under:-

(i) The project involves development of Industrial Park in a total area of 931.015 ha in Taluka Cheyyar, District Tiruvannamalai (Tamil Nadu) promoted by M/s State Industries Promotion Corporation of Tamil Nadu Limited. The project location is in the revenue limits of Mangal, Kunnavakkam, Mathur, karanai, Chellaperumbulimedu, Perumbulimedu, Ukkamperrumbakkam, Shozhavaram, Alinjalpattu and Mahajanambakkam villages in Cheyyar Taluk, District Thiruvannamalai (Tamil Nadu).
(ii) The geographical location is 12° 41 '36.50"N to 12° 44 '12.32"N Latitude and 79° 37' 20.20"E to 79° 41' 15.09"E Longitude.
(iii) The proposed park will house industrial units namely, metallurgical industries [item 3(a)] and Induction/Arc Furnaces/Cupola Furnaces of TPH or more [item 5(k)].
(iv) The water demand to the tune of 1 MGD will be made available through SIPCOT managed water supply systems from River Cheyyar. "Zero Waste Objectives" will be mandated to all member industries as precondition for land allotment.

(v) The member units will be mandated to establish ETPs as Zero Liquid Discharge Plants, to reclaim water for reuse/recycle in the utilities, green belt and washings.

(vi) The process solid waste, sludge from ETP/STP will be stored temporally in closed shed, having concrete floor.

(vii) The sludge will be transferred, periodically as per the plan, for pretreatment in Incinerator, if needed and final disposal into Secured land fill. Approved facility for Hazardous Solid waste Management Facility which is in operation at Gummidipoondi, to which the IP members units will transfer the Solid waste.

(viii) All member units will be mandated to develop atleast 35% of the allotted plot area as Green belt with plant and trees.

(ix) **Investment/Cost**: The cost of the project is Rs.460 crore.

(x) The project is not falling in Critically Polluted area.

(xi) **Forest land**: No forest land is involved in the project.

(xii) **Eco-sensitive area**: No specific biological diversity like National parks, wild life sanctuaries, Tiger reserve, Habituate for migratory birds, Mangrove, Wet lands and Botanical/Zoological gardens as Protected area under the Wildlife (Protection) Act, 1972, etc., are found in the project Impact area, i.e. 10 km radius of project area.

(xiii) **Employment Potential**: 5000 Nos.

(xiv) **Benefits of the project**: Environmentally compatible industrial development as Cluster for two types of industries viz., 3(a) and 5 (k).

(xv) Terms of Reference was accorded to the project vide letter No.21-181/2014-IA-III dated 19th March, 2015.

(xvi) **Public Hearing**: Public Hearing was conducted on 5th November, 2015 at Cheyyar.

4. The EAC, in its 160th meeting held on 28-29 June, 2016, has recommended the project for grant of Environmental Clearance. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project **'Development of SIPCOT Industrial Park'** in Taluka Cheyyar, District Tiruvannamalai (Tamil Nadu) promoted by M/s State Industries Promotion Corporation of Tamil Nadu Limited, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

PART A - SPECIFIC CONDITIONS

I. Construction Phase

(i) 'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

(ii) There shall be a continuous green belt along the plant premises, except at the designated entry and exit points.

(iii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured/recorded to ensure the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six Monthly Monitoring reports.

(iv) Special purpose vehicle shall be established for implementation monitoring and compliance of the environmental safeguards.

(v) All the recommendation of the EMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.

(vi) The member units shall provide storage tanks for storage of effluent for monitoring the characteristics of effluent before taking into the CETP for further treatment.

(vii) Proper meters with recording facilities shall be provided to monitor the effluent quality and quantity sent from member industries to CETP and from CETP to the final disposal/re-use on a continuous basis.

(viii) Member industries shall treat the effluent to meet the prescribed CETP inlet norms.

(ix) The project proponent shall establish an environmental monitoring cell with all the potential polluting units as members to review the environmental monitoring data and suggest for improvements.

(x) Internal Road widths within the industrial area shall be minimum 24 m ROW.

(xi) Common facilities such as repair shops, rest rooms for drivers and attendants shall be provided.

(xii) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.

(xiii) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

(xiv) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.

(xv) Parking space to accommodate trucks, cars, two wheelers and bicycles shall be provided as per the norms.

(xvi) Any hazardous waste generated during development/ construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

(xvii) The diesel generator sets to be used during development/ construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.

(xviii) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.

(xix) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.

(xx) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during development/ construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.

(xxi) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.

(xxii) Ready mixed concrete must be used in site development and building construction.

(xxiii) Storm water control and its re-use as per CGWB and BIS standards for various applications.

(xxiv) Water demand during development/construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

(xxv) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.

(xxvi) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.

(xxvii) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

(xxviii) Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on airconditioning. If necessary, use high quality low E value glass.

(xxix) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.

(xxx) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all airconditioned spaces while it is aspirational for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement.

(xxxi) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc.

(xxxii) Regular supervision of the above and other measures for monitoring should be in place all through the development/ construction phase, so as to avoid disturbance to the surroundings.

(xxxiii) Under the provisions of Environment (Protection) Act, 1986, legal actio shall be initiated against the project proponent if it was found tha construction of the project has been started without obtainin environmental clearance.

(xxxiv) The responses/commitments made to the issues raised during publi hearing shall be complied with in letter and spirit. A hard copy of th action taken shall be submitted to the Ministry.

(xxxv) 2% of the project cost shall be earmarked for Corporate Environmen Responsibility activities.

(xxxvi) Necessary provision to develop facilities for disabled people shall be mad under Corporate Environment Responsibility.

(xxxvii) Corporate Environment Responsibility:

a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
b) The Environment Policy shall prescribe for standard operating process/ procedures to bring into focus any infringements/deviation/ violation of the environmental or forest norms/ conditions.
c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

II. <u>Operation Phase</u>

(i) All the topsoil excavated during development/construction activitie should be stored for use in horticulture/landscape development within the project site.

(ii) Disposal of muck during development/construction phase should no create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competen authority.

(iii) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.

(iv) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

(v) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary

of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

(vi) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.

(vii) Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.

(viii) Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 4 mts. above the highest ground water table.

(ix) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.

(x) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking, loading and unloading should be fully internalized and no public space should be utilized.

(xi) A Report on the energy conservation measures confirming to energy conservation norms finalise by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.

(xii) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.

(xiii) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

PART – B: GENERAL CONDITIONS

i) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.

ii) Provision should be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.

iii) Six monthly monitoring reports should be submitted to the Ministry and it's Regional Office, Chennai.

iv) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.

v) The project proponent shall set up a separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.

vii) The funds earmarked for environment management plan shall be include in the budget and this shall not be diverted for any other purpose.

5. The above stipulations would be enforced among others under th provisions of Water (Prevention and Control of Pollution) Act, 1974, the Ai (Prevention and control of Pollution) act 1981, the Environment (Protection) Act 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.

6. Officials from the Regional Office of MoEF&CC at Chennai who would b monitoring the implementation of environmental safeguards should be given ful cooperation, facilities and documents/data by the project proponents durin their inspection. A complete set of all the documents submitted to MoEF&C should be forwarded to the CCF, Regional Office of MoEF&CC at Chennai.

7. In the case of any change(s) in the scope of the project, the project woul require a fresh appraisal by this Ministry.

8. The Ministry reserves the right to add additional safeguard measure subsequently, if found necessary, and to take action including revoking of th environment clearance under the provisions of the Environmental (Protection Act, 1986, to ensure effective implementation of the suggested safeguar measures in a time bound and satisfactory manner.

9. All other statutory clearances such as the approvals for storage of dies from Chief Controller of Explosives, Fire Department, Civil Aviation Department Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall b obtained, as applicable by project proponents from the respective competen authorities.

10. The project proponent should advertise in at least two local Newspaper widely circulated in the region, one of which shall be in the vernacular languag informing that the project has been accorded Environmental Clearance an copies of clearance letters are available with the State Pollution Control Boar and may also be seen on the website of the Ministry of Environment, Forest an Climate Change at http://www.envfor.nic.in. The advertisement should be mad within Seven days from the date of receipt of the Clearance letter and a copy o the same should be forwarded to the Regional office of this Ministry at Chennai.

11. This clearance is subject to final order of the Hon'ble Supreme Court o India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

12. Any appeal against the clearance lies 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.

13. A copy of the clearance shall be sent by the proponent to the concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (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.

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 EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

30/9/2016

(S.K. Srivastava)
Scientist E

Copy to: -

1) The Secretary, Environment & Forests Department, Govt. of Tamil Nadu, Saint Geroge Port, Chennai
2) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-32
3) The Member Secretary, Tamil Nadu State Pollution Control Board, Chennai.
4) The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office, 1st Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 34
5) Guard File
6) Monitoring File

30/9/2016

(S.K. Srivastava)
Scientist E

Annexure - 2

Category of the Industry :

RED

CONSENT ORDER NO. 2201212372473 DATED: 31/05/2022.

PROCEEDINGS NO.T4/TNPCB/F.0663TVM/RL/TVM/A/2022 DATED: 31/05/2022

SUB: TNPC Board Consent for Establishment M/s. SIPCOT INDUSTRIAL PARK, CHEYYAR . S.F. No. 1 to 34,161,163,164 Pt,165 to 198 of Kunnavakkam Village, 222, 223, 225 to 228, 230 to 243, 253 & 255 of Karanai Village, 58 to 70, 285, 288 to 306, 315 to 359 of Mahajanapakkam Village, Cheyyar Taluk, 2, 3A & B, 6 to 10, 12B, 15 A & B, 16 A to C, 17 to 32, 122 (except 13,17), 123 to 139, 140 A & B, 141, 151, 204, 205, 239 to 242, 244 to 250, 410,411,416,417 & 419 & 420 of Sholavaram Village, 2 to 12, 13A, 42 to 47, 54 & 91 of Chellaperumbulimedu Village, 1 to 5, 6A & B, 7, 8, 9A to D, 10 to 12, 13 A & B, 14 A & B, 15,16, 17 A & B, 18, 19A to C, 20, 21A & B, 22 A & B, 23B4 to B6, C , D, 24, 25A,26 to 34, 35 Part, 36 to 44, 47 to 54, 56, 57, 69 to 71, 74 to76, 81 to 84, 139, 140, 146 & 147 of Perumbulimedu Village, 147 to 169, 170/1B2 to 1B5, 170/2pt, 3 pt & 4A1, 179/1, 2A to 2C, 3A to 3E, 4A to 4C, 180 to 182, 183/1, 2 pt, 3, 184 to 190, 191A, 192, 193, 194A, 371 to 376 of Mathur Village, 1, 2, 58A, 61A, 191, 218 & 219 of Mangal Village, 1A, 1B,2, 3, 4A & B, 5, 6A & B, 7A & B, 8A (except 8A/5), 11,12/1C, 2, 3pt, 4C1 to 4C9, 13 to 20, 22, 23 pt(except 6A,6B), 24/1 pt to 3 pt, 26 to 30 of Alinjalpattu Village, 1 to 3 , 8, 19 & 21 of , UKKAMPERUMBAKKAM village, Vembakkam Taluk and Tiruvannamalai 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. 12372473 dated 24.09.2020
2.IR.No : F.0663TVM/RL/AE/TVM/2020 dated 18/12/2020
3.Minutes of the 197th TSC meeting vide item no. 197-3 dated 25.05.2022.

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

The Managing Director,

M/s. SIPCOT INDUSTRIAL PARK, CHEYYAR

S.F No.1 to 34,161,163,164 Pt,165 to 198 of Kunnavakkam Village, 222, 223, 225 to 228, 230 to 243, 253 & 255 of Karanai Village, 58 to 70, 285, 288 to 306, 315 to 359 of Mahajanapakkam Village, Cheyyar Taluk, 2, 3A & B, 6 to 10, 12B, 15 A & B, 16 A to C, 17 to 32, 122 (except 13,17), 123 to 139, 140 A & B, 141, 151, 204, 205, 239 to 242, 244 to 250, 410,411,416,417 & 419 & 420 of Sholavaram Village, 2 to 12, 13A, 42 to 47, 54 & 91 of Chellaperumbulimedu Village, 1 to 5, 6A & B, 7, 8, 9A to D, 10 to 12, 13 A & B, 14 A & B, 15,16, 17 A & B, 18, 19A to C, 20, 21A & B, 22 A & B, 23B4 to B6, C , D, 24, 25A,26 to 34, 35 Part, 36 to 44, 47 to 54, 56, 57, 69 to 71, 74 to76, 81 to 84, 139, 140, 146 & 147 of Perumbulimedu Village, 147 to 169, 170/1B2 to 1B5, 170/2pt, 3 pt & 4A1, 179/1, 2A to 2C, 3A to 3E, 4A to 4C, 180 to 182, 183/1, 2 pt, 3, 184 to 190, 191A, 192, 193, 194A, 371 to 376 of Mathur Village, 1, 2, 58A, 61A, 191, 218 & 219 of Mangal Village, 1A, 1B,2, 3, 4A & B, 5, 6A & B, 7A & B, 8A (except 8A/5), 11,12/1C, 2, 3pt, 4C1 to 4C9, 13 to 20, 22, 23 pt(except 6A,6B), 24/1 pt to 3 pt, 26 to 30 of Alinjalpattu Village, 1 to 3 , 8, 19 & 21 of ,

UKKAMPERUMBAKKAM Village,

Vembakkam Taluk,

Tiruvannamalai District.

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

S.F.No. 1 to 34,161,163,164 Pt,165 to 198 of Kunnavakkam Village, 222, 223, 225 to 228, 230 to 243, 253 & 255 of Karanai Village, 58 to 70, 285, 288 to 306, 315 to 359 of Mahajanapakkam Village, Cheyyar Taluk, 2, 3A & B, 6 to 10, 12B, 15 A &

B, 16 A to C, 17 to 32, 122 (except 13,17), 128 to 139, 140 A & B, 141, 151, 204, 205, 239 to 242, 244 to 250, 410,411,416,417 & 419 & 420 of Sholavaram Village, 2 to 12, 13A, 42 to 47, 54 & 91 of Chellaperumbulimedu Village, 1 to 5, 6A & B, 7, 8, 9A to D, 10 to 12, 13 A & B, 14 A & B, 15,16, 17 A & B, 18, 19A to C, 20, 21A & B, 22 A & B, 23B4 to B6, C , D, 24, 25A,26 to 34, 35 Part, 36 to 44, 47 to 54, 56, 57, 69 to 71, 74 to76, 81 to 84, 135, 140, 146 & 147 of Perumbulimedu Village, 147 to 169, 170/1B2 to 1B5, 170/2pt, 3 pt & 4A1, 179/1, 2A to 2C, 3A to 3E, 4A to 4C, 180 to 182, 185/1, 2 pt, 3, 184 to 190, 191A, 192, 193, 194A, 371 to 376 of Mathur Village, 1, 2, 58A, 61A, 191, 215 & 219 of Mangal Village, 1A, 1B,2, 3, 4A & B, 5, 6A & B, 7A & B, 8A (except 8A/5), 11,12/1C, 2, 3pt, 4C1 to 4C9, 13 to 20, 22, 23 pt(except 5A,6B), 24/1 pt to 3 pt, 26 to 30 of Alinjalpettu Village, 1 to 3 , 8, 19 & 21 of

UKKAMPERUMBAKKAM Village,

Vembakkam Taluk,

Tiruvannamalai District.

