

HALF YEARLY ENVIRONMENTAL COMPLIANCE REPORT

For the Period of April 2024 to September 2024

For

**“Development of Industrial Park at Thervoy kandigai,
Thiruvallur District, Tamil Nadu”**

EC OBTAINED Vide Letter No 21-41/2009-IA.III. Dated: 09.08.2010

Submitted by



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

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

Prepared by



HUBERT ENVIRO CARE SYSTEMS (P) LTD CHENNAI

(ENVIRONMENTAL CONSULTANT)

November 2024

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1. PROJECT DETAILS

Name of the Project	SIPCOT Thervoy Kandigai Industrial Park
Name of the Proponent	M/S. State Industries Promotion Corporation of Tamil Nadu Ltd.
Location	Thervoy Kandigai, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu.
EC. No.	No. 21-41/2009-IA.III (Enclosed as Annexure 1)
Area Details	456.27 Hectares
Water Requirement	4.5 MLD Source: CMWSSB (Enclosed as Annexure 2)
Project Cost	Rs.240 Crore

2. LOCATION MAP



3. SITE PHOTOGRAPHS

SIPCOT PROJECT OFFICE



SIPCOT PROJECT OFFICE ENTRANCE





PHOTOGRAPHS OF THERVOYKANDIGAI LAYOUT DISPLAYED IN PROJECT OFFICE



Photographs of Industries within the IP



4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

PART A- SPECIFIC CONDITIONS

I. Construction Phase

Construction Phase	Not applicable since construction is completed
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Consent to Establishment has been obtained from TNPCB and CTE copy is enclosed as **Annexure-3**. Individual Industries are mandated to obtain CTE & CTO.

II. Operation Phase

S.NO	CONDITIONS	STATUS OF COMPLIANCE
i.	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Tamil Nadu State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.	Condition is being complied. SIPCOT has instructed all member units to have Sewage Treatment Plant. STP photos are enclosed as Annexure - 4 .
ii.	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.	Condition is being complied. Individual Industries are instructed to have their own solid waste management system. Photographs of the Solid Waste Management area are enclosed as

iii.	Diesel power generating sets proposed as source of backup 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. Use low Sulphur diesel. The location of the DG sets may be decided with in consultation with Tamil Nadu State Pollution Control Board.	Individual units will have their own DG set for emergency power backup. DG photo of individual unit is provided in Annexure -6.
iv.	Noise should be controlled to ensure that it does not exceed 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.	Condition is being complied. Noise monitoring reports are enclosed as Annexure-7.
v.	The green belt of the adequate width and density preferably with local species along the periphery of the complex shall be raised so as to provide protection against particulates and noise.	Condition is being complied. Green belt photos are enclosed as Annexure-8.
vi.	Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.	Condition complied. Photographs of rainwater harvesting & Weep holes are enclosed as Annexure - 9.
vii.	Rain water harvesting for roof surface run-off, as proposed should be implemented. Before recharging the surface run off, pre- treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table.	Condition is being complied. Photograph of Individual industry having rainwater harvesting, systems are enclosed as Annexure-9.

viii.	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	Condition is being complied. The ground water quality monitoring report is enclosed as Annexure- 7.
ix.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking loading and unloading facility should be fully internalized and no public space should be utilized.	Condition complied. Photographs of Parking facility provided by industries are enclosed as Annexure - 10.
x.	Energy conservation measures like installation of CFLs/TFLs for the lighting the common areas 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.	Condition is being complied. Photographs of LED street lights are enclosed as Annexure - 10.
xi.	Efforts may be made to use solar energy to the maximum extent possible.	All the member units are advised to comply with.
xii.	Adequate measures should be taken to prevent odour problem from Solid waste processing plant and STP.	SIPCOT has earmarked separate area for processing Solid Waste generated within the Industrial Park. Further, Individual member units are mandated to have their own solid waste management system and STP as per their requirement. Photographs are enclosed as Annexure - 4 & Annexure -5.

Part – B. General Conditions

S.NO	CONDITIONS	STATUS OF COMPLIANCE
i.	The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.	Condition noted.
ii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Condition is being complied.
4.	Officials from the Regional Office of MoEF, Bangalore who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the projects, proponents during their inspection. A complete set of all the documents, submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Bangalore.	Condition noted.
5.	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.
6.	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.	Condition noted.
7.	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	Condition Noted.

	(Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	
8.	These 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 EIA Notification, 2006.	Condition Noted.
9.	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 Tamil Nadu Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 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 Bangalore.	Condition complied. Newspaper advertisement photos are enclosed as Annexure -11.
10.	Environmental 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.

11.	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	No appeal lies against this environmental clearance.
12.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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.	Condition complied. The clearance letter as also been uploaded on website and enclosed as Annexure -12 .
13.	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.	Condition is being complied. The six monthly compliance report is uploaded in the website and the screenshot of the same is enclosed as Annexure -13 .

14.	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.	Condition is being complied. Acknowledgement copy for submission of Form – V to TNPCB is enclosed as Annexure -14.
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5. ENVIRONMENTAL MONITORING DETAILS

It is mandatory to submit six month compliance report of EC conditions to MoEF & CC Regional Office by the proponent. For the purpose of submitting Six-Monthly Compliance report, the environmental monitoring was carried out 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 operation 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) 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 - 7**.

5.2 Ambient Noise level monitoring

Ambient noise level monitoring reports recorded during the period of April 2024 to September 2024 is enclosed in **Annexure -7**.

5.3 Soil quality monitoring

The Soil samples were collected and analyzed for nutrients and heavy metals. The test report of soil samples collected and analyzed during April 2024 to September 2024 is enclosed as **Annexure -7**.

5.4 Ground water quality monitoring

Ground water was tested for various water quality parameters during April 2024 to September 2024. The test report of bore well water collected and analyzed is enclosed as **Annexure-7**.

5.5 Surface water quality monitoring

Surface water is collected for various water quality parameters during April 2024 to September 2024. The test reports of surface water collected and analyzed is enclosed as **Annexure- 7**.

6.0 CONCLUSION

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



Dr. RAJKUMAR SAMUEL
Director Technical

Name: Dr. Rajkumar Samuel

Designation: Director Technical

Company Name: Hubert Enviro Care
Systems Private Limited

Annexure

No. 21-41/2009-IA.III
 Government of India
 Ministry of Environment & Forests

17 AUG 2010
 Paryavaran Bhawan,
 CGO Complex, Lodhi Road,
 New Delhi-110 003.

Dated: 9th August, 2010.

To,
 The Chairman & Managing Director,
 M/s. State Industries Promotion Corporation of Tamil Nadu,
 (A Government of Tamil Nadu Undertaking)
 19-A Rukmani Lakshmi Pathy Road,
 Egmore, Chennai - 600 008.

Subject: Environmental Clearance for the development of
 Industrial Park at SIPCOT, Thervoy Kandigal, Thirvallur
 District, Tamil Nadu by M/s. State Industries Promotion
 Corporation of Tamil Nadu Ltd.(SIPCOT) - Reg.

Dear Sir,

This has reference to your application No. P& SP/SIP-TK/2009 dated 6.10.2010 and subsequent letter dated 04.05.2010 seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 20th November, 2009 and 28th - 29th June, 2010.

2. It is, interalia, noted that the project involves the development of a Industrial Park on a plot area of 456.27 ha at Latitude 13 ° 21'33"N to 13 ° 22'80"N and Longitude 79 °58'41" E to 79 °59'49"E. The developed plots will be allotted to set up industries like Synthetic rubber (tubes / tyres, industrial products), Engineering fabrication / manufacturing units and Glass industries, etc. The total area under industrial plots will be 369.83 ha (81.05%). The total water requirement proposed is 4.5 MLD, which will be met by Chennai Metropolitan Water Supply and Sewage Board (Metro water) through the desalination plant. No industry will be permitted to discharge waste water and solid waste from outside the industrial park. The Hazardous wastes will be disposed at Common Hazardous Wastes Management facility at Gummidipponda. A 40 m wide green belt is proposed around the boundary of industrial park and both sides of major roads. The total cost of the project is 240 crores.



