



SIPCOT

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

Date: 30.11.2023

To,
The Director,
The Ministry of Environment and Forest & Climate Change,
Integrated Regional Office,
1st Floor, Additional Office Block for GPOA,
Shastri Bhawan, Haddows Road,
Nungambakkam, Chennai – 600 006

Sir/Madam,

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

Ref: EC Obtained Vide File No 21-41/2009-IA.III. Dated: 09.08.2010

We hereby submit the Half Yearly Compliance Report for the Development of Industrial Park at Thervoy Kandigai, Thiruvallur District, Tamil Nadu for December 2023 (i.e., for the period of April 2023 to September 2023) along with the supporting documents for your perusal.

Thanking you

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

Copy to:

1. The Director,
CPCB Zonal Office,
77-A, South Avenue Road,
Ambattur Industrial Estate,
Ambattur Taluk, Thiruvallur District,
Chennai - 600 058.
2. The Chairman,
Tamil Nadu Pollution Control Board,
No-76, Mount Road, Guindy,
Chennai-600 032.

P.T.O.

State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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



SIPCOT

/2/

3. The Project Officer
SIPCOT Industrial Park,
Thervoy Kandigai.

/Forwarded by Order/

H. Prathap
GENERAL MANAGER (P-II)

gdh.
30/1/23

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

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

HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of April 2023 to September 2023

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 Lakshmi pathy Road,
Egmore, Chennai-600008.**