This Consent to establish is valid upto **September 29, 2026**, or till the industry obtains consent to operate under Section 21 of the Act (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

RATNAM VIJAYABASKARAN

Digitally signed by RATNAM VIJAYABASKARAN
Date: 2022.06.01 13:06:59 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To

The Managing Director,

M/s SIPCOT INDUSTRIAL PARK, CHEYYAR

State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmipathy Road, Post Box No. 7223, Egmore, Chennai

Fin: 600000

Copy to:

1 The Commissioner, VEMBAKKAM-Panchayat Union, Vembakkam Taluk, Tiruvannamalai District

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THIRUVANNAMALAI

3. The JCEE Monitoring, Tamil Nadu Pollution Control Board, Vellore.

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.	Development of Industrial Park to accommodate industrial units namely Metallurgical Industries -3(a) and Induction/Arc Furnaces/Cupola Furnaces 5 TPH or more- 5(k) as per EIA Notification 2006	931.015	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:**

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

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

4. **Additional Conditions:**

1.The unit shall house Industrial Units as per Environmental Clearance issued by MoEF & CC vide F.No. 21-181/2014 IA-III dated 30.09.2016 in an area of 746.36 ha. (1844.3 acres) earmarked within the SIPCOT Industrial Park Cheyyar as assured in letter dated. 01.02.2022 and Non EC category industries excluding 14 types of highly polluting industries as specified in Annexure I of GO Ms. No 213 dated 30.03.1989 from Dusi Mamandur Lake as Annexure II of the Said GO in an area earmarked as 184.64 ha. (456.26 acres).
2.The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from MoEF & CC vide F.No. 21-181/2014 IA-III dated 30.09.2016.
3.In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTE/ CTO of the Board.
4.In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
5.The unit shall obtain prior Environmental Clearance as per EIA Notification,2006 , if any EC attracting units are housed inside the premises.
6.The unit shall ensure that no process emission is let out from its activity.
7.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.
8.The SIPCOT shall ensure that the allotted units are mandated that all the member industries to develop green belt in 33% of their allotted area.
9.The unit shall allot 5% of the total plot area (931.015 Hectares) for Solid Waste Management.
10.The unit shall ensure that the actual occupying units obtain consent from the TNPCB separately for their establishment & operation and should have valid consent of the Board for their activity.
11.The unit shall remit consent fee in case of revision by the Government.
12.This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.

RATNAM VIJAYABASKARAN

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Date: [illegible]

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.

RATNAM VIJAYABASKARAN

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Date: 2022.06.01 12:06:56 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

Category of the Industry :

RED

CONSENT ORDER NO. 2201112372473 DATED: 31/05/2022.

PROCEEDINGS NO.T4/TNPCB/F.0663TVM/RL//TVM/W/2022 DATED: 31/05/2022

SUB: TNPC Board-Consent for Establishment-M/S SIPCOT INDUSTRIAL PARK, CHEYYAR S.F No. 1 to 34,161,163,164 Pt,165 to 198 of Kunnavakkam Village, 222, 223, 225 to 228, 230 to 243, 253 & 255 of Karanai Village, 58 to 70, 285, 288 to 306, 315 to 359 of Mahajanapakkam Village, Cheyyar Taluk, 2, 5A & B, 6 to 10, 12B, 15 A & B, 16 A to C, 17 to 32, 122 (except 13,17), 123 to 139, 140 A & B, 141, 151, 204, 205, 239 to 242, 244 to 250, 410,411,416,417 & 419 & 420 of Sholavaram Village, 2 to 12, 13A, 42 to 47, 54 & 91 of Chellaperumbulimedu Village, 1 to 5, 6A & B, 7, 8, 9A to D, 10 to 12, 13 A & B, 14 A & B, 15,16, 17 A & B, 18, 19A to C, 20, 21A & B, 22 A & B, 23B4 to B6, C , D, 24, 25A,26 to 34, 35 Part, 36 to 44, 47 to 54, 56, 57, 69 to 71, 74 to76, 81 to 84, 139, 140, 146 & 147 of Perumbulimedu Village, 147 to 169, 170/1B2 to 1B5, 170/2pt, 3 pt & 4A1, 179/1, 2A to 2C, 3A to 3E, 4A to 4C, 180 to 182, 183/1, 2 pt, 3, 184 to 190, 191A, 192, 193, 194A, 371 to 376 of Mathur Village, 1, 2, 58A, 61A, 191, 218 & 219 of Mangal Village, 1A, 1B,2, 3, 4A & B, 5, 6A & B, 7A & B, 8A (except 8A/5), 11,12/1C, 2, 3pt, 4C1 to 4C9, 13 to 20, 22, 23 pt(except 6A,6B), 24/1 pt to 3 pt, 26 to 30 of Alinjalpattu Village, 1 to 3 , 8, 19 & 21 of , UKKAMPERUMBAKKAM Village, Vembakkam Taluk, Tiruvannamalai 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. 12372473 dated 24.09.2020
2.IR.No : F.0663TVM/RL/AE/TVM/2020 dated 18/12/2022
3 Minutes of the 197th TSC meeting vide item no. 197-3 dated 25.05.2022.

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

The Managing Director,
SIPCOT INDUSTRIAL PARK, CHEYYAR

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

S.F. No.1 to 34,161,163,164 Pt,165 to 198 of Kunnavakkam Village, 222, 223, 225 to 228, 230 to 243, 253 & 255 of Karanai Village, 58 to 70, 285, 288 to 306, 315 to 359 of Mahajanapakkam Village, Cheyyar Taluk, 2, 5A & B, 6 to 10, 12B, 15 A & B, 16 A to C, 17 to 32, 122 (except 13,17), 123 to 139, 140 A & B, 141, 151, 204, 205, 239 to 242, 244 to 250, 410,411,416,417 & 419 & 420 of Sholavaram Village, 2 to 12, 13A, 42 to 47, 54 & 91 of Chellaperumbulimedu Village, 1 to 5, 6A & B, 7, 8, 9A to D, 10 to 12, 13 A & B, 14 A & B, 15,16, 17 A & B, 18, 19A to C, 20, 21A & B, 22 A & B, 23B4 to B6, C , D, 24, 25A,26 to 34, 35 Part, 36 to 44, 47 to 54, 56, 57, 69 to 71, 74 to76, 81 to 84, 139, 140, 146 & 147 of Perumbulimedu Village, 147 to 169, 170/1B2 to 1B5, 170/2pt, 3 pt & 4A1, 179/1, 2A to 2C, 3A to 3E, 4A to 4C, 180 to 182, 183/1, 2 pt, 3, 184 to 190, 191A, 192, 193, 194A, 371 to 376 of Mathur Village, 1, 2, 58A, 61A, 191, 218 & 219 of Mangal Village, 1A, 1B,2, 3, 4A & B, 5, 6A & B, 7A & B, 8A (except 8A/5), 11,12/1C, 2, 3pt, 4C1 to 4C9, 13 to 20, 22, 23 pt(except 6A,6B), 24/1 pt to 3 pt, 26 to 30 of Alinjalpattu Village, 1 to 3 , 8, 19 & 21 of ,

UKKAMPERUMBAKKAM Village,
Vembakkam Taluk,
Tiruvannamalai District.

This Consent to establish is valid upto **September 29, 2026**, 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.

RATNAM VIJAYABASKARAN

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To

The Managing Director,

M/s SIPCOT INDUSTRIAL PARK, CHEYYAR,

State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmipathy Road, Post Box No. 7224, Egmore, Chennai

Pin: 600008

Copy to:

1.The Commissioner, VEMBAKKAM-Panchayat Union, Vembakkam Taluk, Tiruvannamalai District

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THIRUVANNAMALAI

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Vellore

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.	Development of Industrial Park to accommodate industrial units namely Metallurgical Industries -3(a) and Induction/Arc Furnaces/Cupola Furnaces 5 TPH or more- 5(k) as per EIA Notification 2006	931.015	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	1	4.2 x 2.95 x 2.72
2.	Soak Pit	1	1.0 x 1.0 x 1.0
b	**Effluent Treatment Plant:**		
Treatment status: No trade effluent and hence does not arise			
Sl. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1			

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

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1	Sewage	1.27	SIPCOT own land
Effluent Type : Trade Effluent			

4. **Special Additional Conditions:**

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

5. **Additional Conditions:**

1.The unit shall house Industrial units as per Environmental Clearance issued by MoEF & CC vide F.No. 21-181/2014 IA-III dated 30.09.2016 in an area of 746.36 ha. (1844.3 acres) earmarked within the SIPCOT Industrial Park Cheyyar as assured in letter dated. 01.02.2022 and Non EC category industries excluding 14 types of highly polluting industries as specified in Annexure I of GO Ms. No 213 dated 30.03.1989 from Dusi Mamandur Lake as Annexure II of the Said GO in an area earmarked as 184.64 ha. (456.26 acres).
2.The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from MoEF & CC vide F.No. 21-181/2014 IA-III dated 30.09.2016.
3.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.
4.The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
5.In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTE/ CTO of the Board.
6.In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
7.The unit shall obtain prior Environmental Clearance as per EIA Notification, 2006, if any EC attracting units are housed inside the premises.
8.This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
9.The unit shall obtain necessary clearances from the appropriate authorities for the stability of all the structures and ETP/ STP.
10.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.
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 SIPCOT shall house industries in the industrial park in compliance to the provisions of G.O.Ms.No.213 of Environment and Forest (EC-1) Department dated 30.03.1989 and G.O.Ms.No.127 of Environment and Forest (EC-3) Department dated 08.05.1998.
16.The SIPCOT shall ensure that the allotted units are mandated to implement own sewage treatment system for treating and disposing the sewage and shall ensure that no treated / untreated sewage shall gain access outside the unit premises on land / water source under any circumstances.
17.The unit shall allot 5% of the total plot area (931.015 Hectares) for Solid Waste Management.
18. The SIPCOT shall ensure that the allotted units not dig any well or bore well inside their premises for drawing of ground water.
19.The SIPCOT shall ensure that the allotted units are mandated that the water courses/pathai leading to the Water bodies located in the surroundings will not be disturbed and in this regard a condition shall be imposed in the allotment order to the member units.
20.The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
21.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.
22.The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
23.The unit shall adopt safe and environment friendly management practices within the premises.
24.The unit shall provide solar powered lights for illumination of common areas, lighting for gardens and street lighting.
25.The unit shall earmark the buffer zone all around the periphery of the layout.
26.The unit shall ensure that the actual occupying units obtain consent from the TNPCB separately for their establishment & operation and should have valid consent of the Board for their activity.
27.The unit shall comply with the E- waste Management Rules, 2016. E-waste as listed in Schedule – I generated by them shall be channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of e- waste generated by them in Form – 2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form -3 to the TNPCB on or before the 30th day of June following the financial year.
28.The unit shall remit consent fee in case of revision by the Government.

RATNAM VIJAYABASKARAN

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Date: 2022.06.01 14:00:43 +05'30'

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.

RATNAM VIJAYARAVIKARAN

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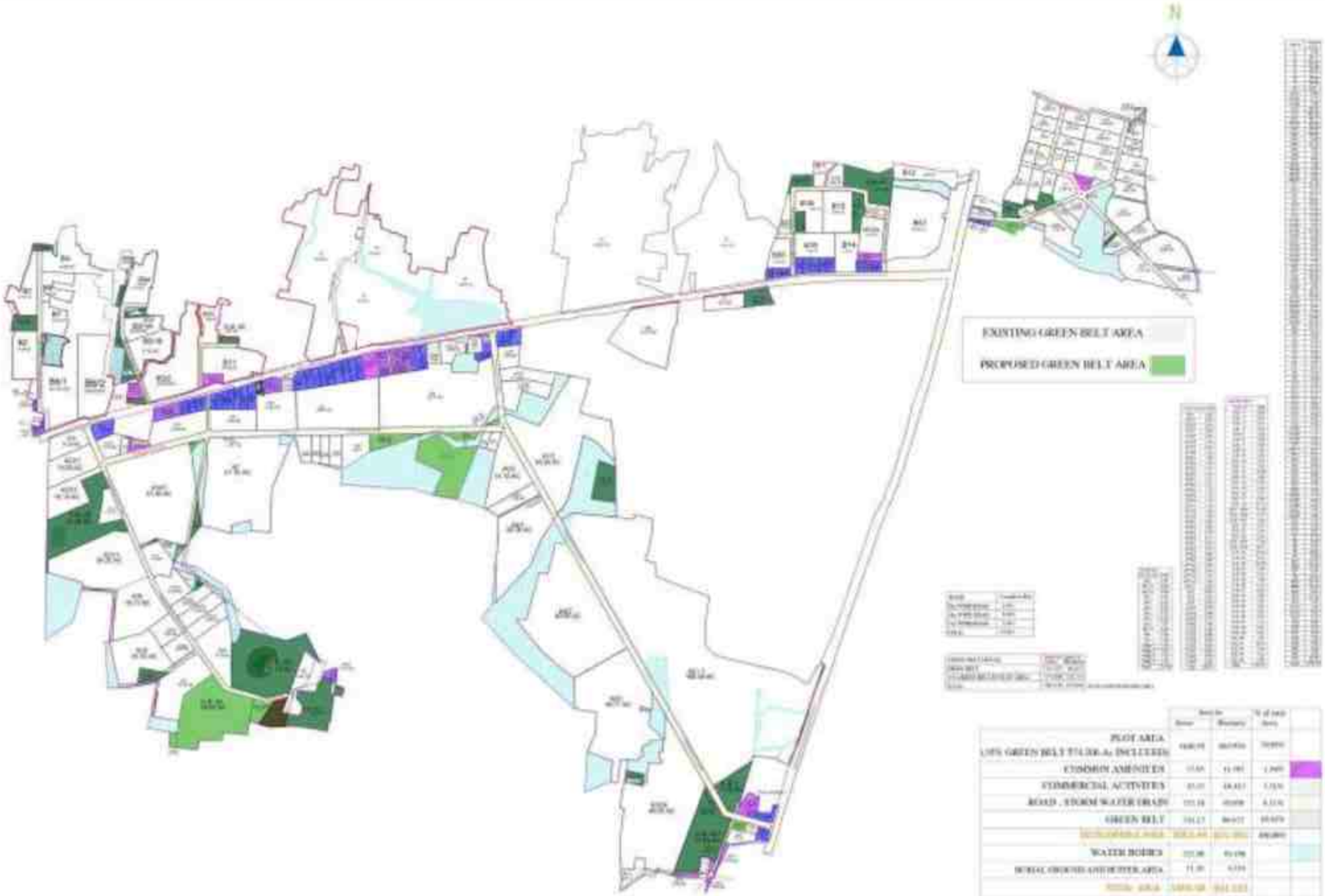
Date: 2021.03.01 14:01:12 +05'30'