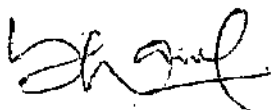
The TOR for the project was issued on 14.12.2009 and the public hearing was conducted on 30.04.2010.

3. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environmental Clearance for the project. Accordingly, the Ministry hereby accord necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification - 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

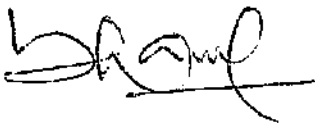
PART A - SPECIFIC CONDITIONS

I. Construction Phase

- (i) "Consent for Establishment" shall be obtained from Tamil Nadu State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (ii) Possibility shall be explored for providing a Common Sewage treatment Plant of modular form instead of individual STPs.
- (iii) Sewage conveyance shall be through the closed pipeline.
- (iv) Ensure zero discharge by the member industries.
- (v) Transportation and disposal of Hazardous Wastes shall be as per Rules.
- (vi) All the assurance made during Public hearing especially providing grassland for cattles shall be complied.
- (vii) The storm water drainage shall be worked out after analyzing the contour levels of the site and the surrounding area and the capacity of storm water drainage.
- (viii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (ix) A First Aid Room will be provided in the project both during construction/development of the project.



- (x) All the topsoil excavated during the development activities should be stored for use in horticulture/landscape development within the project site.
- (xi) Disposal of muck during the development phase should not 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.
- (xii) 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.
- (xiii) The diesel generator sets if used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (xiv) 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.
- (xv) 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.
- (xvi) 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 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/ TNSPCB.
- (xvii) 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. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations).
- (xviii) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xix) Water demand during construction phase should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.



- (xx) Permission to draw ground water shall be obtained from the competent Authority prior to development of the project.
- (xxi) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xxii) 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.
- (xxiii) Regular supervision of the above and other measures for monitoring should be in place all through the development phase, so as to avoid disturbance to the surroundings.
- (xxiv) 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.

II. Operation Phase

- i) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralised treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Tamil Nadu State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.
- ii) 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.
- iii) 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. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Tamil Nadu State Pollution Control Board.
- iv) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured


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

- v) The green belt of the adequate width and density preferably with local species along the periphery of the complex shall be raised so as to provide protection against particulates and noise.
- vi) Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
- vii) Rain water harvesting for roof surface run-off, as proposed should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
- viii) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- ix) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking loading and unloading facility should be fully internalized and no public space should be utilized.
- x) Energy conservation measures like installation of CFLs/TFLs for the lighting the common areas 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.
- xi) Efforts may be made to use solar energy to the maximum extent possible.
- xii) Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.

PART - B. GENERAL CONDITIONS

- i) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
- ii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail).



to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

4. Officials from the Regional Office of MOEF, Bangalore 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 should be forwarded to the CCF, Regional office of MOEF, Bangalore.
5. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
6. 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.
7. 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.
8. These 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 EIA Notification, 2006.
9. 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 Tamil Nadu Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 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 Bangalore.
10. Environmental 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.
11. Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of




30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

12. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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.

13. 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, 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.

14. 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 by e-mail.


(Bharat Bhushan)
Director (IA)
08.08.2010

Copy to:

- (1) The Secretary, Department of Environment, Government of Tamil Nadu, Chief Secretariate, Chennai.
- (2) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110 032.
- (3) The Chairman, Tamil Nadu State Control Board, Chennai.
- (4) The CCF, Regional Office, Ministry of Environment & Forests(SZ), Kendriya Sadan, IVth floor, E&F wings, 17th Main Road, Koramangala II Block, Bangalore - 560 034.
- (5) IA - Division, Monitoring Cell, MOEF, New Delhi - 110003.
- (6) Guard file.

/

(Bharat Bhushan)
Director (IA)

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MINUTES OF THE 316th MEETING OF BOARD OF DIRECTORS OF
C.M.W.S.S. BOARD HELD AT 3.00 p.m. ON 09-09-2010.

AGENDA ITEM NO.16

RES.NO.168/2010

Engineering - O&M - T&T - RO II - Development of infrastructure facilities at Thervaikandiagai Village, Gummidipoondi Taluk - Providing water supply from Redhills Estimate revised - Subject placed before the Board for approval.

The Board took note of the details putforth in the agenda and the recommendations of the Management Committee and after detailed discussion the Board resolved to accord approval on the following:

- (i) to take up the work of laying pipeline and constructing booster stations for supplying 14 MLD of water to SIPCOT Industrial Park, Thervaikandiagai at a tentative cost of Rs.48.80 crores and an annual Operation & Maintenance Cost of Rs.0.70 crore. The expenditure towards this work to be borne by the SIPCOT.
- (ii) to supply 14 MLD of water to the SIPCOT Industrial Park, Thervaikandiagai from the Redhills Water Treatment Plant.
and
- (iii) to collect charges towards supply of water at Rs.80/- per KL with 5% increase every year.

K. ASHOK VARDHAN SHETTY, 14.09.2010
CHAIRMAN.

/s.c.f.b.o./

[Signature]
14/09/10
SECRETARY.

[Signature]
14/09/10



EE/R.011

to file + put up a
draft to SIPCOT intimating
the revised cost.

[Signature]
20/9/10
SECRETARY

By Registered Post with Acknowledgment Due
(This document contains 11 Pages)

128 APR 2011



TAMILNADU POLLUTION CONTROL BOARD

CONSENT ORDER No:5541 Dated:21.04.2011.

PROCEEDINGS NO. T2/TNPCB/F-30016/W/RL/TLR/2011 Dated:21.04.2011.

Consent for Establishment under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974, as amended in 1988.

Sub. TNPC Board Consent for establishment - M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI,(Extent of 456.27 ha and in which total area under industrial plots of 369.83 ha(81.05%) bearing S Nos.32/2 and 33/2 of Thervoykandigai mentioned in the Consent Applications), Thervoy Kandigai Village, Gummidipoondi Taluk,Tiruvallur District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974, as amended in 1988 (Central Act 53 of 1988).

- Ref. 1. MoEF, Gov. EC No. 21-41/2009-IA III, Dated 09.08.2010.
2. Your application for consent Dated 24.09.2010.
3. Hon'ble High Court order in W.P.No.9319 of 2009 and Contempt Petition No.802 of 2009, passed on 16.09.2009.
4. Hon'ble Supreme Court order in SLP(Civil)Nos.1386 & 1387 OF 2010, passed on 08.03.2010.
5. Sub Committee -TSC II ITEM NO. 60- 11, Dated.08.04.2011.

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 53 of 1988) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Occupier,

M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI,

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

(Extent of 456.27 ha and in which total area under industrial plots of 369.83 ha(81.05%) bearing S.Nos.32/2 and 33/2 of Thervoykandigai mentioned in the Consent Applications),

THERVOY KANDIGAI VILLAGE,GUMMIDIPOONDI TALUK,
TIRUVALLUR DISTRICT

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POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

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

Sd/- xxx
Member Secretary
Tamilnadu Pollution Control Board
Chennai

To

The Occupier,
M/s. SIPCOT INDUSTRIAL PARK - THERVOY KANDIGAI,
(Extent of 456.27 ha and in which total area under
industrial plots of 369.83 ha(81.05%)
bearing S.Nos.32/2 and 33/2 of Thervoykandigai
mentioned in the Consent Applications),
THERVOY KANDIGAI VILLAGE,
GUMMIDIPOONDI TALUK,
TIRUVALLUR DISTRICT. — 601 202

Copy to:

1. The District Environmental Engineer,
Tamilnadu Pollution Control Board,
Thiruvallur - for information and necessary action.
2. The Commissioner
Thervoy Kandigai Village Panchayat,
Thervoy Kandigai.
3. BMS

Technical Section

//Forwarded by order//

For Member Secretary.

Vf 25411

POLLUTION PREVENTION PAYS

அகம் காய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!

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TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

1. DETAILS OF THE PRODUCTS MANUFACTURED

Sl.No.	Description	Quantity/ Month
--------	-------------	-----------------

The applicant activity is an Industrial Park to set up industries like Synthetic Rubber(tubes/tyres, industrial products), Engineering Fabrication/ manufacturing units and Glass industries, etc., and undertaking development, maintenance of the common infrastructure such as roads,water supply,sewage treatment plant,storm water drainage system and sewerage system.