Prepared by



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

November 2023

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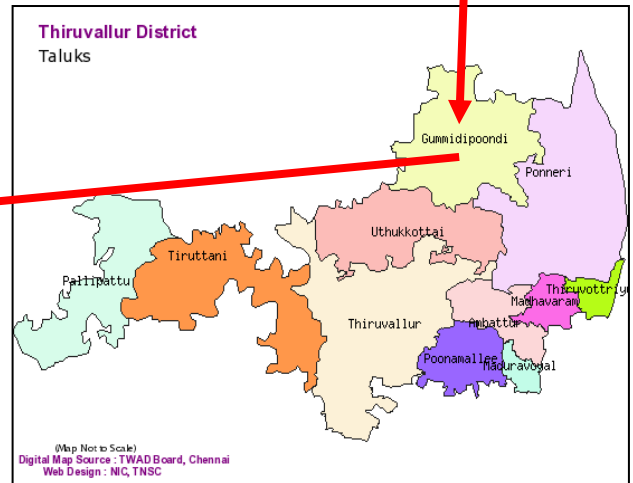
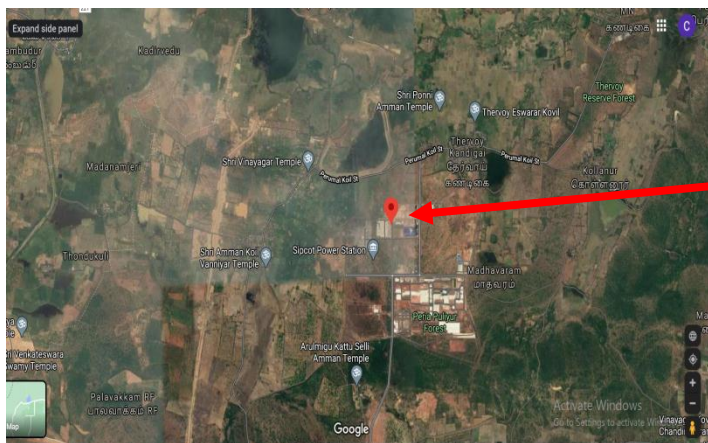
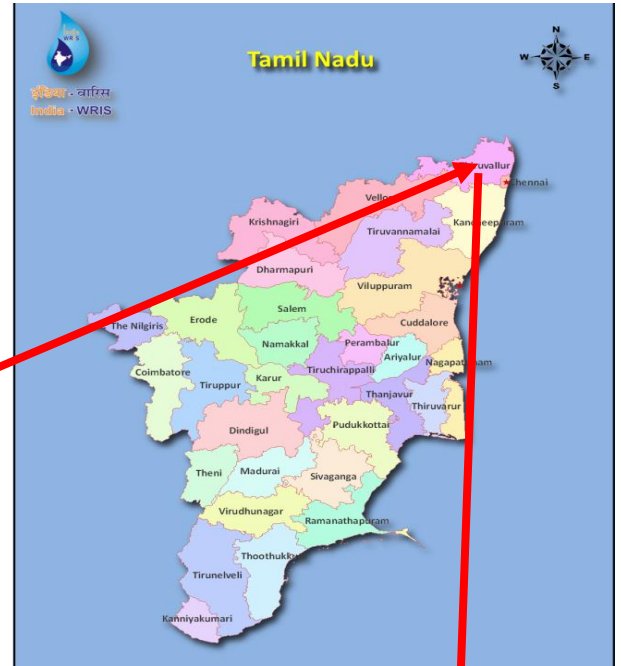
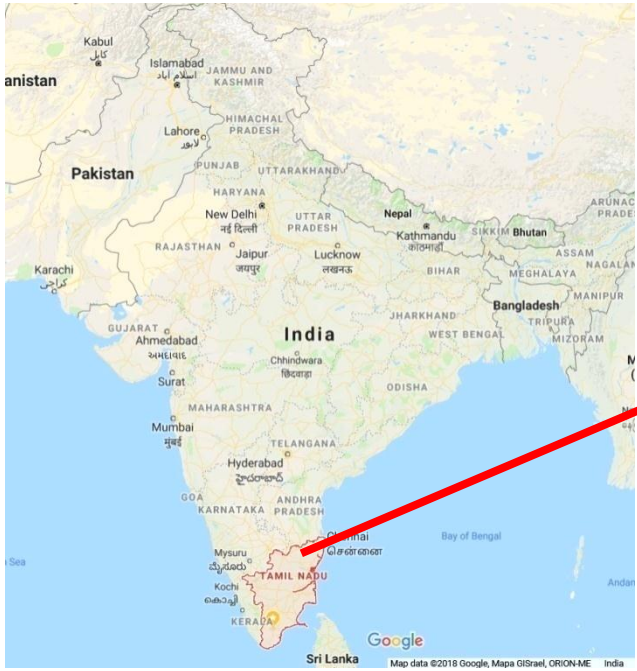
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1. PROJECT DETAILS

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)
Total Extent	456.27 Hectares
Water Requirements	4.5 MLD Source: CMWSSB (Enclosed as Annexure 2)
Project Cost	Rs.240 Crore

1.0 LOCATION MAP



2.0 SITE PHOTOGRAPHS

SIPCOT PROJECT OFFICE



Photographs of Industries within the IP



3.0 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 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.	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 Annexure - 5 .

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 is 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
1.	The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.	Condition noted.
2.	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.
3.	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.
4.	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. There is no change in scope of the project.
5.	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.
6.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department,	All member units are instructed to obtain all necessary statutory clearances and approvals.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	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.	
7.	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.
8.	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 .

S.NO	CONDITIONS	STATUS OF COMPLIANCE
9.	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.
10.	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.
11.	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 has also been uploaded on website and enclosed as Annexure -12 .
12.	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 .

S.NO	CONDITIONS	STATUS OF COMPLIANCE
13.	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.

5.0 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 for the period of April 2023 to September 2023.