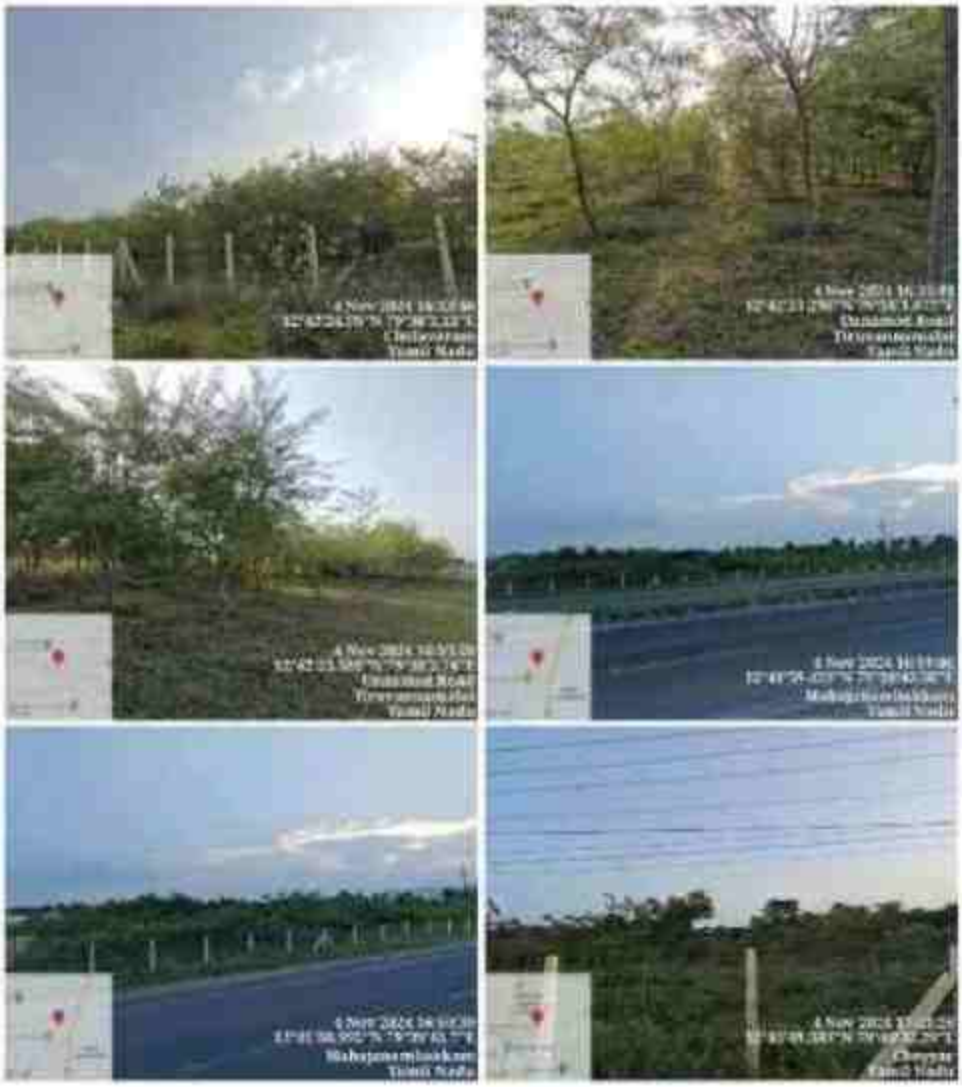
For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

TENTATIVE LAYOUT PLAN OF SIPCOT INDUSTRIAL COMPLEX, CHEYYAR - PHASE-II, TIRUVANNAMALAI DISTRICT.



Annexure - 4

SIPCOT-GREENBELT



INDIVIDUAL INDUSTRIES – GREENBELT

Annexure - 5

AUTOLIV – ETP

GLOBAL PHARMA – ETP






SCHWING STETTER-ETP

AUTOLIV-STP

GLOBAL PHARMA - STP

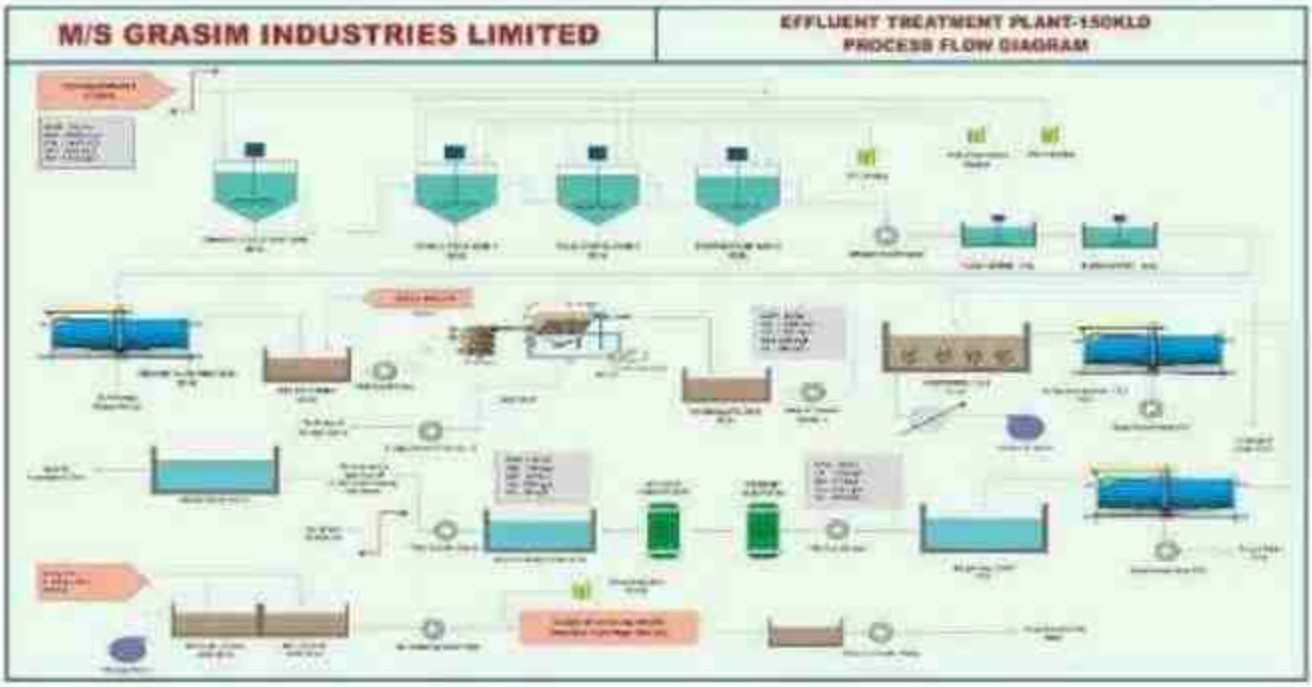
Grasim ZLD plant

ZLD FACILITY

Installed a Zero Liquid Discharge (ZLD) facility in our paint industry marks a pivotal stride toward realizing 100% recycling. This system ensures the comprehensive treatment and reuse of all wastewaters generated during our paint manufacturing processes. By implementing ZLD, we significantly diminish our environmental footprint while optimizing the utilization of resources. Compliance with regulatory standards is not only met but exceeded, underscoring our unwavering dedication to sustainability and responsible industrial practices.

1. **100 KLD OF ACTIVATED SLUDGE PROCESS TREATMENT**
2. **100 KLD DT RO Plant**
3. **15 KLD of MEE & ATFD**

EFFLUENT TREATMENT PLANT- PROCESS FLOW DIAGRAM



EFFLUENT TREATMENT PLANT PROCESS

Equalization/ Neutralization Tanks

Process effluents (emulsion, wash water, barrel decontamination, scrubber and WTP) will be received in four Equalization cum Neutralization Tanks. Backwash from PSF and ACF, centrate from primary & secondary decanters, overflow and drains generated & collected in centrate sump shall be routed in the equalization / neutralization tanks.

Flash Mixing Tank, Flocculator & Primary Clarifier

Effluent will be received in flash mixing tank followed by flocculator. Flash mixing tank and flocculator shall be in Reinforced Cement Concrete with Epoxy Painting (RCCEP) construction and the agitators shall be in SS316. Effluent from the flash mixing tank & flocculator shall gravitate into primary clarifier wherein suspended solids shall be removed.

Dissolved Air Floatation (DAF)

DAF shall further reduce the TSS and floating matter in the effluent. DAF system shall be designed and operated in the recycle flow pressurization mode where a portion of clarified effluent shall be continuously recycled; Supernatant from DAF system will be mixed with utility effluent in the Intermediate Storage Tank for further treatment.

Biological Treatment

Two stage activated biological treatment is provided for the reduction of COD and BOD . Two stage activated sludge process shall be considered for treatment employing Aeration tanks and Clarifiers. Both aeration tanks are provided with Bio-clarifiers and recirculation pumps for the Bio sludge recirculation. Nutrient dosing is provided in aeration tank 1&2.

Secondary Clarifier – 1 and 2

Secondary Clarifier tanks will be in RCC construction and the mechanisms shall be in MSEP construction. FRP Feed well is provided at the center of the clarifier mechanism. Secondary Clarifiers shall be complete with central driven mechanism to be mounted on RCC platform of the circular clarifier tanks . equipped with torque overload switches

Tertiary Clarifier

Tertiary Clarifier shall aid in further reduction of organic/refractory load by chemical treatment. Coagulant and flocculant dosing through static mixer shall be carried out in Tertiary Clarifier

Filter Feed Tank

The clarified effluent from tertiary clarifier shall be collected in RCC Filter Feed Tank. Sodium hypochlorite shall be dosed in this tank for disinfection of the effluent.

In case of Sodium Hypochlorite dosing, Filter Feed Tank would be provided with baffle arrangement to ensure mixing of effluent and sodium hypochlorite.

Media Filtration [(PSF) followed by Activated Carbon Filter (ACF)]

PSF and ACF shall reduce suspended particles, turbidity, residual organics and other impurities from the effluent. The filter vessels shall be vertical in configuration with dished ends and shall be of MSEP construction. Suitable distribution systems shall be provided for both filters.

Treated Effluent Tank

Treated effluent tank shall receive the filtered effluent from ACF. Treated effluent tank shall be in Zinc Aluminum or similar MOC and included in purchaser scope. All the piping between tank and pumps, instrumentation in tank are not considered in our scope .

EQUALIZATION TANKS

AERATION TANKS- 1 & 2

PRIMARY, SECONDARY AND TERTIARY CLARIFIERS

DECANTER & DAF SYSTEM

CHEMICAL DOSING SYSTEM, PSF & ACF

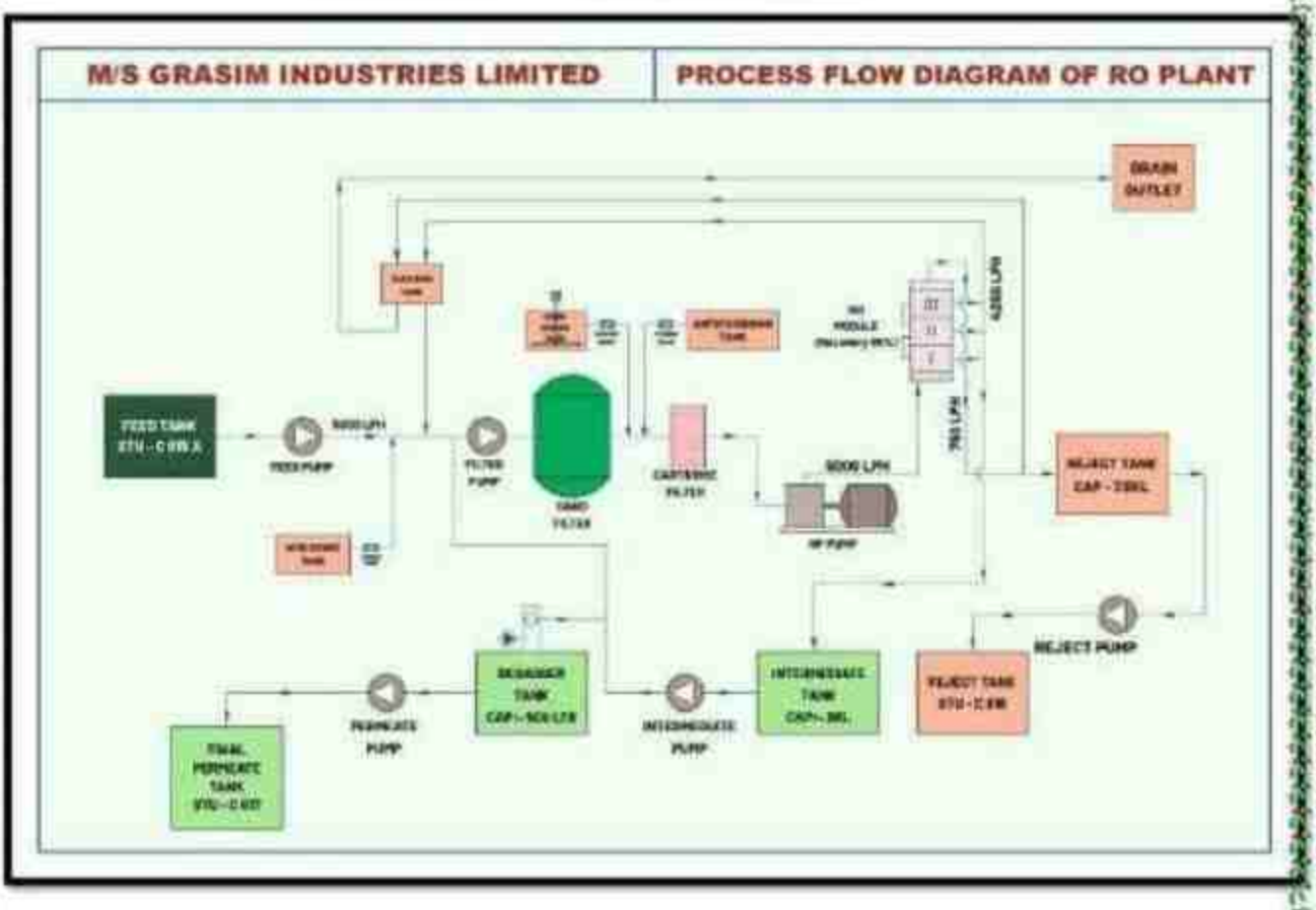
REVERSE OSMOSIS (DT-RO PLANT)

RO Plant Operation:

The treated effluent is pumped into the system by the pre - filter pump (Rochem Separation Ltd) at the inlet of the filter pump. The filter pump further ensures that sufficient pressure is maintained in the system for normal operation. The effluent water is then filtered by the sand filter and the cartridge filter which removes the foreign suspended materials. The filtered water is pressurized up to 60 bars by the high pressure pump.

The treated water from Biological treatment plant water is processed through RO-I, II & III respectively and the permeate water from the RO is recycled through non process / process applications. The reject from the RO I & II & III are sent to Multiple Effect Evaporator (MEE) for further processing. The permeate water from the RO meets the potable water specification on all physio chemical analysis

REVERSE OSMOSIS - PROCESS FLOW DIAGRAM



MULTIPLE EFFECT EVAPORATOR & AGITATED THIN FILM DRIER (MEE & ATFD)

Feed passes through shell and tube heat exchanger in the tubes. To start the evaporation process external steam is being provided to the shell side of the calandria for heating of the tubes. Due to conductive heat transfer, steam passes its latent heat to effluent and evaporation of water from the effluent takes place. A water-vapor mixture is being generated which goes to Vapor-Liquid Separator called VLS.