This consent to establish is valid for the manufacture of products and the rate of production mentioned above. Any change in rate of and the quantity or quality of the products has to be brought to the notice of the Board.

2. The unit shall install Effluent Treatment Plants as proposed, to ensure that the effluent to be discharged shall satisfy the standards prescribed by the Board for disposal of effluent into inland surface waters/public sewers/marine coastal areas/on land for irrigation, as indicated in the Annexure - 1.
3. The unit shall install sewage treatment system for the treatment of wastewater arising out of the sanitary facility and waste water generated from canteen as proposed in Annexure - 1.
4. The unit shall construct effluent drains/cable drains/storm waster drains separately and provide different colour, sign boards along with alignment of various drains as indicated in the site plan, furnished by the industry.
5. Each vessel/reactor should have its own catch pit for the collection of pills and each pump in the process section must be mounted on its own catch pit with the suction line of the pump connected to pit to empty periodically/regularly/continuously.
6. It has to be ensured by the unit that the floors with the expanded metal, slotted angle stool sinks, steel gates shall be built to the maximum possible to avoid floor washings.
7. If the plant layout demands that the vessels should be installed in upper floor, it shall provide suitable system to minimise spill/leakages and also to collect and drain the spillages into effluent drain leading to the Effluent Treatment Plant by providing suitable gradient to the properly lined bottom floor.



TAMILNADU POLLUTION CONTROL BOARD

8. The unit shall construct tank or lagoon of adequate capacity with compatible impervious material for the storage of hazardous/solid wastes.
9. The unit shall ensure that the corrosion prone areas and construction material liable to atmospheric and process induced corrosion shall be given special attention for immediate replacement with least preventive maintenance.
10. The unit has to provide facilities separately outside the main production plant for carrying out detoxification operations if any.
11. In order to collect spills from a particular vessel before the spilled materials get a chance for contamination with spills from another vessel, the two vessels must be installed at sufficient distance to ensure that inter contamination cannot take place.
12. Flange joints in the pipelines should be avoided wherever possible.
13. The unit shall establish laboratory with adequate analytical equipments for analysing the trade effluent/sewage as well as samples of water collected from the wells nearby if any.
14. The unit shall construct compound wall around the boundary of the unit, to adequate height from ground level.
15. The unit shall appoint an Environmental Engineer with experience of minimum three years in maintenance of waste water treatment plants, before commissioning, along with supporting staff, chemist, technician and operators.
16. Following location specific conditions must be satisfied:
 - (i) - pl. vide Annexure
 - (ii)
 - (iii)
17. The following process specific conditions must be satisfied:
 - (i) - pl. vide Annexure
 - (ii)
 - (iii)
18. The applicant unit an Industrial Park, M/s. Sipcot Industrial Park -Thervoy Kandigai, (Extent of 456.27 ha and in which total area under industrial plots of 369.83 ha(81.05%) bearing S.Nos.32/2 and 33/2 of Thervoykandigai mentioned in the Consent Applications), Thervoy Kandigai Village, Gummidipoondi Taluk, Tiruvallur

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TAMILNADU POLLUTION CONTROL BOARD

District, is legally responsible under the provisions of enacted environmental Acts for the setting up of industries like Synthetic Rubber(tubes/tyres, industrial products), Engineering Fabrication/ manufacturing units and Glass industries, etc., and undertaking development, maintenance of the common infrastructure such as roads, water supply, sewage treatment plant, storm water drainage system and sewerage system.

19. The unit shall ensure that no industrial activities specified in G.O.Ms.No.213, Environment & Forests Department, Dated:30.03.1989 and G.O.Ms.No.127, Environment & Forests Department, Dated:08.05.1998 should be established in the Industrial Park premises.
20. The unit shall ensure that treated/untreated sewage/industrial trade effluents shall not gain access to the water bodies located around the premises and also shall not be discharged either inside or outside the premises.
21. The unit has to ensure that development, maintenance of the common infrastructure such as roads, water supply, sewage treatment plant, storm water drainage system, sewerage system, parking facility and solid waste management system to be undertaken shall not cause any environmental degradation to the land, water sources and air as a whole.
22. No industry in the applicant Industrial Park shall be permitted to carry out establishment works without obtaining CTE of the TNPC Board.
23. The applicant unit shall furnish appropriate land use reclassification certificate obtained from the competent authority before applying CTO.
24. The quantity of domestic waste water (sewage effluent) discharge shall not exceed 0.50 cu.m./day. Sewage shall be disposed as committed after adequate treatment and confirm to the following standards.

pH	5.5 - 9.0
BOD	Less than 20 mg/l
Suspended Solids	Less than 30 mg/l

25. The applicant-unit shall have to comply with provisions of Hazardous Waste (Management & Handling) Rules 1989 as amended from time to time.



TAMILNADU POLLUTION CONTROL BOARD

26. No member industry will be permitted to discharge wastewater and Solid waste from outside the Industrial Park and shall ensure zero discharge by the member industries.
27. The applicant unit shall establish a laboratory and technical crew comprising of environmental engineers/scientists, chemists, experienced mechanics and electricians with adequate training in (O&M) of the proposed effluent treatment systems / air pollution control measures in order to maintain the wholesomeness of the Industrial Park.
28. The applicant unit and its member industries shall obtain ISO 14000 certification for it's environmental compliance.
29. 25% of the land area acquired by the applicant unit including all beneficiary units shall be developed as a green belt with trees having a thick canopy cover. The applicant unit shall also maintain the trees planted outside the premises. The species of trees should be chosen in consultation with the local DFO and seedlings should be at least 2 mt. tall. If no space is available within the premises, trees shall be planted outside the premises. The unit shall adopt drip irrigation system for green belt development.
30. The consent to establish is issued without prejudice to the right of Tamilnadu Pollution Control Board to collect consent fees for this consent order at the rates to be revised by the Government of Tamilnadu.
31. The applicant unit must provide Rainwater Harvesting facilities within the premises so as to increase the recharging of ground water in that area. Necessary permission shall be obtained from irrigation department for rainwater harvesting and recharging work. Basic survey of existing contours should be made to study the present natural drainage system. Natural drain/flow should not be obstructed by any kind of work for this. The applicant unit should submit detailed report stating technical aspects and methodology of water harvesting system along with all components and get approval thereof.
32. The applicant unit shall furnish the Environmental Statement for the financial year ending the 31st March of Tamilnadu Pollution Control Board on or before the thirtieth day of September every year in Form V as per Rule 14 of the Environmental (Protection) Rules, 1986 as amended.
33. The premises of the Industrial Park shall both inside and outside should be kept clean. Attention should be given to good housekeeping within the premises and the immediate vicinity of the factory. All pipes, valves, sewers and drains shall be leak



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TAMILNADU POLLUTION CONTROL BOARD

- proof. Floor washings should be drained into the effluent collection system only and should not be drained into storm water drains or open areas. There should not be any debris, plastic wastes other rubbish etc., lying within or outside the factory.
34. The applicant unit and all its beneficiary activities units should not be commenced without obtaining consent to operate from the Tamilnadu Pollution Control Board.
 35. The applicant unit shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act 1977.
 36. The solid waste generated in the complex should be segregated, treated and disposed off as per the provisions contained in the Municipal Solid Waste Rules, 2000.
 37. The applicant unit an Industrial Park, M/s SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall ensure that its activities have authorization of the Board for waste oil/ used oil generated from the applicant unit, and shall be managed / handled as per Hazardous Waste (Management & Handling) Rules 1989 as amended.
 38. The applicant unit should obtain prior authorization of the Board for Bio Medical waste generated from health care facility and shall be managed and handled as per Bio Medical Waste Rules 1998.
 39. The project authorities, as part of their environmental management, shall prepare and implement a scheme for protection of the flora and fauna.
 40. The services like health and education facilities which may be developed as part of the complex should be accessible to the nearby villagers at an affordable price.
 41. The project shall resort to solar energy to the extent possible and particularly in the supply of hot water and street lighting.
 42. A community welfare scheme for improving the socio-economic environment should be worked out and shall be converted into a time bound action plan. A report in this regard shall be submitted to the Board and Government for review.
 43. If it is established by any competent authority that the damage is caused due to their activities to any person or his property in that case they are obliged to pay the compensation as determined by the competent authority.
 44. The applicant unit shall have to register the Industrial Park under the provisions of the Factories Act 1948 and shall obtain the necessary Factory License.
 45. The Environmental Management Unit / Cell shall be setup to ensure implementation and monitoring of Environmental safe guards and other conditions stipulated by



TAMILNADU POLLUTION CONTROL BOARD

statutory authorities. The Environmental Management Unit / Cell shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing Environmental Issues. This Cell shall also co-ordinate the exercise of Environmental Audit and preparation of Environmental Statements.