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 2023 to September 2023 is enclosed as **Annexure - 7.**

5.2 Ambient Noise level monitoring

Ambient noise level monitoring reports recorded during the period of April 2023 to September 2023 is enclosed in **Annexure -7.**

5.3 Soil quality monitoring

The Soil samples were collected and analysed for nutrients and heavy metals. The test report of soil samples collected and analysed during April 2023 to September 2023 is enclosed as **Annexure -7.**

5.4 Ground water quality monitoring

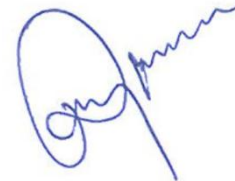
Ground water was tested for various water quality parameters during April 2023 to September 2023. The test report of bore well water collected and analyzed is enclosed as **Annexure-7.**

5.5 Surface water quality monitoring

Surface water is collected for various water quality parameters during April 2023 to September 2023. 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 2023 to September 2023
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.



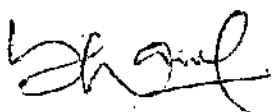
The TOR for the project was issued on 14.12.2009 and the public hearing was conducted on 30.04.2010.

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:

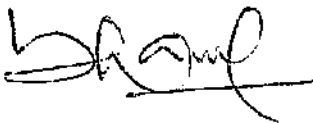
PART A - SPECIFIC CONDITIONS

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:

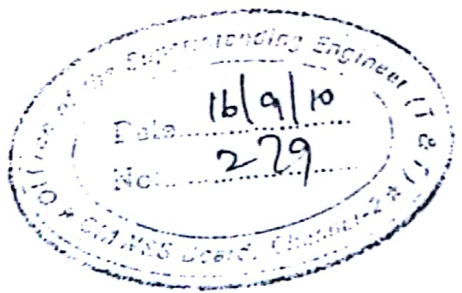
- (i) to take up the work of laying pipeline and constructing booster stations for supplying 14 MLD of water to SIPCOT Industrial Park, Thervaikandiagai at a tentative cost of Rs.48.80 crores and an annual Operation & Maintenance Cost of Rs.0.70 crore. The expenditure towards this work to be borne by 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.

/l.c.f.b.o./

[Signature]
14.09.10
SECRETARY.

[Signature]
14/09/10



EE/R.011
to file + put up a
draft cr. 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

Annexure-2/3
29/77

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, Gol, 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

1

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
4. Technical Section

//Forwarded by order//

For Member Secretary.

Vrf 28411



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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 its 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



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//

[Handwritten Signature]
For Member Secretary.



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

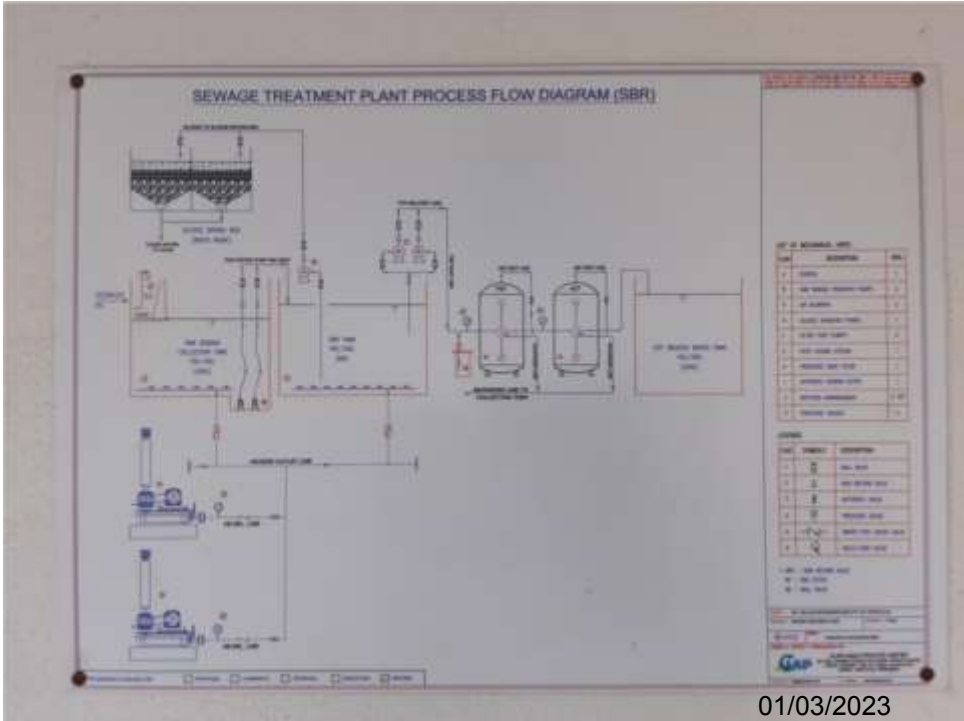
12. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. Consent to operate will not be issued unless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