In VLS, vapor is separated from water vapor mixture by means of gravity. While the concentrated liquid is recirculated in the calandria by a recirculation pump. Now the pure water vapor from VLS is either condensed in condenser or will be used as a heating medium in subsequent effect. The vapor of the 1^{st} effect is used as a Heating Source for the 2^{nd} effect and so on up to designed effect. thus, similarly vapor form the initial effect used as a heating medium for the further effect. Thus, there is no steam is required individual effect except for the 1^{st} effect.

Annexure - 6

SIPCOT -RAIN WATER HARVESTING

INDIVIDUAL INDUSTRIES - RAINWATER HARVESTING

GRASIM
STORM WATER AND ROOF WATER COLLECTION FACILITIES

ENVIRONMENTAL MANAGEMENT CELL

1. INTRODUCTION:

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

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

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

Figure - 1 Organogram for Environmental Management Cell

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

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

2.2. Other responsibilities of the cell will include:

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

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

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

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

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

Table – 1: Roles and responsibilities of EMC

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

Annexure – 8

Photograph of Solid Waste Management Area

Photograph of Solid Waste Collection Cart

Photograph of Solid Waste Management by Individual Industries

Photograph of Solid Waste Management in SIPCOT Project Office

INDUSTRIAL - STORM WATER DRAIN

Annexure - 9

SIPCOT – STROM WATER DRAIN

Annexure 10

SIPCOT

P-IV/EC/Cheyyar/CER/District_Admin/2024 Date: 19.11.2024

To,
The District Collector, /RPAD/
Collectorate, Vengikkal,
Tiruvannamalai – 606 604.

Sir,

Sub: SIPCOT – Allocation of Fund under Corporate Environment Responsibility (CER) in respect of the proposed SIPCOT Industrial Park, Cheyyar (Phase-II) - Requisition of Proposal – Reg.

Ref: MoEF&CC EC vide F.No. 21-181/2014-IA.III dated 30.09.2016 (copy enclosed).

*****

In the reference cited above, the Ministry of Environment Forest & Climate Change (MoEF&CC) has granted Environmental Clearance (EC) to SIPCOT for the Development of SIPCOT Industrial Park at Mangal, Kunnavakkam, Mathur, Karanai, Chellaperumbulimedu, Perumbulimedu, Ukkamperumbakkam, Shozhavaram, Alinjalpattu and Mahajanambakkam Villages, Cheyyar and Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu over an extent of 931.015 Ha (2300.58 Acres).

In the Environmental Clearance, MoEF&CC has stipulated certain conditions under Part A – Specific Conditions, Construction Phase, as follows:

(xxxv): 2% of the project cost shall be earmarked for Corporate Environment Responsibility activities.

(xxxvi): Necessary Provision to develop facilities for disabled people shall be made under Corporate Environment Responsibility.

Corporate Environment Responsibility (CER) means, it is the responsibility of the project proponent to contribute towards economic, social and environmental development that creates positive impact on society at large.

According to the MoEF&CC Office Memorandum F. No. 22-65/2017-IA III dated 01.05.2018, Corporate Environmental Responsibility activities include infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste

P.T.O.

State Industries Promotion Corporation of Tamil Nadu Limited
(A Government of Tamil Nadu Undertaking)
CIN : U74999TN1971SGC005967
Regd. Office : 19-A, Rukmani Lakshmipathy Road, Post Box No.7223, Egmore, Chennai - 600 008.
Phone : 45261777, Fax : 45261796 Website : www.sipcot.tn.gov.in

SIPCOT

management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas, etc. Further, it is stated that these activities are to be carried out only in the areas surrounding the project.

In accordance with the EC condition, SIPCOT has allocated ₹9.2 Crores (Rupees Nine Crores Twenty Lakhs Only) exclusively for carrying out CER activities surrounding the SIPCOT Industrial Park, Cheyyar (Phase-II).

We therefore request you to submit a detailed proposal specifying activities from the list above, including provisions for developing facilities for disabled people, that could be implemented under CER in the surrounding area of the SIPCOT Industrial Park, Cheyyar (Phase-II).

We would like to inform you that the expenses to be incurred towards CER activity is meant for capital expenditure alone, not for recurring and care shall be taken to ensure that no duplication of above CER activity is undertaken with that of existing programmes run by Central, State and Local Governments.

Yours faithfully,

MANAGING DIRCETOR

Encl: As above.

Copy to:
The Project Officer,
SIPCOT Industrial Park,
Cheyyar.

SIPCOT DESPATCHED
20 NOV 2024
S.L. No. 25
Signature

State Industries Promotion Corporation of Tamil Nadu Limited
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ROAD AREA

Annexure - 11

TOILET FOR CONSTRUCTION WORKERS

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

Annexure 13

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

TEST REPORT

ULR : TC123102400004501SF
Report No : HECS/AP/030/200924
Sample ID No : 200924076
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	5.97	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ: 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	23.18	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	16.35	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	48.11	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	23.76	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	10.32	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Microgram per cubic meter, mg/m³-Milligram per cubic meter, ng/m³-Nanogram per cubic meter.

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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

TEST REPORT

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

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

Report No : HECN/AP/030/200924/N
Sample ID No : 200924076
Sampling Date : 20/09/2024

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

ULR : TC123102400000450016F
Report No : HECS/AP/031/200924
Sample ID No : 200924077
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	5.19	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ: 0.03)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	24.82	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	10.17	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	53.87	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	26.55	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	14.93	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

HECS-G/Q/FMT/49

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru VI Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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

TEST REPORT

Report No : HECS/AP/031/200924/N
Sample ID No : 200924077
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Chyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

ULR : TC123102400000450017F
Report No. : HECS/AP/032/200924
Sample ID No : 200924078
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date 01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date 01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	6.47	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	20.85	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	13.54	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	49.27	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	23.63	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	11.47	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ 0.002)	HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date 01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Report No : HECS/AP/032/200924/N
Sample ID No : 200924078
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400004501 8F
Report No : HECS/AP/033/2009/24
Sample ID No : 2009240 79
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	7.75	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	25.97	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	10.53	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	56.19	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	18.72	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	8.92	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ 0.002)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Microgram per cubic meter, mg/m³-Milligram per cubic meter, ng/m³-Nanogram per cubic meter.

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Report No : HECS/AP/033/20/0924/N
Sample ID No : 200924079
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

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

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

End of Report

D.Anuraya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

Laboratory Services Division
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TEST REPORT

U1.R : TC123102400004501 9F
Report No : HECS/AP/034/200924
Sample ID No : 200924080
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date 01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2009	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	8.21	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ: 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxide as NO2	µg/m³	24.95	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	12.31	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	54.45	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	20.29	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	14.30	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m³	BLQ (LOQ 0.002)	HECS-G/INS/SOP/ 041 Issue No :01 Issue Date 01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Microgram per cubic meter, mg/m³-Milligram per cubic meter, ng/m³-Nanogram per cubic meter.

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
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TEST REPORT

Report No : HECS/AP/034/200924/N
Sample ID No : 200924080
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12318

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TEST REPORT

ULR : TC123182400004509SF
Report No : HECS/PE/017/200924
Sample ID No : 200924082
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-GENS/SOP/ 042 Issue No. 01 Issue Date:01.03.2021
2	Chromium	mg/kg	31.05	HECS-GENS/SOP/042 Issue No. 01 Issue Date:01.03.2021
3	Copper	mg/kg	9.41	HECS-GENS/SOP/ 042 Issue No. 01 Issue Date:01.03.2021
4	Zinc	mg/kg	23.51	HECS-GENS/SOP/ 042 Issue No. 01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	29.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	41.5	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	28.7	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 °C (1 : 2.5)	-	8.22	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	192.0	IS 14767: 2000

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

D.Anuuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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(Chemical & Biological Testing)
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TEST REPORT

ULR : TC123102400004509BF
Report No. : HECS/PE/017/200924
Sample ID No : 200924082
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Bulk Density	gm/cm3	1.10	FAO of United Nations Rome 2007
13	Organic Carbon	%	0.54	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.94	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	8.60	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No. 01 Issue Date:02.07.2020
16	Total Nitrogen as N	%	0.0262	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	8.84	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	8.26	FAO of United Nations, Rome Chapter - III 2008
19	Infiltration Rate	mm/hr	7.5	Inhome method
20	Cation Exchange Capacity	mEq/100g	6.2	IS 2720 (Part 24) Clause 5 1976
21	Moisture	%	8.12	HECS-G/ENV/SSW/SOP/003 Issue No. 01 Issue Date:02.07.2020
22	Water Holding capacity	%	19.5	IS 14765: 2000
23	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No. 01 Issue Date:02.07.2020
24	Phosphorous	PPB	15.50	FAO of United Nations, Rome Chapter - III 2008

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

End of Report

D.Amutha
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Report No : HECS/PE/017/200924/N
Sample ID No : 200924082
Sampling Date : 20/09/2024

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	127.82	HECS-G/INS/SOP/042
2	Iron	mg/kg	7.34	Inhouse method

Note:- mg/kg- Milligrams per Kilogram.

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

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TEST REPORT

ULR : TC123102400804509 9F
Report No. : HECS/PI/018/200924
Sample ID No : 200924083
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Mennalur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/ENS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	30.46	HECS-G/ENS/SOP/042 Issue No :01 Issue Date:01.03.2021
3	Copper	mg/kg	8.13	HECS-G/ENS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	21.85	HECS-G/ENS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	28.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	37.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	34.4	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 °C (1 : 2.5)	-	8.24	IS 2720 (Part 26): 1987
10	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	315.0	IS 14767: 2000

D.Anuvya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-13310

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

TEST REPORT

ULR : TC123102400000450991F
Report No : HECS/PE/018/200924
Sample ID No : 200924083
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Mennalur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Bulk Density	gm/cm3	1.24	FAO of United Nations Rome 2007
13	Organic Carbon	%	0.41	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.72	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	11.34	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/016 Issue No.:01 Issue Date:02.07.2020
16	Total Nitrogen as N	%	0.0342	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	ml/g/L	9.64	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	ml/g/L	8.54	FAO of United Nations, Rome Chapter - III 2008
19	Infiltration Rate	mm/hr	5.34	Inhouse method
20	Cation Exchange Capacity	mEq/100g	5.8	IS 2720 (Part 24) Clause 5 1976
21	Moisture	%	4.68	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07.2020
22	Water Holding capacity	%	20.8	IS 14765 2000
23	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02.07.2020
24	Phosphorous	ppm	6.54	FAO of United Nations, Rome Chapter - III 2008

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

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

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Report No : HECS/PE/018/200924/N
Sample ID No : 200924083
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Meenalur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	134.08	HECS-GENS/SOP/042
2	Iron	mg/kg	5.48	Inhouse method

Note:- mg/kg- Milligrams per kilogram.

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400004510OF
Report No : HECS/PE/019/200924
Sample ID No : 200924084
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Kumavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-GINS/SOP/042 Issue No: 01 Issue Date:01.03.2021
2	Chromium	mg/kg	31.81	HECS-GINS/SOP/042 Issue No:01 Issue Date:01.03.2021
3	Copper	mg/kg	9.41	HECS-GINS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	31.97	HECS-GINS/SOP/ 042 Issue No :01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	39.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	27.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	32.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 °C (1 : 2.5)	-	7.34	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	810.0	IS 14767: 2000

D.Anuuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

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TEST REPORT

ULR : TC123102400000451001F
Report No : HECS/PT/019/280924
Sample ID No : 2809240084
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Kunnavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Receival Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Bulk Density	gm/cm3	1.28	FAO of United Nations Rome 2007
13	Organic Carbon	%	0.41	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.72	IS 2720 (Part 22) Section I 1972
14	Available Potassium	ml'q/100g	14.12	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No:01 Issue Date:02.07.2020
16	Total Nitrogen as N	%	0.0405	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	7.48	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	6.42	FAO of United Nations, Rome Chapter - III 2008
19	Infiltration Rate		8.74	Inhouse method
20	Cation Exchange Capacity	mEq/100g	6.4	IS 2720 (Part 24) Clause 5 1976
21	Moisture	%	8.20	HECS-G/ENV/SSW/SOP/003 Issue No:01 Issue Date:02.07.2020
22	Water Holding capacity	%	20.2	IS 14765: 2000
23	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No:01 Issue Date:02.07.2020
24	Phosphorous	mg/L	18.10	FAO of United Nations, Rome Chapter - III 2008

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Report No : HECS/PE/619/200924/N
Sample ID No : 200924084
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Kunnavalchum
Sample Reference : NA
Sample Drawn By : M/s Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	150.18	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	8.24	Inhouse method

Note:- mg/kg- Milligrams per kilogram.

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400000451011F
Report No. : HECS/PE/020/200924
Sample ID No : 200924085
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Muthur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-GHS/SOP/ 042 Issue No. 01 Issue Date 01.03.2021
2	Chromium	mg/kg	20.51	HECS-GHS/SOP/042 Issue No. 01 Issue Date 01.03.2021
3	Copper	mg/kg	7.15	HECS-GHS/SOP/ 042 Issue No. 01 Issue Date 01.03.2021
4	Zinc	mg/kg	28.19	HECS-GHS/SOP/ 042 Issue No. 01 Issue Date 01.03.2021
5	Soil Texture	-	Silt loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	17.9	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture i)Silt	%	55.2	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	26.9	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 °C (1 : 2.5)	-	8.42	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	290.0	IS 14767: 2000

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400000451011F
Report No. : HECS/PE/020/200924
Sample ID No : 200924085
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Mathur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Bulk Density	gm/cm3	1.18	FAO of United Nations Rome 2007
13	Organic Carbon	%	0.51	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.89	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	5.43	FAO of United Nations, Rome Chapter - III 2006
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No. 01 Issue Date:02.07.2020
16	Total Nitrogen as N	%	0.0290	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	ml/q/L	10.52	FAO of United Nations, Rome Chapter - III 2006
18	Exchangable Magnesium as Mg	ml/q/L	8.64	FAO of United Nations, Rome Chapter - III 2006
19	Infiltration Rate	mm/hr	8.8	Inhouse method
20	Cation Exchange Capacity	mEq/100g	2.7	IS 2720 (Part 24) Clause 5 1976
21	Moisture	%	8.62	HECS-G/ENV/SSW/SOP/003 Issue No. 01 Issue Date:02.07.2020
22	Water Holding capacity	%	33.2	IS 14765 2000
23	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No. 01 Issue Date:02.07.2020
24	Phosphorous	g/g	16.12	FAO of United Nations, Rome Chapter - III 2006

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

End of Report

D.Anuswya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
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TEST REPORT

Report No : HECS/PE/020/200924/N
Sample ID No : 200924085
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Mather
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA;2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	132.46	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	4.54	Inhouse method

Note:- mg/kg- Milligrams per kilogram.