46. The applicant unit shall have to obtain public liability insurance policy as per PLI Act 1991 and submit the copy of the same to the Board.
47. The unit shall have and use only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without satisfying with the TNPC Board Norms prescribed. The unit shall not keep any bypass line or system or loose or flexible pipe for discharging effluent outside or even for transporting treated or un-treated effluent within the premises, within effluent treatment plants or in the compound of the park premises.
48. The printed log books shall be maintained and get it certificate for a). Energy / Fuel consumption b). Wastewater / gaseous flow at inlet and outlet of STP and Air Pollution Control Measures. c). Quantity of sludge generated d). Laboratory analysis / reports for each of the specified parameters of liquid effluents and sludge samples.
49. The ground water quality around the Industrial Park shall should be monitored on a regular basis. The monitored data should be submitted to the TNPC Board once in six months.
50. Periodical medical check up of the workers should be done and records maintained as a measure to provide occupational health service to the workers.
51. The facilities to be constructed for the project shall not cause any inconvenience or disturbance to the local communities including the farmers.
52. The applicant unit, an Industrial Park, M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall ensure that the topsoil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
53. The applicant unit, an Industrial Park, M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall ensure that 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.
54. The applicant unit, an Industrial Park, M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall ensure that fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and



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TAMILNADU POLLUTION CONTROL BOARD

amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100 Km of thermal Power Stations.)

55. The applicant unit, an Industrial Park, M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall ensure that 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.
56. The applicant unit, an Industrial Park, M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall comply with the specific conditions imposed under heads in the Environmental Clearance issued by Ministry of Environment and Forests, Government of India, in EC.No: 21-41/2009-IA.III, Dated:09.08.2010, viz., (Part-A) I. Construction Phase, II. Operation Phase and Part-B. General Conditions scrupulously.
57. The applicant unit, an Industrial Park, M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall ensure that there shall be no discharge of effluents on land or any water resources and if the applicant unit / member units fails to achieve the same for any reason, all it's beneficiary units shall stop their production and operations in the process house forthwith and restart the same after ensuring that the discharge of effluents on land or any water resources is restrained.
58. The applicant unit, an Industrial Park, M/s.SIPCOT INDUSTRIAL PARK -THERVOY KANDIGAI, shall ensure that all the member/beneficiary units have to apply for consent to establish under the Water & Air Acts and no establishment activities shall be carried out by the member/beneficiary units without obtaining the consent to establish under the Water & Air Acts.
59. The unit shall dispose the E-waste from the Industrial Park as well as in their registered offices through the Authorised E-waste recyclers notified in TNPC Board web site.

Sd/- xxx
MEMBER SECRETARY
TAMIL NADU POLLUTION CONTROL BOARD
CHENNAI.

//Forwarded by order//

[Signature]
For Member Secretary.

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POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS.

1. The above Consent to establish cannot be construed as Consent to operate.
2. The industry shall make a request for grant of consent to operate atleast sixty days before the commissioning of trial production.
3. The applicant shall maintain good house-keeping both within the factory and in the premises. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way to storm water drains or open areas.
4. The unit has to provide sludge and silt traps and manholes along the effluent drains for periodical desilting and desludging operation.
5. All places of storage of solid/liquid material are to be dyked with bunding facilities and the flooring within the dyked and bunding area shall be lined and impervious materials depending upon the nature of the solid/liquid to be stored.
6. As the unit proposes to utilise the treated trade effluent on inland for irrigation, the land has to be made fit for irrigation in consultation with the agricultural scientist to avoid more percolation.
7. Samples of water from the wells or any other nearby water sources have to be taken by the unit and get them analysed by the Board Laboratory to develop base line data to assess the existing water quality.
8. The unit shall provide separate power connection for the Effluent Treatment Plant and install separate energy meter for Effluent Treatment Plant as well as for aerators if any.
9. The unit shall provide an alternate power source sufficient to operate all the facilities to be installed in Effluent Treatment Plant by the applicant.
10. This consent does not authorise or approve the construction of any physical structures or facilities or the undertaking of any work in any natural water course.
11. 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.



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TAMILNADU POLLUTION CONTROL BOARD

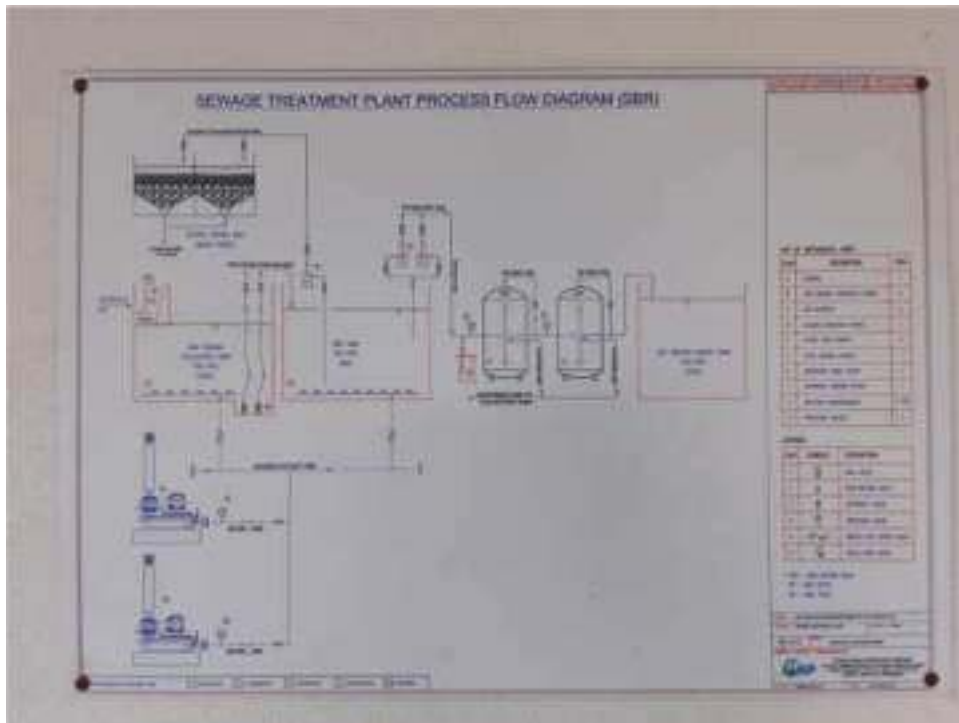
12. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. Consent to operate will not be issued unless the unit complied with the conditions of Consent to establish, otherwise, the order of Consent to establish already issued will be revoked with immediate effect.

Sd/- xxx
MEMBER SECRETARY
TAMIL NADU POLLUTION CONTROL BOARD
CHENNAI.

//Forwarded by order//

[Handwritten Signature]
For Member Secretary.