Hubert Enviro Care Systems (P) Ltd.

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

Annexure - 7
Laboratory Services Division
(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/AA/09/260823
Report Date : 31/08/2023

Sample Description : Ambient Air Quality
Sampling Location : Project Area
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On: 31/08/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	11.49	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	23.58	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	54.26	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	26.37	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	12.29	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	7.83	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report



Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy KandigaiReport No. : HECSL/AA/010/260823
Report Date : 31/08/2023Sample Description : Ambient Air Quality
Sampling Location : Karadipudur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On: 31/08/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	8.35	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	19.68	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	40.29	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	21.35	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 10)	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	5.22	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report



M. G. P.
Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy KandigaiReport No. : HECSL/AA/011/260823
Report Date : 31/08/2023Sample Description : Ambient Air Quality
Sampling Location : Kollanur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On :31/08/2023


S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	10.66	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	20.39	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	44.48	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	22.16	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	10.68	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	6.25	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report




Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy KandigaiReport No. : HECSL/AA/012/260823
Report Date : 31/08/2023Sample Description : Ambient Air Quality
Sampling Location : Chinnapuliur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On: 31/08/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m ³	8.83	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m ³	20.18	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m ³	43.65	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m ³	21.39	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m ³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m ³	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m ³	BLQ(LOQ 10)	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m ³	6.22	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m ³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m ³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m ³	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m ³	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m ³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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



(Signature)
Authorized Signatory
SIVAPRAKASH
Lab Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy KandigaiReport No. : HECSL/AA/013/260823
Report Date : 31/08/2023Sample Description : Ambient Air Quality
Sampling Location : Thervoy Village
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On: 31/08/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	9.25	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	18.66	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	39.85	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	20.68	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 10)	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	5.39	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report



MGR
Authorized Signatory
SIVAPRAMOOTHAM
Lab Manager

TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy KandigaiReport No. : HECSL/WT/006/260823
Report Date : 31/08/2023Sample Description : WATER
Sample Mark Sample : Project Area - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.54	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO3	mg/l	70.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	234.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	2.9	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO3	mg/l	90.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	23.65	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	22.27	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	7.53	IS 3025 (Part - 46):1994	30	100
10	Total Dissolved Solids	mg/l	158.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO4	mg/l	15.36	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	BLQ(LOQ:0.2)	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO3	mg/l	6.39	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.37	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation



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 Lab Manager

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Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

FSSAI Notified Laboratory

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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Sample Description : WATER
Sample Mark Sample : Project Area - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Report No. : HECSL/WT/006/260823

Report Date : 31/08/2023

Completed On: 31/08/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
24	Sodium as Na	mg/l	12.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	2.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	0.073	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	6.0	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.3	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	0.049	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	85.4	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	21.39	IS 3025(Part-45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	0.55	IS 11624 - 1986	NA	NA

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

End of Report



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Laboratory Services Division

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

TEST REPORT

Page : 1 of 2


Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Sample Description : WATER
Sample Mark Sample : Karadipudur - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Report No. : HECSL/WT/007/260823
Report Date : 31/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	6.73	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	90.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	551.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	0.5	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	162.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	40.42	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	71.76	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	14.82	IS 3025 (Part - 46) 1994	30	100
10	Total Dissolved Solids	mg/l	309.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	25.69	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.42	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	35.87	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.061	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation




Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

HECS/Q/FMT/50

TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Sample Description : WATER
Sample Mark Sample : Karadipudur - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Report No. : HECSL/WT/007/260823
Report Date : 31/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
24	Sodium as Na	mg/l	35.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	3.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	0.061	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	2.0	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.9	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	85.4	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	31.32	IS 3025(Part-45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.0)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS.11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.19	IS 11624 - 1986	NA	NA

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

End of Report



(Signature)
Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kaadigai
Sample Description : WATER
Sample Mark Sample : Thervoy Village - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Report No. : HECSL/WT/008/260823
Report Date : 31/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.58	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	100.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	514.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	0.6	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	143.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	43.29	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	71.26	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	8.51	IS 3025 (Part - 46):1994	30	100
10	Total Dissolved Solids	mg/l	288.0	IS 3025(Part-16):1984	500	2000
11	Sulphate as SO ₄	mg/l	32.51	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.48	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	3.18	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.037	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation




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Laboratory Services Division

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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai
Sample Description : WATER
Sample Mark Sample : Thervoy Village - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Report No. : HECSL/WT/008/260823
Report Date : 31/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
24	Sodium as Na	mg/l	37.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	5.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	0.083	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	2.0	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.9	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	0.058	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	122	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	34.90	IS 3025(Part -45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.34	IS 11624 - 1986	NA	NA

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



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TEST REPORT

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Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/WT/009/260823
Report Date : 31/08/2023

Sample Description : WATER
Sample Mark : Lake Near Palavakkam-Surface Water
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On: 31/08/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
1	pH (at 25 °C)	-	8.23	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	25.0	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	213.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	6.5	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	42.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	11.22	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	30.19	4500 Cl --- B APHA 23rd Edn: 2017	250
9	Magnesium as Mg	mg/l	3.65	IS 3025 (Part - 46) 1994	NA
10	Total Dissolved Solids	mg/l	120.0	IS 3025(Part -16):1984	500
11	Sulphate as SO ₄	mg/l	8.74	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	BLQ(LOQ:0.2)	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	5.72	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.54	IS 3025 (Part - 53):2003	0.3
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	NA
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.5
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.001
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.1
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001



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1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/WT/009/260823
Report Date : 31/08/2023

Sample Description : WATER
Sample Mark : Lake Near Palavakkam-Surface Water
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On :31/08/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296Class-A)
24	Sodium as Na	mg/l	15.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	2.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO4	mg/l	0.078	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	14.0	IS 3025 (Part - 17):1984	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	NA
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	0.05
31	BOD,3 days @27°C as O2	mg/l	4.0	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as	mg/l	28.0	IS 3025 (Part - 58):2006	NA
33	Dissolved oxygen	mg/l	6.3	IS 3025 (Part - 38):1989	6
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA
36	Bi Carbonate	mg/l	29.0	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	NA
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	NA
39	Percent Sodium as Na	%	41.58	IS 3025(Part -45) 1993	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	1
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA
44	Sodium Absorption Ratio	-	0.99	IS 11624 - 1986	NA

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

End of Report



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TEST REPORT

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Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai


Report No. : HECSL/WT/010/260823
Report Date : 31/08/2023

Sample Description : WATER
Sample Mark : Lake Near Thervoy Kandigai - Surface Water
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 - 26/08/2023
Analysis Commenced On : 26/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
1	pH (at 25 °C)	-	7.46	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	30	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	222.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	10.4	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	54.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	12.83	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	23.75	4500 Cl --- B APHA 23rd Edn: 2017	250
9	Magnesium as Mg	mg/l	5.35	IS 3025 (Part - 46) 1994	NA
10	Total Dissolved Solids	mg/l	124.0	IS 3025(Part -16):1984	500
11	Sulphate as SO ₄	mg/l	16.28	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	BLQ(LOQ:0.2)	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	6.23	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.69	IS 3025 (Part - 53):2003	0.3
15	Boron as B #	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	NA
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.5
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.001
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.1
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001