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-5208

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TEST REPORT

ULR : TC123102400045107F
Report No. : HECS/PE/021/200924
Sample ID No : 200924086
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Pandiyambakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-GINS/SOP/042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	31.01	HECS-GINS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.13	HECS-GINS/SOP/042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	24.19	HECS-GINS/SOP/042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture (Sand	%	39.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture (Silt	%	41.4	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture (Clay	%	19.4	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 °C (1 : 2.5)	-	7.92	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	110.0	IS 14767: 2000

D.Anuraya
Lab Manager
Authorized Signatory

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

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
BIS FSSAI Notified Laboratory
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TEST REPORT

ULR : TC123102400094510TF
Report No. : HECS/PE/021/200924
Sample ID No : 200924086
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Pandiyambakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Bulk Density	gm/cm3	1.12	FAO of United Nations Rome 2007
13	Organic Carbon	%	0.55	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.96	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	ml/q/100g	9.58	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02.07.2020
16	Total Nitrogen as N	%	0.0285	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	ml/q/L	9.48	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	ml/q/L	7.94	FAO of United Nations, Rome Chapter - III 2008
19	Infiltration Rate	mm/hr	10.41	Inhouse method
20	Cation Exchange Capacity	ml/q/100g	5.3	IS 2720 (Part 24) Clause 5 1976
21	Moisture	%	7.02	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07.2020
22	Water Holding capacity	%	32.8	IS 14765: 2000
23	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02.07.2020
24	Phosphorous	µg/g	10.40	FAO of United Nations, Rome Chapter - III 2008

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

End of Report

D.Anuuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Report No : HECS/PE/021/200924/N
Sample ID No : 200924086
Sampling Date : 20/09/2024

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : Pandiyambakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	136.9	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	4.52	Inhouse method

Note:- mg/kg- Milligrams per kilogram.

End of Report

D.Anuuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400004510 8F
Report No : HECSL/WT/018/200924
Sample ID No : 200924087
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Kunnavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Conditions : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 34/Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ 0.05)	APHA 23rd edition (Method 5540 H , C): 2017	0.2	1
3	Bi carbonate	mg/l	170.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ 2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ 0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	58.11	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ 1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ 6.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	107.78	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ 1.0)	IS 3025 (Part 4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ 0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 (Termetric Method)	NA	NA

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

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(Chemical & Biological Testing)
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TEST REPORT

ULR : TC123102400004510SF
Report No. : HECSL/WT/018/200924
Sample ID No. : 200924087
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Kunnavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	809.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.41	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.066	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	31.39	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	2.71	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	30.05	HECS/WT/SOP/032: 2019	NA	NA
19	pH at 25°C	-	7.66	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	5.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	0.2	1.0
23	Sodium Adsorption Ratio(SAR)	Square root of (milliequivalit/lit	1.45	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	55.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12598

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
BIS FSSAI Notified Laboratory
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TEST REPORT

ULR : TC123102400004518SF
Report No : HECSL/WT/018/200924
Sample ID No : 200924087
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Kunnavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	61.34	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)	200	600
26	Total alkalinity as CaCO3	mg/l	170.0	IS 3025 (Part 23): 1986	500	2000
27	Total dissolved solids	mg/l	445.0	IS 3025 (Part 16): 1984	NA	NA
28	Total Suspended Solids	mg/l	BLQ(LOQ 2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO4	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	200	600
31	Total hardness as CaCO3	mg/l	270.0	IS 3025 (Part 21): 2009	1	5
32	Turbidity, NTU	NTU	BLQ(LOQ 0.1)	IS 3025 (Part 10): 1984	0.01	No relaxation
33	Arsenic	mg/l	BLQ (LOQ 0.005)	USEPA 200.8 : 1994	0.7	No relaxation
34	Barium	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.001	No relaxation
35	Cadmium	mg/l	BLQ (LOQ 0.001)	USEPA 200.8 : 1994	0.03	No relaxation
36	Chromium	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.05	1.5
37	Copper	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.01	No relaxation

D.Anuvuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400000451085F
Report No : HECSL/WT/018/200924
Sample ID No : 200924087
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Kunnavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Report No : HECSL/WT/018/200924/N
Sample ID No : 200924087
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Port EC

Group : Water
Sample Name : Ground Water
Sample Mark : Kunnavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

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

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

End of Report

D.Anuraya
Lab Manager
Authorized Signatory

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

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

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

TEST REPORT

ULR : TC123102400000451091F
Report No. : HECSL/WT/019/200924
Sample ID No : 200924088
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Near Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ 0.05)	APHA 23rd edition (Method 5540 B ,C): 2017	0.2	1
3	Bi carbonate	mg/l	190.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ 0.1)	IS 3025 Part 57 :Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	64.13	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	161.67	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.4	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400004510911
Report No. : HECSL/WT/019/280924
Sample ID No : 200924088
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Near Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	961.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.45	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.064	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	36.45	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	5.44	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	35.23	HECS/WT/SOP/002:: 2019	NA	NA
19	pH at 25°C	-	7.21	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	9.6	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	0.2	1.0
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	1.99	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	83.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

Laboratory Services Division
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TEST REPORT

ULR : TC123102400004510 9F
Report No. : HECSL/WT/019/280924
Sample ID No : 280924088
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Near Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	43.97	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	400
26	Total alkalinity as CaCO3	mg/l	190.0	IS 3025 (Part 23): 1986	200	2000
27	Total dissolved solids	mg/l	528.0	IS 3025 (Part 16): 1984	NA	NA
28	Total Suspended Solids	mg/l	BLQ(LOQ 2.0)	IS 3025 (Part 17): 1988	NA	NA
29	Phosphate as PO4	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	200	600
31	Total hardness as CaCO3	mg/l	310.0	IS 3025 (Part 21): 2009	1	5
32	Turbidity, NTU	NTU	BLQ(LOQ 0.1)	IS 3025 (Part 10): 1984	0.01	No relaxation
33	Arsenic	mg/l	BLQ (LOQ 0.005)	USEPA 200.8 : 1994	0.7	No relaxation
34	Barium	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.003	No relaxation
35	Cadmium	mg/l	BLQ (LOQ 0.001)	USEPA 200.8 : 1994	0.05	No relaxation
36	Chromium	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.05	1.5
37	Copper	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.01	No relaxation

D.Apuxoya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400045109F
Report No : HECSL/WT/019/200924
Sample ID No : 200924088
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Near Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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(Chemical & Biological Testing)
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TEST REPORT

Report No. : HECSL/WT/019/200924/N
Sample ID No : 200924088
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Near Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Conditions : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr^{6+}	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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

End of Report

D.Anusuya Lab
Manages Authorized
Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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(Chemical & Biological Testing)
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TEST REPORT

ULR : TC123102400045110F
Report No : HECSL/WT/020/200924
Sample ID No : 200924089
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Pandiyambakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	mg/l	280.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	60.12	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	97.99	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-5219

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
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TEST REPORT

ULR : TC123102400004511OF
Report No : HECSL/WT/020/200924
Sample ID No : 200924089
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Pandiyambakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	923.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.44	APHA 23rd edition (Method 4500F-B , D): 2017	1.0	1.5
15	Iron as Fe	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	29.16	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	5.14	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	28.59	HECS /WT/SOP/002 : 2019	NA	NA
19	pH at 25°C	-	7.98	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.0001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	4.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ 1.0)	IS 11624: 2019	0.2	1.0
23	Sodium Adsorption Ratio(SAR)	Square root of (milliequivalent/l)it	1.34	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	51.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

Laboratory Services Division
(Chemical & Biological Testing)
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TEST REPORT

ULR : TC123102400004511 0F
Report No. : HECSL/WT/020/200924
Sample ID No : 200924089
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Pandiyambakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	78.36	IS 3025 Part 24 Sec 1: 2023(Turbidity Method)	200	600
26	Total alkalinity as CaCO3	mg/l	280.0	IS 3025 (Part 23): 1986	500	2000
27	Total dissolved solids	mg/l	260.0	IS 3025 (Part 16): 1984	NA	NA
28	Total Suspended Solids	mg/l	BLQ(LOQ 2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO4	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	200	600
31	Total hardness as CaCO3	mg/l	270.0	IS 3025 (Part 21): 2009	1	5
32	Turbidity, NTU	NTU	BLQ(LOQ 0.1)	IS 3025 (Part 10): 1984	0.01	No relaxation
33	Arsenic	mg/l	BLQ (LOQ 0.005)	USEPA 200.8 : 1994	0.7	No relaxation
34	Barium	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.003	No relaxation
35	Cadmium	mg/l	BLQ (LOQ 0.001)	USEPA 200.8 : 1994	0.05	No relaxation
36	Chromium	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.05	1.5
37	Copper	mg/l	BLQ (LOQ 0.01)	USEPA 200.8 : 1994	0.01	No relaxation

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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(Chemical & Biological Testing)
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TEST REPORT

ULR : TC123102400000451101F
Report No. : HECSL/WT/020/200924
Sample ID No : 200924089
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Ground Water
Sample Mark : Pandiyambakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

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

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

End of Report

D.Annaya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

		Report No	: HECSL/WT/020/200924/N
Name of the Client	: M/S. SIPCOT	Sample ID No	: 200924089
		Sampling Date	: 20/09/2024
Address of the Client	: Cheyyar Post EC		
Group	: Water	Received Date	: 20/09/2024
Sample Name	: Ground Water	Commenced Date	: 20/09/2024
Sample Mark	: Pandiyambakkam	Completed On	: 25/09/2024
Sample Reference	: NA	Report Date	: 25/09/2024
Sample Drawn By	: M/s.Hubert Enviro care Systems (P) Ltd.	Sample quantity	: 1 Litres
Sample Location	: NA		
Environmental Condition	: Temperature (°C) : 28.0 | Humidity (%) : 31.0		
Sampling Method & Plan	: IS 17614(Part-1):2021		

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr^{6+}	mg/l	BLQ(LOQ 0.01)	IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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

End of Report

D.Anuraya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400000451111F
Report No : HECSL/WT/021/200924
Sample ID No : 200924090
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Lake Near Mamandur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH3	mg/l	BLQ(LOQ 0.03)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	130.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	2.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ 0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca	mg/l	44.08	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	16.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	122.47	IS 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ 1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.1	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	738.0	IS 3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.42	APHA 23rd edition Method 4500 F -B,D: 2017	1.5
12	Iron as Fe	mg/l	0.079	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO3	mg/l	6.24	APHA 23rd edition Method 4500 NO3B: 2017	20

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC 12310

Laboratory Services Division
(Chemical & Biological Testing)
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TEST REPORT

ULR : TC123102400004511 1F
Report No. : HECSL/WT/021/200924
Sample ID No : 200924090
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Lake Near Mamandur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	8.02	IS 3025 Part 11: 2022 (Electrometric Method)	6.5
15	Total dissolved solids	mg/l	412.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	24.3	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	39.06	HECS/CAVT/SOP/002 Issue No.01,Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	7.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (milliequivalent/litre)	1.94	IS 11624: 2019	NA

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12296

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
BIS FSSAI Notified Laboratory
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TEST REPORT

ULR : TC123102400004511 1F
Report No : HECSL/WT/021/200924
Sample ID No : 200924090
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Lake Near Mamandur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	65.0	IS 3025 Part 45 : 1993	NA
27	Sulphate as SO4	mg/l	41.37	IS 3025 Part 24 Sec 1 : 2022	400
28	Total alkalinity as CaCO3	mg/l	130.0	IS 3025 Part 23 :1986	NA
29	Total Hardness as CaCO3	mg/l	120.0	IS 3025 Part 21 : 2009	300
30	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1 : 2022	NA
31	Total Suspended Solids	mg/l	2.0	IS 3025 Part 17 :1984	NA
32	Turbidity	NTU	1.1	IS 3025 Part 10 :1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12319

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

TEST REPORT

ULR : TC123102400045111F
Report No : HECSL/WT/021/200924
Sample ID No : 200924090
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar -Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Lake Near Mamandur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

		Report No	: HECSL/WT/021/200924/N
Name of the Client	: M/S. SIPCOT	Sample ID No	: 200924090
		Sampling Date	: 20/09/2024
Address of the Client	: Cheyyar-Post EC		
Group	: Water	Received Date	: 20/09/2024
Sample Name	: Surface Water	Commenced Date	: 20/09/2024
Sample Mark	: Lake Near Mamandur	Completed On	: 25/09/2024
Sample Reference	: NA	Report Date	: 25/09/2024
Sample Drawn By	: M/s.Hubert Enviro care Systems (P) Ltd.	Sample quantity	: 1 Litres
Sample Location	: NA		
Environmental Condition	: Temperature (°C) : 28.0 | Humidity (%) : 31.0		
Sampling Method & Plan	: IS 17614(Part-1):2021		

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

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

TEST REPORT

ULR : TC123102400004S112F
Report No : HECSL/WT/022/200924
Sample ID No : 200924091
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Mangal Lake
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH3	mg/l	BLQ(LOQ 0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	140.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	3.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ 0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca	mg/l	36.07	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	20.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	121.37	IS 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.6	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	723.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.38	APHA 23rd edition Method 4500 F D.D: 2017	1.5
12	Iron as Fe	mg/l	0.081	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO3	mg/l	6.98	APHA 23rd edition Method 4500 NO3B: 2017	20

D.Anusuya
Lab Manager
Authorized Signatory

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

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12318

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

TEST REPORT

ULR : TC123102400000451121F
Report No : HECSL/WT/022/200924
Sample ID No : 200924091
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Mangal Lake
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	7.24	IS 3025 Part 11: 2022 (Electrometric Method)	6.5
15	Total dissolved solids	mg/l	405.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	19.44	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	45.07	HECSG/WT/SOP/002 Issue No:01,Issue date 18.12. 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ 0.001)	IS 3025 Part 43/Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	0.11	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	7.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ):1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (milliMole/litre)	2.26	IS 11624: 2019	NA

D.Anuraya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
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TEST REPORT

ULR : TC123192400000045112F
Report No : HECSL/WT/822/200924
Sample ID No : 200924091
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Mangal Lake
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	68.6	IS 3025 Part 45: 1983	NA
27	Sulphate as SO4	mg/l	31.54	IS 3025 Part 24 Sec 1: 2022	400
28	Total Alkalinity as CaCO3	mg/l	140.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO3	mg/l	170.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	0.033	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	0.3	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

ULR : TC123102400004511 2F
Report No : HECSL/WT/022/200924
Sample ID No : 200924091
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Mangal Lake
Sample Reference : NA
Sample Drawn By : M/S.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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BIS, FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Report No. : HECSL/WT/022/200924/N
Name of the Client : M/S. SIPCOT
Sample ID No : 200924091
Sampling Date : 20/09/2024
Address of the Client : Cheyyar-Post EC

Group : Water
Sample Name : Surface Water
Sample Mark : Mungal Lake
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 31.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : 1 Litres

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-12310

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

TEST REPORT

ULR : TC123102400004502OF
Report No : HECS/AP/035/200924
Sample ID No : 200924081
Sampling Date : 20/09/2024

Name of the Client : M/S. SIPCOT

Address of the Client : Cheyyar-Post EC

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

Received Date : 20/09/2024
Commenced Date : 20/09/2024
Completed On : 25/09/2024
Report Date : 25/09/2024
Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	71.5	64.1
2	Mesallur	72.8	62.8
3	Kunnavakkam	68.7	58.4
4	Pandiyanthakkam	65.2	54.7
5	Muthur	68.4	51.8

Noise Standards - CPCB:

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

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

2. Night Time shall mean from 10.00 pm to 6.00 am.

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory

KUNNAVAKKAM LAKE AND POND


4 Nov 2024 16:44:27
12°42'31.497"N 79°38'14.401"E
Cholavaram
Tamil Nadu


4 Nov 2024 16:43:59
12°42'31.164"N 79°38'15.51"E
Cholavaram
Tamil Nadu

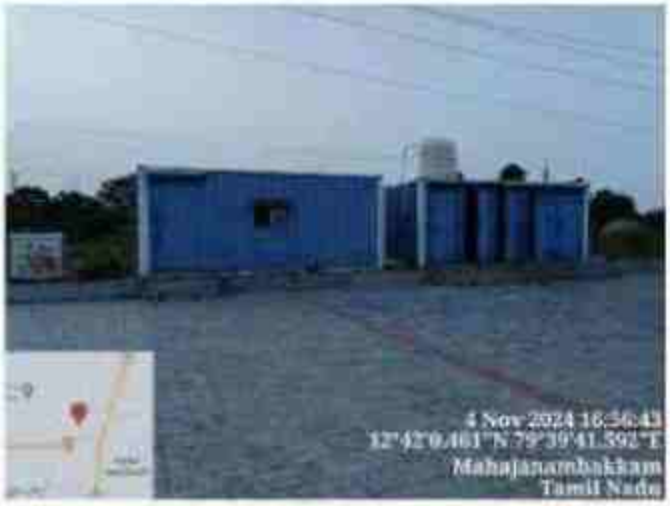

4 Nov 2024 16:43:56
12°42'31.172"N 79°38'15.516"E
Cholavaram
Tamil Nadu


4 Nov 2024 16:42:41
12°42'28.128"N 79°38'22.955"E
Kunnavakkam
Tamil Nadu

Annexure - 15

INDIVIDUAL INDUSTRIES PARKING

SIPCOT TRUCK PARKING



SIPCOT Project Office parking area

Annexure - 16

FLY ASH MIXED HOLLOW BLOCK

PROCEEDINGS OF THE CHAIRMAN AND MANAGING DIRECTOR, SIPCOT, CHENNAI-8

Annexure - 17

PRESENT: THIRU N. SUNDARADEVAN, I.A.S.,
CHAIRMAN AND MANAGING DIRECTOR

Proc.No.CW/WS/CHY/2006, dated 11.12.2006

Sub: SIPCOT Industrial Park, Cheyyar – Providing 1 MGD water supply scheme from River Cheyyar – Administrative approval accorded – Orders issued – Regarding.

Ref: 1. Engineering Director, TWAD Board Lr.No.F.SIPCOT-Cheyyar /AE6/P&D/2006, dt. 7.10.2006.

2. SIPCOT EMC Meeting dt. 12.10.2006.

.....

1. The Engineering Director, TWAD Board has furnished the Detailed Project Report for providing 1 MGD water supply scheme from River Cheyyar for SIPCOT Industrial Complex, Cheyyar by tapping water through infiltration wells at a cost of Rs.840.00 lakhs .

2. The Expenditure Monitoring Committee of SIPCOT in its meeting held on 12.10.2006 has recommended to entrust the above said work to TWAD Board after deducting the provisions made for Generator, Compound wall, Chlorination etc. and reducing 100% standby to 25% at a cost of Rs.780.00 lakhs vide Annexure "A".

3. As per SIPCOT Circular No.2/2005, dt. 30.3.2005, the Chairman and Managing Director, SIPCOT is delegated with full powers for according administrative approval for all the civil and electrical works under the head of Capital works.

4. Accordingly, administrative approval is hereby accorded for Providing 1 MGD water supply scheme from River Cheyyar for SIPCOT Industrial park, Cheyyar by tapping water through infiltration wells at a cost of Rs.780.00 lakhs (Rupees Seven hundred and eighty lakhs only).

... will be executed by TWAD Board as "Deposit Work" and TWAD Board will accord technical sanction for this estimate.

6. On completion, TWAD Board will hand over the scheme to SIPCOT Industrial Park, Cheyyar for maintenance.

Encl: Annexure "A"

Sd/-
N. SUNDARADEVAN
CHAIRMAN & MANAGING DIRECTOR
SIPCOT, CHENNAI - 8

To

The Managing Director
TWAD Board
Chepauk
Chennai-6

Copy to:

The Engineering Director
TWAD Board
Chepauk
Chennai – 5.

The Chief Engineer
TWAD Board
Vellore

The Superintending Engineer
TWAD Board
V.T. Circle
Vellore

GM(P&SPL.)I/c. SIPCOT

AGM(F), SIPCOT

The Project Officer i/c.,
SIPCOT Industrial Complex,
RANIPET.

12/12/06

For CHAIRMAN & MANAGING DIRECTOR
SIPCOT, CHENNAI - 8

Annexure - 17a

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD

From
Er K.Nithyanandan, M.E.,
Executive Engineer, TWAD Board,
Project Formulation Division
No.3, 6th Street, Gopalapuram
Vellore-632006.
E-mail : eepfdnvlr6@gmail.com

To
Executive Engineer,
PWD, WRO,
Middle Pennaiyar Basin
Division,
Tiruvannamalai.

Lr.No.192/ F. SIPCOT Cheyyar/DO/PF Dn/Vlr/2024/Dt. 19.02.2024.

Sir,

Sub: TWAD Board, - Project Formulation Division, Vellore – Providing 1.62 MLD (Including 10% Transmission loss) of Water supply to SIPCOT, Cheyyar in Tiruvannamalai District - Permission for drawal of 1.62 MLD water from Cheyyar river - Requested- Regarding.

Ref:
1. SIPCOT Cheyyar, Tiruvannamalai Dt, EoDB / TWAD, Application No:TWAD20200304, Dated 10.08.2020.
2. SIPCOT Cheyyar, Tiruvannamalai Dt.26.09.2020.
3. SE/ TWAD/ Vlr-Tvm Circle/ Vellore Lr.No.1032/F.SIPCOT, Phase-II (Cheyyar)/T1 /VTC/ VLR/2023/dt: 25.08.2023.

========

I wish to inform that, SIPCOT has an Industrial Complex at Cheyyar and is located at Mangal koot road which is 15km from Cheyyar and 14 Km from Kancheepuram and 27 Km from Vandavasi. SIPCOT, Cheyyar Industrial park consists of Phase-I (619.09 Acres) and Phase-II (320.10 Acres). At present 4.50 MLD WSS (Phase I) is functioning with Infiltration well (7 Nos) source in Cheyyar river at Akkur village.

SIPCOT has stated that considering further developments in SIPCOT, Cheyyar Phase-I & II, has requested for an additional quantity of 4.50 MLD of water and registered their request through the online web portal of TWAD Board on 10.08.2020 vide reference 1st cited.

SIPCOT has remitted an amount of Rs. 11.00 Lakhs to TWAD Board towards the upfront amount for taking up investigation vide reference 2nd cited.

The Deputy Hydrogeologist, TWAD Board, Vellore – Tiruvannamalai circle – Vellore has conducted detailed hydrogeological investigation and vide reference 3rd cited reported that, out of 4.5MLD as requested by SIPCOT Cheyyar 1.62 MLD (including 10% Transmission loss) of water can be tapped by creating 3 Nos of Infiltration wells in River Cheyyar at Akkur.

A detailed project report for providing 1.62 MLD (Including 10% Transmission loss) water supply to SIPCOT Cheyyar has been prepared and the State Level Technical Committee (SLTC) of TWAD Board in its meeting held on 23.01.2024 has cleared the proposal.

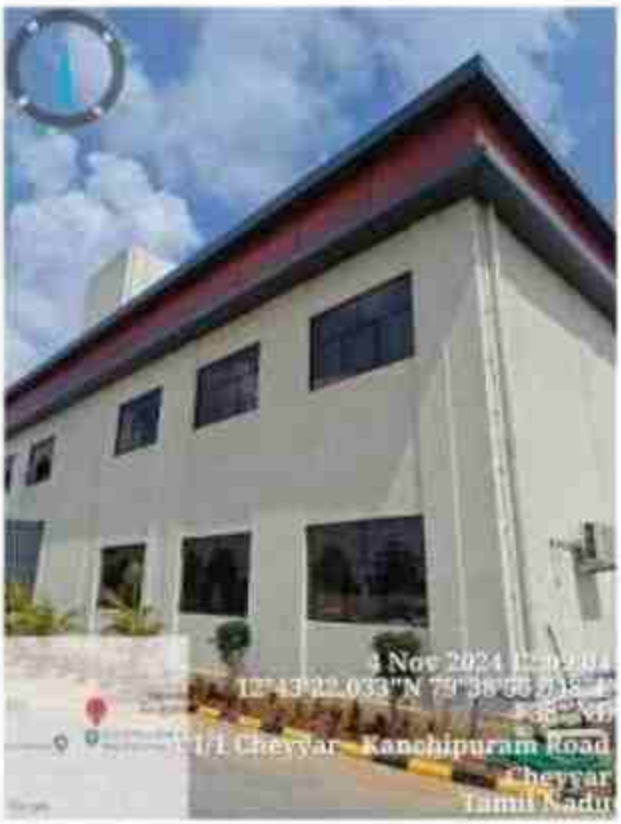
Hence, I request that necessary permission may please be obtained from the competent authority for drawal of 1.62 MLD of water from Cheyyar river so as to take up the scheme for implementation.

Further, I am to state that, the Royalty Charges may be paid by the TWAD Board which may be collected from SIPCOT authorities.

Executive Engineer, TWAD Board,
Project Formulation Division, Vellore-6.

Copy submitted to the District Collector, Tiruvannamalai for favour of information.
Copy submitted to the Chief Engineer, TWAD Board, Vellore for favour of information.
Copy submitted to the Superintending Engineer, TWAD Board, Vellore – Tiruvannamalai circle, Vellore for favour of information.
Copy submitted to the Superintending Engineer, PWD,WRO, Pennaiyar Basin Circle, Thiruvannamalai for favour of information.
Copy to the Assistant Executive Engineer, RWS Division, Tiruvannamalai for follow up action.

High quality low E value glass used by Industries



THERMAL INSULATION MATERIAL PROVIDED BY INDIVIDUAL INDUSTRIES

Annexure - 20

FIRE FIGHTING EQUIPMENTS

Grasim Emergency drill

Public Hearing Compliance Statement – SIPCOT Cheyyar Industrial Park, Thiruvanamalai District

S. No	Observation in Public Hearing	Compliance	Present Status
1	**Page-2** **Thiru. Mugilan, Coordinator, Tamilnadu Environmental ProtectionMovement, Vadapalani, Chennai.** ➢ He raised objection for the contention of DRO / Chairman (I/C) because without knowing the details of the project chairman cannot comment about the project. ➢ He also stated that the proposed industrial park will pollute the surrounding area as happened in other SIPCOT industrial parks such as Perundurai. He noted that agriculture lands are being acquired for the park and the lands for the proposed park are surrounded by lakes and ponds. He stated that only condensed version of Environment Impact Assessment (EIA) report was made available in Tamil and that Tamil version of entire report should have been made available in the public domain. He also noted that enough publicity was not given. He further noted that the report did not mention the heritage site located in the mamandur village. He noted that palar river is located within 5 kms of the project area and the project will affect the river which is already dry. He further stated that only agro based industries should be encouraged and Multinational Companies should not be encouraged.	The Chairman clarified that he only talked on introducing the Project and the proponent and their EIA Consultant will explain the project in detail. It was clarified by the Proponent that the nature of proposed classified industries are not water intensive as in the case of Perundurai which is largely textile processing. Executive Summary of the EIA was already circulated in Tamil as per EIANotification, 2006. The heritage site is well away from the project location and assured that it will be addressed in the final EIA report. The proponent of the IP, SIPCOT, took a decision to address the concern of the water availability and hence, industrial classifications of Synthetic Organic Chemicals – 5(f) and Isolated Storage & Handling of Hazardous Chemicals 6(b) were removed and now seeking EC only to accommodate Metallurgical	- - - MoEF has issued Environmental Clearance on 30.09.2016 for SIPCOT Industrial Park Cheyyar and it will house industrial units namely, metallurgical industries [item 3(a)] and induction / Arc

S. No	Observation in Public Hearing	Compliance	Present Status
		Industries -3(a) Induction/Arc Furnaces/Cupola Furnaces 5TPH or more – 5 (k)	Furnace / Cupola Furnaces of TPH or more [item 5(k)] However, if any other EC category industry is approached then the individual unit shall apply and seek Environmental Clearance under the EIA. In same line, M/s. Global Pharma Healthcare Pvt Ltd and M/s. Grasim Industries Limited were allocated plot in the industrial park for their Manufacturing facility, with a condition to obtain all necessary clearances/approvals before construction/ operation of the project. Since the unit falls under 5(f) and 5(h) category of EIA notification, they have applied and obtained EC from TNSEIAA after conducting Public Hearing.
2	**Page-3** **Mr. Tamil Iniyan, Ex-President, Mathur Village.** ➢ He stated that the villages surrounding the project area is already facing water shortage and the drawl of additional water from Cheyyar River for the park will affect the drinking water supply.	SIPCOT took a decision to address the concern of the water availability and hence, industrial classifications of Synthetic Organic Chemicals - 5(f) and Isolated Storage & Handling of Hazardous Chemicals-6(b) were removed.	MoEF has issued Environmental Clearance on 30.09.2016 for SIPCOT Industrial Park, Cheyyar and it will house industrial units

S. No	Observation in Public Hearing	Compliance	Present Status
	➢ He also noted that the EIA report did not cover the impact of the existing industries. He further stated that foundry / steel melting industries will affect the air environment and the proposed park will affect the grazing of cattle which is important livelihood of the local population. He also noted that the details of projects to be established in the park are not covered in the EIA report. ➢ He stated that the environment Impact Assessment was done during Feb, Mar & Apr, and based on that report was submitted. There is lot of discrepancies in the report and there is no enough publicity given for the project, and there is lot differences were found in the Tamil & English Executive summaries. Executive summary Report is not given to local 3 bodies & public. It seems that the government is only supporting the foreign investors /entrepreneurs and not supporting the agriculturists. ➢ Also, the EIA report did not mentioned historical places, Archeological important places, GO attracting water bodies such Mamandur Lake & Dusi Lake. Further, it is stated that for establishment of Red categories industry, GO related issues are not taken in to account and there is no details about the Agriculture land acquisition.	Industry classification specific impacts and Management Systems, in generic, were presented in EIA report. Individual Industries will be mandated to implement activity-specific controlmechanisms while they will be issued CONSENT by State Pollution Control Board. Executive Summary of the EIA was already circulated in Tamil and as well inEnglish as per EIA Notification,2006. The heritage site is well away from the project location and it is addressed in the final EIA report. This will be implemented by SIPCOT by strategically allocating the lands in the closer vicinity to Mamandur lake only to Industries which are not attracted under EIA Notification. As a policy commitment, SIPCOT will allot such land mass only to Engineering Fabrication/Manufacturing Industries. Accordingly, the conceptual plan for allocation of classified industries	namely, metallurgical industries [item 3(a)] and induction / Arc Furnace / Cupola Furnaces of TPH or more [item 5(k)]. However, if any other EC category industry is approached then the individual unit shall apply and seek Environmental Clearance under the EIA. In same line, M/s. Global Pharma Healthcare Pvt Ltd and M/s. Grasim Industries Limited were allocated plot in the industrial park for their Manufacturing facility, with a condition to obtain all necessary clearances/approvals before construction/ operation of the project. Since the unit falls under 5(f) and 5(h) category of EIA notification, they have applied and obtained EC from TNSEIAA after conducting Public Hearing.