STP





Solid Waste Management





Diesel generator





TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Atmospheric Pollution

Sample Name : Ambient Air(All)

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

ULR : TC1231024000043156F

Report No. : HECS/AP/007/100924

Sample ID No : 100924059

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 14/09/2024

Report Date : 14/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m ³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH ₃	µg/m ³	7.81	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m ³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO ₂	µg/m ³	22.76	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	11.68	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	53.81	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	22.76	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO ₂	µg/m ³	11.23	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m ³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report



D. Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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

Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Atmospheric Pollution
Sample Name : Ambient Air(AH)
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. : HECS/AP/007/100924/N
Sample ID No : 100924059
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 14/09/2024
Report Date : 14/09/2024
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



TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Chinna Puliyur

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

ULR : TC:1231024000043157F

Report No. : HECS/AP/008/100924

Sample ID No : 100924060

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 14/09/2024

Report Date : 14/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene- AAQ	ng/m ³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH ₃	µg/m ³	5.87	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m ³	BLQ(LOQ:0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO ₂	µg/m ³	20.76	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	12.15	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	52.69	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	22.39	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO ₂	µg/m ³	11.76	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m ³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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

Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Atmospheric Pollution
Sample Name : Ambient Air(AH)
Sample Mark : Chinna Puliyur
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. : HECS/AP/008/100924/N
Sample ID No : 100924060
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 14/09/2024
Report Date : 14/09/2024
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,
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Laboratory Services Division

(Chemical & Biological Testing)
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ISO 9001, 14001 & 45001 Certified.



TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Near Karadipudur

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

ULR : TC1231024000043158F

Report No. : HECS/AP/009/100924

Sample ID No : 100924061

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 14/09/2024

Report Date : 14/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m ³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH ₃	µg/m ³	5.68	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/m ³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO ₂	µg/m ³	23.71	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	12.15	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	47.69	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	22.19	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO ₂	µg/m ³	11.28	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m ³	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



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Laboratory Services Division

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Atmospheric Pollution
Sample Name : Ambient Air(Air)
Sample Mark : Near Karadipudur
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. : HECS/AP/009/100924/N
Sample ID No : 100924061
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 14/09/2024
Report Date : 14/09/2024
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



TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Atmospheric Pollution

Sample Name : Ambient Air(All)

Sample Mark : Near Kollanur

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

ULR : TC1231024000043159F

Report No. : HECS/AP/010/100924

Sample ID No : 100924062

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 14/09/2024

Report Date : 14/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m ³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH ₃	µg/m ³	7.23	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m ³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO ₂	µg/m ³	21.52	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	10.89	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	52.15	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	24.68	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO ₂	µg/m ³	11.53	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m ³	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, ng/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.Amudaya
Lab Manager
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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Atmospheric Pollution

Sample Name : Ambient Air(All)

Sample Mark : Near Kollamur

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. : HECS/AP/010/100924/N

Sample ID No : 100924062

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 14/09/2024

Report Date : 14/09/2024

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

**TEST REPORT**

Page : 1 of 1

ULR : TC1231024000043160F
Report No. : HECS/AP/011/100924
Sample ID No : 100924063
Sampling Date : 10/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Atmospheric Pollution

Sample Name : Ambient Air(AI)

Sample Mark : Near Thervoy Village

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 : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 14/09/2024

Report Date : 14/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m ³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m ³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m ³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH ₃	µg/m ³	7.69	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m ³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause-4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO ₂	µg/m ³	23.71	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O ₃	µg/m ³	12.28	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m ³	44.91	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m ³	22.69	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO ₂	µg/m ³	11.96	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m ³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Atmospheric Pollution
Sample Name : Ambient Air(AI)
Sample Mark : Near Thervoy Village
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. : HECS/AP/011/100924/N
Sample ID No : 100924063
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 14/09/2024
Report Date : 14/09/2024
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

**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

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) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043342F

Report No. : HECSL/WT/027/100924

Sample ID No : 100924070

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH ₃	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	70.0	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	26.05	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	25.47	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

**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

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) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043342F

Report No. : HECSL/WT/027/100924

Sample ID No : 100924070

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

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	303.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.23	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.22	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	10.93	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	5.88	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	21.18	HECS /WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.78	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	2.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	0.58	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	14.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA



D. Anusuya
Lab Manager
Authorized Signatory



TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

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) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043342F

Report No. : HECSI/WT/027/100924

Sample ID No : 100924070

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	11.74	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO ₃	mg/l	70.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	161.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	6.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO ₄	mg/l	0.091	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorus as P	mg/l	0.027	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	110.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	2.9	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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**TEST REPORT**

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

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): 28.0 | Humidity (%): 49.0

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

UIR : TC1231024000043342F

Report No. : HECSL/WT/027/100924

Sample ID No : 100924070

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

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



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigal
Group : Water
Sample Name : Ground Water (All)
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) : 28.0 | Humidity (%) : 49.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/027/100924/N
Sample ID No : 100924070
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 16/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Litre

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 litre.
End of Report



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TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Karadipudur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043343F

Report No. : HECSL/AVT/028/100924

Sample ID No : 100924071

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre.

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH ₃	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	90.0	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	34.07	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	88.19	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



TC-12310

**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Karadipudur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043343F

Report No. : HECSLAWT/028/100924

Sample ID No : 100924071

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date: 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

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	554.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.35	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.097	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	18.23	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	28.14	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	36.34	HECS /WT/SOP/002:: 2019	NA	NA
19	pH at 25°C	-	6.95	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	5.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	1.51	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	44.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA



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Authorized Signatory

**TEST REPORT**

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Karadipudur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

 ULR : TC1231024000043343F
 Report No. : HECSL/WT/028/100924
 Sample ID No : 100924071
 Sampling Date : 10/09/2024

 Received Date : 10/09/2024
 Commenced Date : 10/09/2024
 Completed On : 16/09/2024
 Report Date : 16/09/2024
 Sample quantity : 1 Litre

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	27.36	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO ₃	mg/l	90.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	323.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	7.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO ₄	mg/l	0.079	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.024	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	160.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	3.4	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5


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TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Karadipudur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043343F

Report No : HECSLAWT/028/100924

Sample ID No : 100924071

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

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



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Water
Sample Name : Ground Water (All)
Sample Mark : Near Karadipudur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/028/100924/N
Sample ID No : 100924071
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 16/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Litre

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 litre.
End of Report



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TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Thervoy Village

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

U/LR : TC1231024000043344F

Report No. : HECSL/WT/029/100924

Sample ID No : 100924072

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH ₃	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	140.0	IS 3025 Part 31: 2001	NA	NA
4	Biological Oxygen Demand (BOD) ₅ @ 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	36.07	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	83.28	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



D.Anusuya
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Authorized Signatory

**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Thervoy Village

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043344F

Report No. : HECSL/WT/029/100924

Sample ID No : 100924072

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

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	560.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.39	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.054	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	19.44	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	%	33.19	HECS /WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.61	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	3.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	1.33	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	40.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA

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**TEST REPORT**

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Thervoy Village

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043344F

Report No. : HECSL/WT/029/100924

Sample ID No : 100924072

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date: 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	37.14	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO ₃	mg/l	140.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	334.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	2.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO ₄	mg/l	0.091	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.027	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	170.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	1.2	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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**TEST REPORT**

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Thervoy Village

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

U/LR : TC1231024000043344F

Report No. : HECSI/WT/029/100924

Sample ID No : 100924072

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Litre

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



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Water
Sample Name : Ground Water (All)
Sample Mark : Thervoy Village
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/029/100924/N
Sample ID No : 100924072
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 16/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Litre.