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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/WT/010/260823
Report Date : 31/08/2023

Sample Description : WATER
Sample Mark : Lake Near Thervoy Kandigai - Surface Water
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On: 31/08/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
24	Sodium as Na	mg/l	12.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	2.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO4	mg/l	0.073	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	24.0	IS 3025 (Part - 17):1984	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	NA
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	NA
31	BOD,3 days @27°C as O2	mg/l	4.0	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as	mg/l	24.0	IS 3025 (Part - 58):2006	NA
33	Dissolved oxygen	mg/l	5.8	IS 3025 (Part - 38):1989	6
34	Total Phosphorous as P	mg/l	0.062	IS 3025 (Pt 31) : 1988	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA
36	Bi Carbonate	mg/l	36.6	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	NA
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	NA
39	Percent Sodium as Na	%	31.43	IS 3025(Part -45) 1993	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	1
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA
44	Sodium Absorption Ratio	-	0.71	IS 11624 - 1986	NA

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

End of Report



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TEST REPORT

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Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/SD/1/260823
Report Date : 31/08/2023

Sample Description : SOIL
Sample Mark : Project Area
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023


Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.47	ASTM D421/422
3	Soil Texture i)Sand	%	26.12	ASTM D421/422
4	Soil Texture ii)Silt	%	43.22	ASTM D421/422
5	Soil Texture iii)Clay	%	30.66	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.33	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	166.31	IS:14767:2000
8	Cation exchange capacity	meq/100g	3.12	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.77	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	121.45	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	0.82	IS 10158:1982
12	Potassium	mg/kg	33.12	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	7.21	US EPA 200.8 Method
16	Iron	mg/kg	5.22	US EPA 200.8 Method
17	Manganese	mg/kg	143.54	US EPA 200.8 Method
18	Zinc	mg/kg	23.21	US EPA 200.8 Method
19	Colour	-	Red	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	6.21	ASTM D6391-11
21	Bulk density	gm/cc	4.43	ASTM D6683-14
22	Moisture Content	%	11.76	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	43.22	IS 14765
24	Calcium as Ca	mg/kg	123.22	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	53.12	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	27.44	US EPA 200.8 Method

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

End of Report




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Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/SD/2/260823
Report Date : 31/08/2023

Sample Description : SOIL
Sample Mark : Karadipudur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.58	ASTM D421/422
3	Soil Texture i)Sand	%	27.24	ASTM D421/422
4	Soil Texture ii)Silt	%	34.11	ASTM D421/422
5	Soil Texture iii)Clay	%	38.65	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.47	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	643.31	IS:14767:2000
8	Cation exchange capacity	meq/100g	3.88	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.71	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	432.11	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	0.85	IS 10158:1982
12	Potassium	mg/kg	42.12	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	6.32	US EPA 200.8 Method
16	Iron	mg/kg	BLQ(LOQ 0.02)	US EPA 200.8 Method
17	Manganese	mg/kg	132.12	US EPA 200.8 Method
18	Zinc	mg/kg	32.12	US EPA 200.8 Method
19	Colour	-	Brown	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	18.12	ASTM D6391-11
21	Bulk density	gm/cc	5.12	ASTM D6683-14
22	Moisture Content	%	9.24	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	26.12	IS 14765
24	Calcium as Ca	mg/kg	126.32	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	101.32	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	51.23	US EPA 200.8 Method

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

End of Report




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TEST REPORT

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Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/SD/3/260823
Report Date : 31/08/2023