S. No	Observation in Public Hearing	Compliance	Present Status
		was modified by SIPCOT and it is presented as Figure	
	➢ He noted that the workers in the Special Economic Zone (SEZ) located at the existing SIPCOT Park are exploited and there is no enough water for the existing SIPCOT, in this juncture how the SIPCOT will go for expansion activities without the enough water?	SIPCOT took a decision to address the concern of the water availability and hence, industrial classifications of Synthetic Organic Chemicals -5(f) and Isolated Storage & Handling of Hazardous Chemicals-6(b) were removed.	
	➢ He also noted that Cheyyar River is a seasonal river, Instead of constructing the Dam across the river by the government, how they can propose water consuming projects like SIPCOT.	Individual Industries will be mandated to implement activity-specific control mechanisms while they will be issued CONSENT by State Pollution Control Board.	
		It was assured as per the guidelines of all Environmental Acts, TNPCB will monitor the SIPCOT activity and ensure protection to peoples in the project location.	Being Complied.
	➢ He also noted that the EIA does not contain the nature of industries coming up in the SIPCOT Expansion project and also there is no mention about the process, production details, water consumption details and emission details in the EIA. There is no mention about the existing industries located the SIPCOT, and damaged caused to the environment.	SIPCOT assured the Environmental Quality Management Systems to prevent Pollution from the proposed IP.	MoEF has issued Environmental Clearance on

S. No	Observation in Public Hearing	Compliance	Present Status
	➢ He also stated that the industrialists are considering the employees as bonded labors in the existing units located in the SIPCOT, and requested the DEE, TNPCB, Tiruvannamalai to safe guard the interest of agriculturalist. And also stated that shall not conduct the public hearing without redressal of their grievances. ➢ Finally, he requested to exempt the villages such as Chellaperumpulimedu, perumpulimedu, Alinjalpattu and Chozhavaram Villages from the project proposals, and hence he requested to ban the upcoming of the project.		30.09.2016 for SIPCOT Industrial Park, Cheyyar and it will house industrial units namely, metallurgical industries [item 3(a)] and induction / Arc Furnace / Cupola Furnaces of TPH or more [item 5(k)] However, if any other EC category industry is approached then the individual unit shall apply and seek Environmental Clearance under the EIA. In same line, M/s. Global Pharma Healthcare Pvt Ltd and M/s. Grasim Industries Limited were allocated plot in the industrial park for their Manufacturing facility, with a condition to obtain all necessary clearances/approvals before construction/ operation of the project. Since the unit falls under 5(f) and 5(h) category of EIA notification, they have applied and obtained EC from TNSEIAA after conducting Public Hearing.
3	**Page 5** **Mr.Tamilmurugan S/o Mr.Tamilmani, Cheyyar** stated that diversion of agricultural land for industries will affect	The land allocation for the promotion of the proposed IP was done by Government of	-

S. No	Observation in Public Hearing	Compliance	Present Status
	agricultural production. He noted that polluting industries should not be started. He wanted SIPCOT to return the lands acquired to the original owners.	Tamilnadu, considering all these aspects.	
4	**Page-5** **Mr.Radhakrishnan, Exemployee, Cheyyar SEZ**, stated that no public hearing was done for establishment of Cheyyar SEZ which is employing around 23000 people. He noted that the foot wear manufacturing industry in Cheyyar SEZ is not following the labour laws and the employees are illtreated. He stated that only women are preferred for employment in the foot wear manufacturing industry as they are submissive and do not ask questions. He noted that the industry is exploiting and illtreating the workers. He stated that agriculture is not given water as given for industries. He further stated that the footwear industry is giving stiff production targets against the labour laws, and hence exploiting the labours.	SIPCOT assured that the proposed member industries will be mandated to have all their activities in compliance to Rules and Acts.	-
5	**Page-5** **Mr.Elangovan, Panchayat President, Cholavaram**, stated that the lands acquired for the park were owned by small and marginal farmers. He noted that 1500 cows and 5000 sheep will be deprived of grazing land due to the diversion of land for the industries. The lands they proposed to utilize for the industrial park was acquired from farmers and they were farming lands before acquisition contrary to claims of the lands being barren. He wanted the proposed industrial park project to be dropped.	The land allocation for the promotion of the proposed IP was done by Government of Tamilnadu, considering all these aspects.	-
6	**Page-6** **Mr.Jeganathan, President, Fishermen Welfare Association, Alinjalpattu**, stated that setting up of industrial park will affect fishing since catchment area of fishing lakes and ponds lie in the proposed park. He also noted about the lack of transport facility in the area. Since	The land allocation for the promotion of the proposed IP was done by Government of Tamilnadu, considering all these aspects.	- MoEF has issued

S. No	Observation in Public Hearing	Compliance	Present Status
	the industrial SIPCOT Park is in the upstream incase of discharge of effluent may affect water source in the downstream. Hence, he wanted the proposed industrial park project to be dropped.	SIPCOT took a decision to address the concern of the water availability and hence, industrial classifications of Synthetic Organic Chemicals -5(f) and Isolated Storage & Handling of Hazardous Chemicals-6(b) were removed.	Environmental Clearance on 30.09.2016 for SIPCOT Industrial Park, Cheyyar and it will house industrial units namely, metallurgical industries [item 3(a)] and induction / Arc Furnace / Cupola Furnaces of TPH or more [item 5(k)] However, if any other EC category industry is approached then the individual unit shall apply and seek Environmental Clearance under the EIA. In same line, M/s. Global Pharma Healthcare Pvt Ltd and M/s. Grasim Industries Limited were allocated plot in the industrial park for their Manufacturing facility, with a condition to obtain all necessary clearances/approvals before construction/ operation of the project. Since the unit falls under 5(f) and 5(h) category of EIA notification, they have applied and obtained EC from TNSEIAA after conducting Public Hearing.
7	**Page-6** **Mr.Saravanan, State Treasurer, People Union for Civil**		

S. No	Observation in Public Hearing	Compliance	Present Status
	Liberty, Cheyyarstated that wide publicity for the Public hearing was not given as mandated in MOEF guidelines. He noted that the Tamil version of entire EIA report should have been given to the public. In absence of Tamil version of the report, it is not possible to understand the impact of the project. He noted that impact of existing industries is not discussed in the EIA study report. Hence, he wanted the proposed industrial park project to be dropped.	Executive Summary of the EIA was already circulated in Tamil and as well inEnglish as per EIA Notification,2006. Advertisements were made by Tamilnadu Pollution Control Board in leading News Papers, both in Tamil and English well ahead of this Public Consultation a month ago, as per EIA Notification,2006.	-
8	**Page-6** **Mr.K.R.Ravi, Tamil People Cultural Movement, Kancheepuram** noted that the District Collector should have attended the public hearing instead of District Revenue Officer. He noted that SEZs in Sriperumbudur area is not doing well and several units such as Nokia are closed. He stated that Government is encouraging only multinational companies and industries not allowed in other states are allowed in Tamilnadu.	SIPCOT assured to enable the member industries in the proposed IP to function in compliance to all Rules & Regulations.	SIPCOT mandates the individual industries to have Zero Liquid Discharge System and to have individual sewage treatment system. Individual industries will be mandated to obtain Consent to Establish and Consent to Operate from Tamil Nadu Pollution Control Board.
9	**Page-6** **Mr.Bhaskaran, Cheyyar** stated that the existing foot wear unit is exploiting and ill treating the workers and no benefit has accrued to the local population. Hence, he wanted the proposed industrial park project to be dropped.	SIPCOT assured to mandate all member industries in the proposed IP to function in compliance to all Guidelines.	-
10	**Page-6** **Mr.Kuppan, Deputy Secretary, Dalit Panthers, Cheyyar** stated MNCs are exploiting the workers. He noted that poor people depend on agriculture and animal husbandry for their livelihood and acquisition of their land will affect their security. He noted that Panchami lands lands given to the dalits) should not be acquired and such lands should be	The land allocation for the promotion of the proposed IP was done by Government of Tamilnadu, considering all these aspects. SIPCOT assured to enable the member industries in the proposed IP to function in	-

S. No	Observation in Public Hearing	Compliance	Present Status
	recovered.	compliance to all Rules & Regulations.	
11	Page-7 **Mr.Ulaganathan, S/o. Chinnasamy, Secretary, Tamilnadu Farmers Association, Mathur** stated that Tiruvannamalai is primarily an agrarian district. He noted that the industries are bringing labour from other states and local population is not benefitted. He wanted Government to encourage agro based industries such as milk processing instead of polluting industries. Hence, he requested that the District Administration to consider his request.	SIPCOT proposal for the proposed IP is need based and to fulfil the policies ofGovernment to ensure industrial development.	-
12	Page-7 **Mr.Devaraj, Tamilnadu Farmers Movement, Mathur** stated that small andmarginal farmers depend on agriculture for their livelihood and therefore their lands should not be acquired. He noted that local people do not want industries at the cost of agriculture.	The land allocation SIPCOT for the promotion of the proposed IP was doneby Government of Tamilnadu, considering all these aspects.	Government of Tamil Nadu has issued Administrative sanction for acquisition of 931.41 Ha of land vide G.O. Ms. No. 281 dated 05.12.2007.
13	Page-7 **Mr.Ananthazhwar, Kunnavakkam** stated that climate change is happening due to industrial emissions. He wanted the Government to allot funds for	Central and State Governments are undertaking several initiatives towards mitigation and adaptation for the impacts of Climate change.	-
14	Page-7 **Mr.Kanniappan, Cholavaram**noted that Panchami lands (lands given to Dalits) should not be acquired since the livelihoods depend on the land. He noted that several representations given by them to various Authorities against the acquisition of Panchami lands did not yield desired results.	The land allocation SIPCOT for the promotion of the proposed IP was doneby Government of Tamilnadu, considering all these aspects.	Government of Tamil Nadu has issued Administrative sanction for acquisition of 931.41 Ha of land vide G.O. Ms. No. 281 dated 05.12.2007.
15	Page-7 **Mr.Meganathan, Kancheepuram**stated that the details of the companies to be located in the park are not given. He noted that the industries are giving only low end jobs such as	SIPCOT assured to enable the member industries in the proposed IP to function in compliance to all Rules & Regulations.	Individual industries will be mandated to obtain Consent to Establish and Consent to Operate from Tamil Nadu

S. No	Observation in Public Hearing	Compliance	Present Status
	security guards for the local population. He further noted that agriculture in 2300 acres can give more employment for the local people than industries. He also expressed apprehension about the possible water shortage due to setting up of industries. He also stated that industries denied permission in other states is permitted in Tamilnadu.		Pollution Control Board. Further, individual industries will be to adopt Zero Liquid Discharge concept and reuse the treated water.
16	**Page-7** **Mr.Vetritamilan, Kancheepuram** stated that industries are destroying natural wealth and Govt is not attending peoples' needs by means of giving fertile lands to foreign investors. He also stated that industries are following Anti-people approach.	SIPCOT assured to enable the member industries in the proposed IP to function in compliance to all Rules & Regulations.	-
17	**Page-8** **Mr. Abdul Bazeer, Kancheepuram** stated that the TTRO water supply from Kancheepuram Municipality as stated by the Consultant will bring sewage to the area and pollute the environment.	It was Clarified that sewage of Kancheepuram will be treated in state-of-the-art technology based Treatment Plant. The treated effluent from treatment plant will be processed and re-used in the membrane based tertiary treatment plant, as known as Tertiary Treated Reverse Osmosis (TTRO), to reclaim water.	SIPCOT has obtained approval for 1 MGD water from TWAD (River Cheyyar). Further obtained approval of 1.62 MLD for both Cheyyar Phase I and II.
18	**Page-8** **Mr.Ramesh, Kancheepuram** stated that Govt officials are only supporting MNCs, not farmers. He noted that the lands inherited for generations are acquired for industries and agriculture lands should not be acquired.	The land allocation SIPCOT for the promotion of the proposed IP was done by Government of Tamilnadu, considering all these aspects.	Government of Tamil Nadu has issued Administrative sanction for acquisition of 931.41 Ha of land vide G.O. Ms. No. 281 dated 05.12.2007.
19	**Page-8** **Mr.Kannan, Cheyyar** noted that the area is experiencing drop in rainfall due to industrial emissions.	It was clarified that from the existing industries, the level of stack emissions is insignificant.	-
20	**Page-8** **Mr.Selvamani, Ukkul Village** noted that all the people in		

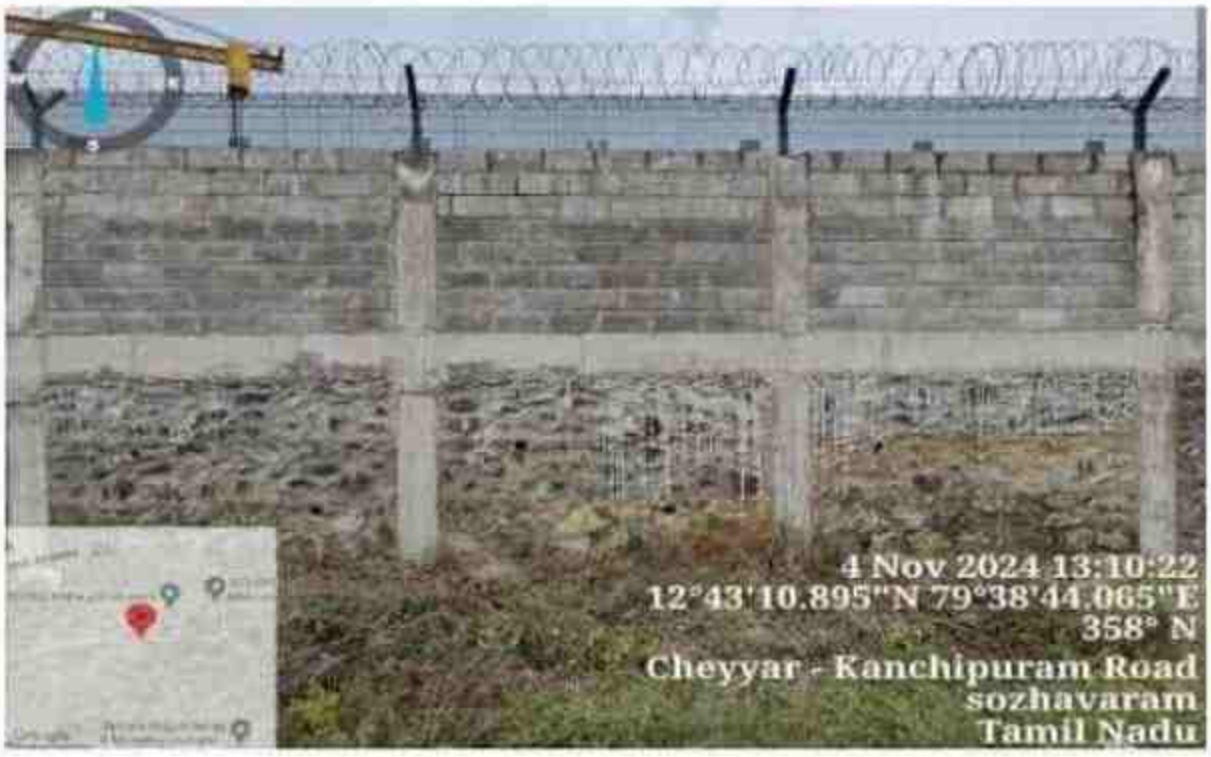
S. No	Observation in Public Hearing	Compliance	Present Status
	the area are not involved in the public hearing. He stated that perennial rivers have become dry due to sand mining and Cheyyar River is affected by sand mining. He expressed apprehension about shortage of water for agriculture due to drawl of water for industries.		-
	1. What are the Terms of Reference (ToR) for the EIA study?	Dr.Nehrukumar clarified that the ToR prescribed by MoEF for Industrial Estates were followed. Further, additional ToR stipulated by Expert Appraisal Committee (EAC) of MoEF were also studied and presented in EIA report.	
	2. How 1 MGD water requirement estimated for the park would be met?	It was clarified that besides augmenting the existing water supply from Cheyyar River, TTRO water from Kancheepuram Municipality would be made available. Tamilnadu Water Supply & Drainage Board (TWAD), which is mandated to supply water for the park, is working on the TTRO water supplyproposal.	1 MGD water requirement is being met through TWAD Board.
	3. Why manufacturing process of projects to be located in the Park notcovered?	It was clarified that only Mahindra & Mahindra has signed MoU to set up an Automobile project in the Park. That is also in the initial stage. It was informed that several technology/process optsons are available for the manufacture of each product. It will be ensured that the projects with state of art technologies which involve	-