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 litre.
End of Report



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TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Surface Water (AB)

Sample Mark : Lake near Thervoy Kandigai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043345F

Report No. : HECSL/WT/030/100924

Sample ID No. : 100924073

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	60.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD) ₅ @ 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 (Circumim Method)	NA
5	Calcium as Ca	mg/l	9.61	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	28.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	35.27	IS 3025 Part 37: 1988 (Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.2	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	245.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition Method 4500 F -B.D: 2017	1.5
12	Iron as Fe	mg/l	0.24	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO ₃	mg/l	4.38	APHA 23rd edition Method 4500 NO ₃ B: 2017	20

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**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake near Thervoy Kandigai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043345F

Report No. : HECSL/WT/030/100924

Sample ID No : 100924073

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C		8.12	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	135.0	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	5.34	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	44.60	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	0.21	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	2.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	1.02	IS 11624: 2019	NA

D.Anusuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake near Thervoy Kandigai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043345F

Report No. : HECSL/WT/030/100924

Sample ID No : 100924073

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	16.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO4	mg/l	10.17	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO3	mg/l	60.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO3	mg/l	46.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	0.064	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	10.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	4.8	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

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Laboratory Services Division

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



TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Water
Sample Name : Surface Water (All)
Sample Mark : Lake near Thervoy Kandigai
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0
Sampling Method & Plan : IS 17614(Part-1):2021

ULR : TC1231024000043345F
Report No. : HECSL/WT/030/100924
Sample ID No : 100924073
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 16/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 3296 Class)
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



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Water
Sample Name : Surface Water (All)
Sample Mark : Lake near Thervoy Kandigai
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/030/100924/N
Sample ID No : 100924073
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 16/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Kg

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
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**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake near Palavakkam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043346F

Report No. : HECSL/WT/031/100924

Sample ID No : 100924074

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	50.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	4.0	IS 3025 Part 44: 1993	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	17.63	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	36.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	30.37	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	6.4	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	281.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	BLQ(LOQ:0.2)	APHA 23rd edition Method 4500 F -B.D: 2017	1.5
12	Iron as Fe	mg/l	0.46	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO ₃	mg/l	5.78	APHA 23rd edition Method 4500 NO3B: 2017	20

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TC-12310

**TEST REPORT**

Page : 2 of 4

ULR : TC1231024000043346F
 Report No. : HECSL/WT/031/100924
 Sample ID No : 100924074
 Sampling Date : 10/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigal

Group : Water
 Sample Name : Surface Water (All)
 Sample Mark : Lake near Palavakkam
 Sample Reference : NA
 Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
 Sample Location : NA
 Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0
 Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 10/09/2024
 Commenced Date : 10/09/2024
 Completed On : 16/09/2024
 Report Date : 16/09/2024
 Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C		7.51	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	152.0	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	9.72	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	27.53	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	0.096	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	1.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	0.71	IS 11624: 2019	NA



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**TEST REPORT**

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kundigai

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Lake near Palavakkam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0

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

ULR : TC1231024000043346F

Report No. : HECSL/WT/031/100924

Sample ID No : 100924074

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 16/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	15.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO4	mg/l	25.74	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO3	mg/l	50.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO3	mg/l	84.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	0.029	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	19.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	10.7	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



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**TEST REPORT**

Page : 4 of 4

ULR : TC1231024000043346F
 Report No. : HEC/SL/WT/031/100924
 Sample ID No : 100924074
 Sampling Date : 10/09/2024

Received Date : 10/09/2024
 Commenced Date : 10/09/2024
 Completed On : 16/09/2024
 Report Date : 16/09/2024
 Sample quantity : 1 Kg

Name of the Client : M/s. SIPCOT
 Address of the Client : Thervoy Kandigai
 Group : Water
 Sample Name : Surface Water (All)
 Sample Mark : Lake near Palavakkam
 Sample Reference : NA
 Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
 Sample Location : NA
 Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0
 Sampling Method & Plan : IS 17614(Part-1):2021

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



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Laboratory Services Division

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Water
Sample Name : Surface Water (All)
Sample Mark : Lake near Palavakkam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 49.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No : HECSL/WT/031/100924/N
Sample ID No : 100924074
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 16/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Kg

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
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**TEST REPORT**

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(All)

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) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043337F

Report No. : HECS/PE/004/100924

Sample ID No. : 100924065

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
1	Cadmium	gm/cm3	BLQ (LOQ: 0.1)	FAO of United Nations Rome - 2007
2	Chromium	%	28.62	IS 2720 (Part 22) Section 1 1972
3	Copper	mEq/100g	7.48	FAO of United Nations, Rome Chapter - III 2008
4	Zinc	mg/kg	17.21	Inhouse method
5	Soil Texture	%	silty clay loam	IS 14684 Clause 4 1999
6	Soil Texture i)Sand	mEq/L	19.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	mEq/L	41.0	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	-	39.8	Inhouse method
9	pH Value @ 25 ° C (1 : 2.5)	mEq/100g	7.56	IS 2720 (Part 24) Clause 5 1976
10	Electrical conductivity @ 25 ° C (1 : 2)	%	126.7	HECS-G/ENV/SSW/SOP/003 Issue No..01 Issue Date:02.07. 2020



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**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(All)

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) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043337E

Report No. : HECS/PE/004/100924

Sample ID No : 100924065

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.12	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.56	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.98	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	10.28	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	%	0.0159	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.54	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	6.74	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.5	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	27.1	IS 14765: 2000
21	Colour		Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
22	Phosphorus	µg/g	BLQ(LOQ 0.5)	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Name of the Client	: M/s. SIPCOT	Report No.	: HECS/PE/004/100924/N
Address of the Client	: Thervoy Kandigai	Sample ID No	: 100924065
Group	: Pollution & Environment	Sampling Date	: 10/09/2024
Sample Name	: Soil(All)	Received Date	: 10/09/2024
Sample Mark	: Project Area	Commenced Date	: 10/09/2024
Sample Reference	: NA	Completed On	: 13/09/2024
Sample Drawn By	: M/s.Hubert Enviro care Systems (P) Ltd.	Report Date	: 16/09/2024
Sample Location	: NA	Sample quantity	: 1 Kg
Environmental Condition	: Temperature (°C) : 31.0 Humidity (%) : 51.0		
Sampling Method & Plan	: ICARDA:2013		

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	159.12	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02.07.2020
2	Iron	mg/kg	2.78	Inhouse method
3	Infiltration Rate	-	4.3	Inhouse method
4	Moisture	%	7.82	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07.2020

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



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**TEST REPORT**

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Chinna Puliur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043338F

Report No. : HECS/PE/005/100924

Sample ID No : 100924066

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	52.04	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	9.21	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	19.23	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	silty clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	19.6	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	40.6	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	39.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.18	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	436.0	IS 14767: 2000



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**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigal

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Chinna Puliyur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043338F

Report No. : HECS/PE/005/100924

Sample ID No : 100924066

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.22	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.48	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.84	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	6.92	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	%	0.0134	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/l.	7.8	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnoesium as Mg	mEq/l.	9.12	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	1.9	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	23.8	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No..01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Pollution & Environment
Sample Name : Soil(All)
Sample Mark : Chinna Puliyur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/005/100924/N
Sample ID No : 100924066
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 13/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	172.32	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	BLQ(LOQ 0.02)	Inhouse method
3	Infiltration Rate	-	5.1	Inhouse method
4	Moisture	%	5.87	HECS-G/ENV/SSW/SOP#003 Issue No.:01 Issue Date:02-07- 2020

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



D.Anusuya
Lab Manager
Authorized Signatory



TC-12318

**TEST REPORT**

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Karadipudur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043339F

Report No. : HECS/PE/006/100924

Sample ID No : 100924067

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	28.04	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.19	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	28.21	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	24.6	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	38.2	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	37.2	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.58	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	1326.0	IS 14767: 2000



D.Anusuya
Lab Manager
Authorized Signatory



TC-12310

**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Karadipudur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043339F

Report No. : HECS/PE/006/100924

Sample ID No : 100924067

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.26	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.47	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.82	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	6.78	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	%	0.0843	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/l.	7.16	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/l.	6.78	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.4	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	25.6	IS 14765: 2000
21	Colour	-	Brown	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
22	Phosphorous	µg/l	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Pollution & Environment
Sample Name : Soil(All)
Sample Mark : Near Karadipudur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/006/100924/N
Sample ID No : 100924067
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 13/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	158.06	HECS-G/INS/SOP/042
2	Iron	mg/kg	BLQ(LOQ 0.02)	Inhouse method
3	Infiltration Rate	-	6.2	Inhouse method
4	Moisture	%	7.32	HECS-G/ENV/SSW/SOP/003 Issue No..01 Issue Date:02.07. 2020

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(AH)

Sample Mark : Near Kollanur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043340F

Report No. : HECS/PE/007/100924

Sample ID No : 100924068

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	35.85	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	7.21	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	23.62	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	silty clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	18.9	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	43.3	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	37.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 °C (1 : 2.5)	-	7.28	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	126.2	IS 14767: 2000



D.Amsuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(AII)

Sample Mark : Near Kollanur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043340F

Report No. : HECS/PE/007/100924

Sample ID No : 100924068

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.20	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.37	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.64	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	7.56	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	%	0.0628	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/l.	7.26	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/l.	7.32	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.6	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	25.8	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Pollution & Environment
Sample Name : Soil(All)
Sample Mark : Near Kollanur
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/007/100924/N
Sample ID No : 100924068
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 13/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	165.24	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	BLQ(LOQ 0.02)	Inhouse method
3	Infiltration Rate	-	5.2	Inhouse method
4	Moisture	%	8.42	HECS-G/ENV/SSW/SOP/003 Issue No.01 Issue Date:02-07-2020

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



D.Anusuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 1 of 3

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigai

Group : Pollution & Environment

Sample Name : Soil(AH)

Sample Mark : Near Thervoy Village

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043341F

Report No. : HECS/PE/008/100924

Sample ID No : 100924069

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	35.62	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	4.28	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	31.20	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	silty clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	17.1	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	42.8	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	40.1	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.46	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	624.0	IS 14767: 2000



D.Anusuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigal

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Near Thervoy Village

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043341F

Report No. : HECS/PE/008/100924

Sample ID No : 100924069

Sampling Date : 10/09/2024

Received Date : 10/09/2024

Commenced Date : 10/09/2024

Completed On : 13/09/2024

Report Date : 16/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.38	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.39	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.68	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	6.16	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	%	0.0276	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	7.96	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	7.86	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.7	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	24.2	IS 14765: 2000
21	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02-07-2020
22	Phosphorous	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter -

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Group : Pollution & Environment
Sample Name : Soil(All)
Sample Mark : Near Thervoy Village
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 51.0
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/008/100924/N
Sample ID No : 100924069
Sampling Date : 10/09/2024
Received Date : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 13/09/2024
Report Date : 16/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	138.22	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	BLQ(LOQ 0.02)	Inhouse method
3	Infiltration Rate	-	4.5	Inhouse method
4	Moisture	%	5.92	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07. 2020

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



D.Anusuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 1 of 1

ULR : TC1231024000043336F
Report No. : HECS/AP/012/100924
Sample ID No : 100924064
Sampling Date : 10/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Thervoy Kandigal

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 : 10/09/2024
Commenced Date : 10/09/2024
Completed On : 13/09/2024
Report Date : 16/09/2024
Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	54.2	40.5
2	Karadipudur	50.2	42.6
3	Kollanur	53.7	43.6
4	Chinnapuliyyur	53.8	41.8
5	Thervoy Village	54.7	44.2

Noise Standards - CPCB:

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

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

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

End of Report

D. Anusuya
Lab Manager
Authorized Signatory



GREEN BELT PHOTOGRAPH





10.09.2024



10.09.2024



10.09.2024

RAINWATER HARVESTING PHOTOGRAPHS



WEEP HOLE PHOTOGRAPH



PARKING AND LED LIGHT PHOTOGRAPH





THE HINDU - dated: 27/08/2010



**STATE INDUSTRIES PROMOTION
CORPORATION OF TAMIL NADU LTD.**

19-A, Rukmani Lakshmi Pathy Road, Egmore, Chennai - 600 008.

ENVIRONMENTAL CLEARANCE

SIPCOT Industrial Park

Thervoykandigai, Thiruvallur District

Environmental Clearance has been obtained for the proposed SIPCOT Industrial Park at Thervoykandigai, Thiruvallur District from Ministry of Environment & Forests, New Delhi, vide their letter No. 21-41/2009-IA. III, dated 09.08.2010

The contents of the letter can be viewed in SIPCOT website : www.sipcot.com and also in the MoEF website : www.envfor.nic.in. Further, the copies of the Environmental Clearance could be obtained from the Head Office of Tamil Nadu Pollution Control Board (TNPCB).

Principal Secretary /

Chairman & Managing Director, SIPCOT,

19-A, Rukmani Lakshmi Pathy Road, Egmore,

Chennai - 600 008.

Visit us at : www.tn.gov.in

DIPR/1082/Display/2010

தமிழ்நாடு தொழில் - திட்டம் : 25704/2010



தமிழ்நாடு தொழில் முனைற்ற நிறுவனம்

19-A உருக்குமணி கிடைசுமிபதி சாலை, எழும்பூர், சென்னை - 600 008

சுற்றுச்சூழல் இசைவாணை

சிப்காட் தொழிற்புங்கா

தேர்வாய் கண்டினை, திருவள்ளூர் மாவட்டம்

மத்திய சுற்றுச்சூழல் மற்றும் வனத்துறை அமைச்சகம், கடிதம் எண். 21-41/2009-IA.III தேதி 09.08.2010 வழியாக திருவள்ளூர் மாவட்டம் தேர்வாய் கண்டினை கையில் உத்தேசிக்கப்பட்டுள்ள தொழிற்புங்காவிற்சு சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது. உவ்விசைவாணையின் முழு விவரத்தை சிப்காட் இணையதளமான www.sipcot.com மற்றும் மத்திய சுற்றுச்சூழல் மற்றும் வனத்துறை அமைச்சகத்தின் இணையதளமான www.envfor.nic.in ஆகியவற்றில் காணலாம். மேலும் இசைவாணையின் நகலினை தமிழ்நாடு மாசு கட்டுப்பாட்டு வாரியத் தலைமை அலுவலகத்தில் பெறலாம்.

முதல்கமை செயலர் /

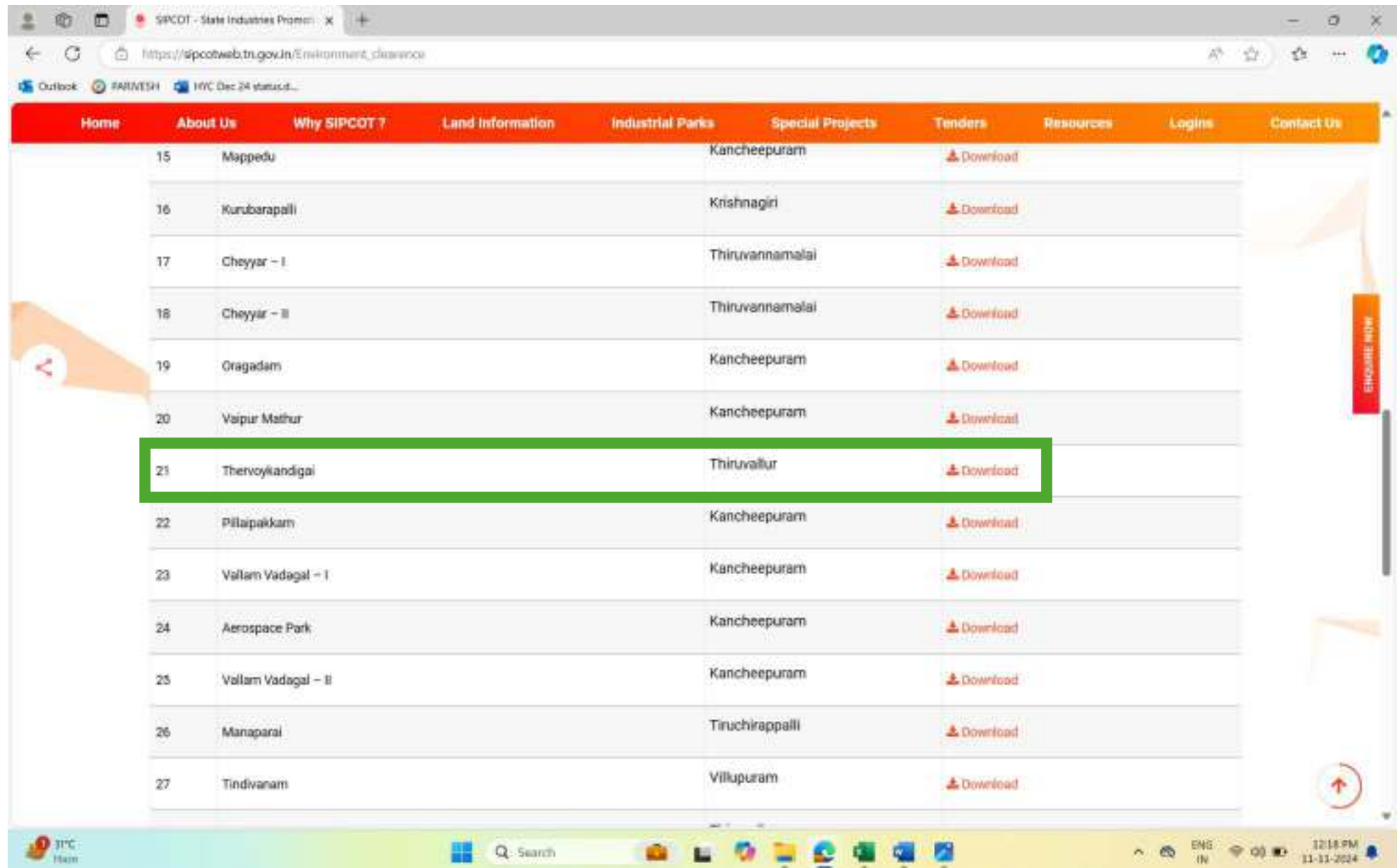
தலைவர் மற்றும் மேலாண்மை கியக்குனர், சிப்காட்,