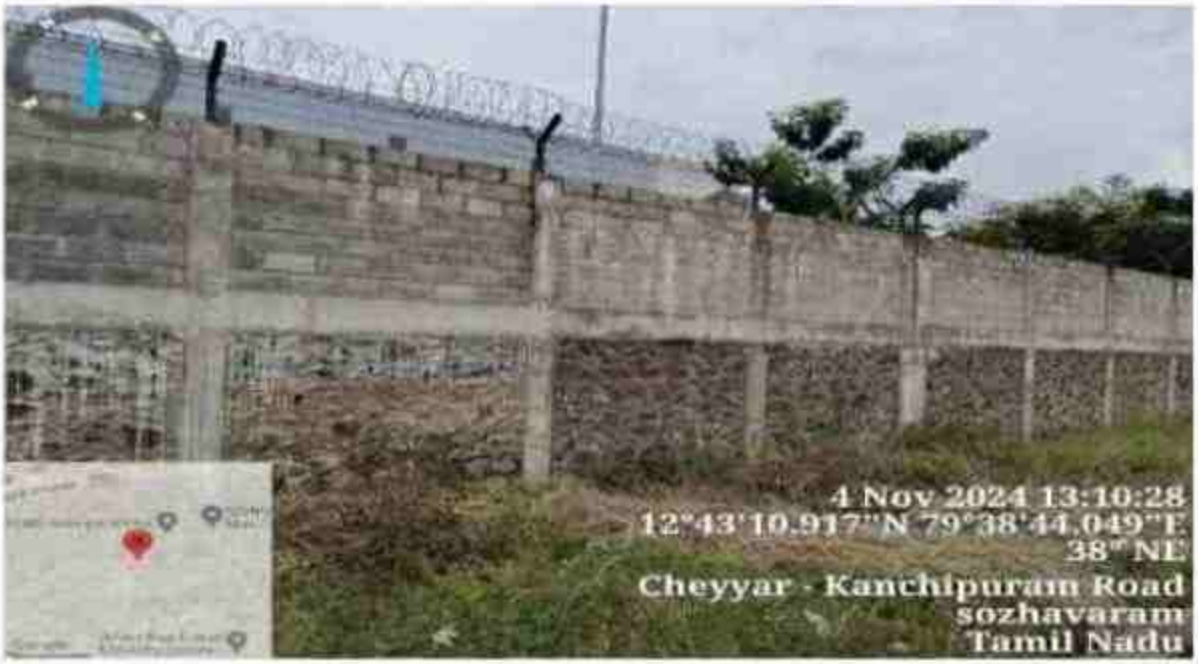
S. No	Observation in Public Hearing	Compliance	Present Status
		less natural resources and less emissions/residues would be considered for land allotment in the park. It was also noted that the details of individual industries will be submitted to TNPCB in the Form I for seeking Consent for Establishment for the park.	
	4. Whether socioeconomic impact of the Park was studied?	Dr.Nehrukumar clarified that socioeconomic impact was studied and presented in the EIA study report.	-
	5. Whether public hearing will be conducted for individual industries?	It was clarified that individual industries has to conduct public hearing separately if they do not fall within the scope of ToR issued by EAC for thepark and EIA study report.	Yes, if the industry is not covered in EC of SIPCOT Cheyyar, individual industries shall conduct public hearing separately, if insisted by the authority. Accordingly, Global pharma and Grasim industries obtained EC separately by conducting PH individually Which are located within SIPCOT Cheyyar Industrial Park.

DG STACK

Annexure - 22

WEEP HOLES PROVIDED BY INDUSTRIES





Annexure - 24

Solar and LED Street Lights by Industries

Roof Top Solar - schwing stetter

SIPCOT - LED Street light

Annexure - 25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2 Compliance Report - Pillaipakkam for June 2024
3 Compliance Report - Vallam Vadagal II for June 2024
4 Compliance Report - Vaipur Mottur for June 2024
5 Compliance Report - Aerospace Park for June 2024
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7 Compliance Report - Manapakkl for June 2024
8 Compliance Report - Thirukkalam for June 2024
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15 Compliance Report - Theni for June 2024
16 Compliance Report - A Sathanur for June 2024

தினத்தந்தி நாள் : 14-10-2016

சிப்காட் தொழிற் பூங்கா

செய்யாறு தாலுகா, திருவண்ணாமலை மாவட்டம்

CIN U74999TN1971SGC005967

சுற்றுச்சூழல் இசைவாணை

மத்திய சுற்றுச்சூழல் வனத்துறை மற்றும் பருவநிலை மாற்ற அமைச்சகம் F.No.21-181/2014-IA-III தேதி 30.09.2016 மூலம் திருவண்ணாமலை மாவட்டம் செய்யாற்றில் அமையவுள்ள தொழிற்பூங்காவிற்கு சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

இவ்விசைவாணையின் முழுவிவரங்களை சிப்காட் இணையதளமான www.sipcot.com மற்றும் மத்திய சுற்றுச்சூழல் வனத்துறை மற்றும் பருவநிலை மாற்ற அமைச்சகத்தின் இணையதளமான www.envfor.nic.in ஆகியவற்றில் பதிவிறக்கம் செய்து கொள்ளலாம். மேலும் இவ்விசைவாணையின் நகலினை இவ்வலுவலகத்தில் பெற்றுக் கொள்ளலாம்.

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

The New Indian Express dt. 14-10-2016

SIPCOT INDUSTRIAL PARK, CHEYYAR,
CHEYYAR TALUK
THIRUVANNAMALAI DISTRICT
CIN U74999TN1971SGC005967

ENVIRONMENTAL CLEARANCE

Environmental Clearance has been obtained for the proposed SIPCOT Industrial Park at Cheyyar, Thiruvannamalai District from Ministry of Environment, Forest and Climate Change, New Delhi vide their F.No.21-181/2014-IA-III dt.30.09.2016.

The contents of the Environmental Clearance can be downloaded from SIPCOT website www.sipcot.com and also in the MoEF & CC website www.envfor.nic.in. Further the copies of the Environmental Clearance could be obtained from the Head Office of SIPCOT.

MANAGING DIRECTOR
SIPCOT
19-A, Rukmani Lakshmipathy Road,
Egmore, Chennai-8

Annexure 27

State Industries Promotion Corporation of Tamil Nadu Limited

(A GOVERNMENT OF TAMILNADU UNDERTAKING)

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

Phone : 28554787 Fax : 044-28553746/42177333 CIN U74999TN1[illegible]SCO[illegible]

PROJECT OFFICE SIPCOT CHEYYAR

Ref. No. :

Date : 18/10/16

D-I/EIA/CHEYYAR/2016 Date :08.10.2016

1.The Block Development Officer,
Vembakkam. (Cheyyar)

2.The Block Development Officer,
Cheyyar

Sir,

Sub:SIPCOT – Environmental Clearance for SIPCOT Industrial Complex, Cheyyar – Forwarded- Regarding.

Ref :F.No.21-181/2014 -IA-III, Government of India, Ministry of Environment, Forest and Climate Change dt.30.9.2016.

******

We wish to inform that, SIPCOT has obtained Environmental Clearance for Establishment of new Industrial Park at Cheyyar Taluk, Thiruvannamalai District from the Ministry of Environment, Forest and Climate Change, Government of India vide reference cited. We enclose a copy of the same.

Yours faithfully,
Sd/xxx
GENERAL MANAGER(II)

/ Forwarded by Order /

H. Prabhavathy
ASSISTANT GENERAL MANAGER(D-I)

Encl.: As above.

1/3

DY. B.D.O. (ADMN)
P.U., VEMBAKKAM

State Industries Promotion Corporation of Tamil Nadu Limited
(A GOVERNMENT OF TAMILNADU UNDERTAKING)
Regd. Office : 19-A, Rukmani Lakshmipathy Road, Post Box No.7223, Egmore, Chennai - 600 008.
Phone : 28554787 Fax : 044-28553746/42177333 CIN U74999TN1971SGC005967

Ref. No. :

PROJECT OFFICE
Date
12/10/16
SIPCOT CHEYYAR

D-I/EIA/CHEYYAR/2016

Date :08.10.2016

1.The Block Development Officer,
Vembakkam.

2.The Block Development Officer,
Cheyyar

Sir,

Sub:SIPCOT – Environmental Clearance for SIPCOT Industrial Complex, Cheyyar – Forwarded- Regarding.

Ref :F.No.21-181/2014 –IA-III, Government of India, Ministry of Environment, Forest and Climate Change dt.30.9.2016.

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Yours faithfully,
Sd/xxx
GENERAL MANAGER(II)

/ Forwarded / Order /

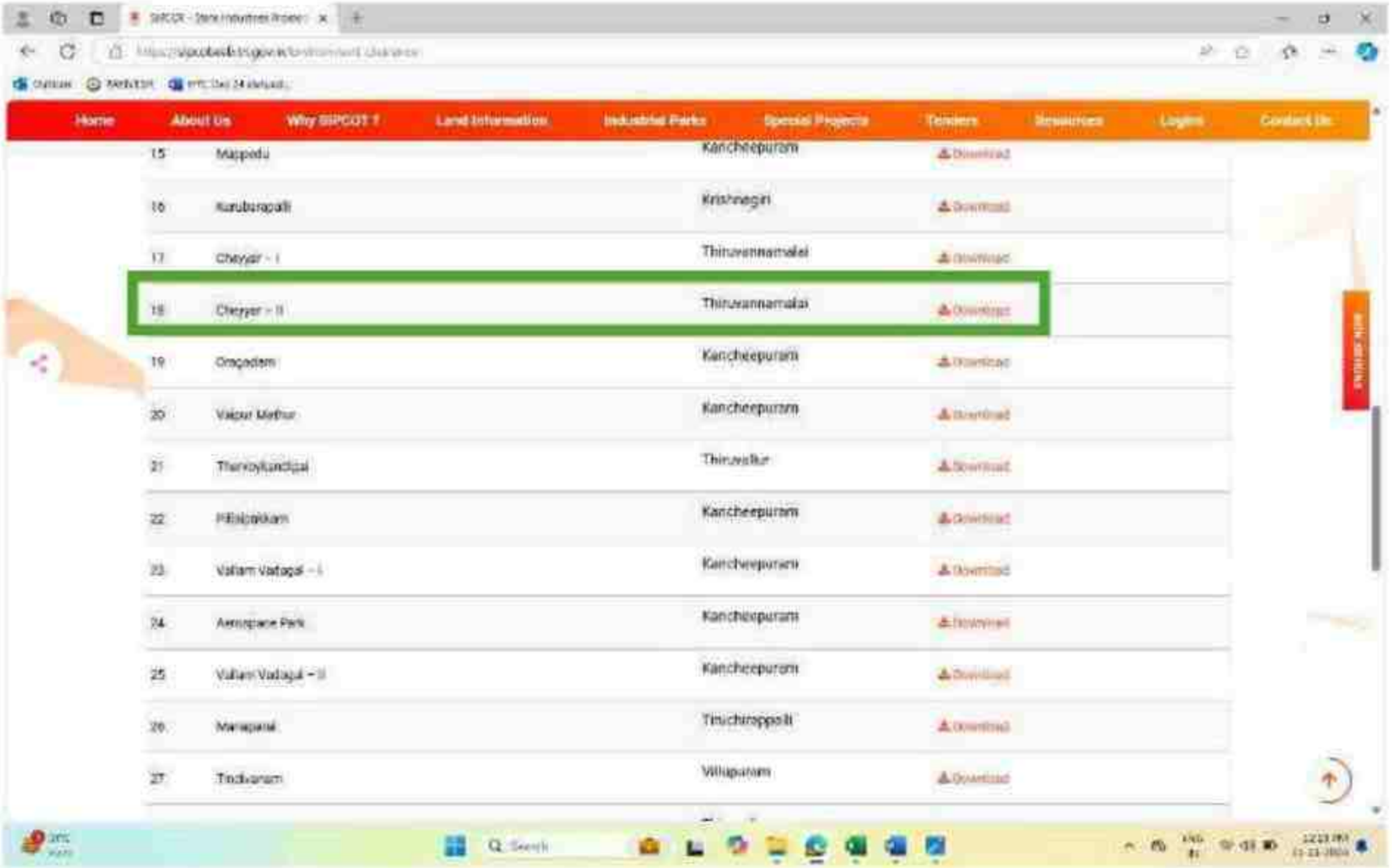
H. Prabhavathy
ASSISTANT GENERAL MANAGER(D-I)

Encl.: As above.

Received a copy
20.10.2016 (Cyn)
Chairman
19/10/16

e-mail : sipcot@md3.vsnl.net.in Website : www.sipcot.com

Annexure - 28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P-IV/EC/I/179105/2024/CH

Date: 30.09.2024

/By RPAD/

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

Sir,

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

Ref: MoEF&CC EC Letter No. F.No.21-181/2014-IA-III dt. 30.09.2016.

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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 Mangal, Kunnavakkam, mathur, Karanai, Chellaperumbulimedu, Perumbulimedu, Ukkamperrumbakkam, Shozhavaram, Alinjalpattu and Mahajanambakkam Villages in Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu for the Financial Year ending 31st March 2024.

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/

SIPCOT DESPATCHED 09 OCT 2024

ASSISTANT GENERAL MANAGER (P-IV)

Sir,
Pc wanted
o/c.
30/9/24

AIR QUALITY INDEX DISPLAY BY INDUSTRIES