Visit us at : www.tn.gov.in

19-A, உருக்குமணி கிடைசுமிபதி சாலை,

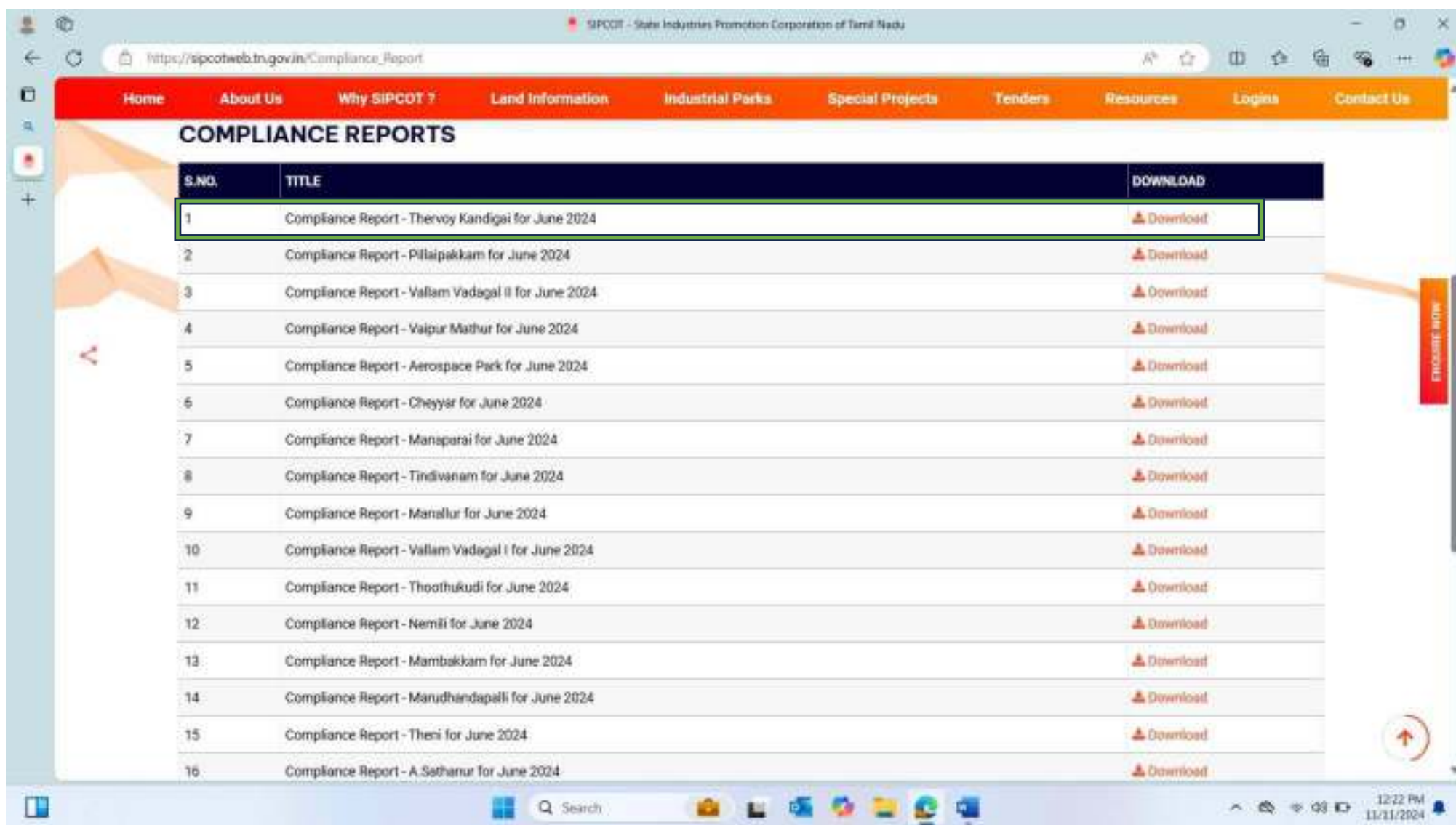
ம.தொ.இ./1082/வரைகலை/2010

சென்னை-600 008.



The screenshot shows a web browser displaying the SIPCOT website. The page has a navigation menu at the top with links: Home, About Us, Why SIPCOT?, Land Information, Industrial Parks, Special Projects, Tenders, Resources, Logins, and Contact Us. Below the menu is a table listing industrial parks. The row for 'Thervoykandigai' is highlighted with a green border. The table has columns for an ID, the park name, the location, and a 'Download' link. The system tray at the bottom shows the date as 11-11-2024 and the time as 12:18 PM.

15	Mappedu	Kancheepuram	Download
16	Kurubarapalli	Krishnagiri	Download
17	Cheyyar - I	Thiruvannamalai	Download
18	Cheyyar - II	Thiruvannamalai	Download
19	Oragadam	Kancheepuram	Download
20	Vaipur Mathur	Kancheepuram	Download
21	Thervoykandigai	Thiruvallur	Download
22	Pillapakkam	Kancheepuram	Download
23	Vallam Vadagal - I	Kancheepuram	Download
24	Aerospace Park	Kancheepuram	Download
25	Vallam Vadagal - II	Kancheepuram	Download
26	Manapara	Tiruchirappalli	Download
27	Tindivanam	Vilupuram	Download



The screenshot displays the SIPCOT website's 'COMPLIANCE REPORTS' page. The page features a navigation menu at the top and a table of reports. The first report, 'Compliance Report - Thervoy Kandigai for June 2024', is highlighted with a green border. A red 'Encountered error' message is visible on the right side of the page.

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



SIPCOT

I/173596/2024

Date: 26-09-2024

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


Sir,

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

Ref: MoEF&CC EC Letter No. 21-41/2009-IA.III dated 09.08.2010.

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 Thervoykandigai
Village, Thiruvallur District, Tamil Nadu for financial year ending 31st March 2024.

Yours faithfully,


ASSISTANT GENERAL MANAGER (P-VI)

Encl: As above.



State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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

1/10/24

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12	Compliance Report - Madhavaram for June 2024	Download
13	Compliance Report - Mambakkam for June 2024	Download
14	Compliance Report - Marudhandapalli for June 2024	Download
15	Compliance Report - Theri for June 2024	Download
16	Compliance Report - A.Sathanur for June 2024	Download
17	Compliance Report - Nedumpuli for June 2024	Download
18	Compliance Report - Virudhuragar for June 2024	Download
19	Environmental Statement for the Financial Year - 2023 - 2024	Download



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044-45261777

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PROJECT SITE



KARADIPUDUR



CHINNAPULIYUR



THERVOY VILLAGE



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PROJECT AREA



KARADIPUDUR



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LAKE NEAR PALAVAKKAM**



LAKE NEAR THERVOY KANDIGAI



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