Sample Description : SOIL
Sample Mark : Kollanur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.67	ASTM D421/422
3	Soil Texture i)Sand	%	27.71	ASTM D421/422
4	Soil Texture ii)Silt	%	42.36	ASTM D421/422
5	Soil Texture iii)Clay	%	29.93	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.85	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	112.14	IS:14767:2000
8	Cation exchange capacity	meq/100g	8.21	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.76	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	93.32	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	4.21	IS 10158:1982
12	Potassium	mg/kg	37.22	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	4.32	US EPA 200.8 Method
16	Iron	mg/kg	BLQ(LOQ 0.02)	US EPA 200.8 Method
17	Manganese	mg/kg	71.88	US EPA 200.8 Method
18	Zinc	mg/kg	23.63	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	5.76	ASTM D6391-11
21	Bulk density	gm/cc	3.16	ASTM D6683-14
22	Moisture Content	%	6.31	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	28.65	IS 14765
24	Calcium as Ca	mg/kg	143.12	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	71.23	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	29.32	US EPA 200.8 Method

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

End of Report




Authorized Signatory
SIVAPRAKASAM.
Lab Manager

Hubert Enviro Care Systems (P) Ltd.

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

Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/SD/4/260823
Report Date : 31/08/2023

Sample Description : SOIL
Sample Mark : Chinnapuliur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.57	ASTM D421/422
3	Soil Texture i)Sand	%	33.12	ASTM D421/422
4	Soil Texture ii)Silt	%	36.43	ASTM D421/422
5	Soil-Texture iii)Clay	%	30.45	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.35	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	376.65	IS:14767:2000
8	Cation exchange capacity	meq/100g	4.32	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.43	IS:2720 (Part-22: 1972)
10	Nitrogen	mg/kg	110.76	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	8.32	IS 10158:1982
12	Potassium	mg/kg	41.66	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	7.12	US EPA 200.8 Method
16	Iron	mg/kg	BLQ(LOQ 0.02)	US EPA 200.8 Method
17	Manganese	mg/kg	732.11	US EPA 200.8 Method
18	Zinc	mg/kg	39.61	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	6.43	ASTM D6391-11
21	Bulk density	gm/cc	4.23	ASTM D6683-14
22	Moisture Content	%	7.38	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	31.98	IS 14765
24	Calcium as Ca	mg/kg	132.77	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	158.11	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	63.71	US EPA 200.8 Method

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

End of Report



Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy KandigaiReport No. : HECSL/SD/5/260823
Report Date : 31/08/2023Sample Description : SOIL
Sample Mark : Thervoy Village
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 25/08/2023 -26/08/2023
Analysis Commenced On : 26/08/2023

Completed On : 31/08/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Silty Clay	ASTM D421/422
2	Organic Carbon		0.52	ASTM D421/422
3	Soil Texture i)Sand	%	14.41	ASTM D421/422
4	Soil Texture ii)Silt	%	44.22	ASTM D421/422
5	Soil Texture iii)Clay	%	41.37	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.86	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	312.43	IS:14767:2000
8	Cation exchange capacity	meq/100g	7.20	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.65	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	143.21	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	4.33	IS 10158:1982
12	Potassium	mg/kg	11.67	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	7.71	US EPA 200.8 Method
16	Iron	mg/kg	BLQ(LOQ 0.02)	US EPA 200.8 Method
17	Manganese	mg/kg	131.32	US EPA 200.8 Method
18	Zinc	mg/kg	32.76	US EPA 200.8 Method
19	Colour	-	Red	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	7.21	ASTM D6391-11
21	Bulk density	gm/cc	5.32	ASTM D6683-14
22	Moisture Content	%	3.22	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	38.18	IS 14765
24	Calcium as Ca	mg/kg	118.32	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	72.12	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	26.77	US EPA 200.8 Method

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

End of Report



Authorized Signatory
SIVAPRAKASAM. M.
Lab Manager

Hubert Enviro Care Systems (P) Ltd.

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Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Thervoy Kandigai

Report No. : HECSL/AN/001-005/260823
Report Date : 31/08/2023

Sample Description : Noise Monitoring
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 24/08/2023 -26/08/2023

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	61.7	50.2
2	Karadipudur	49.2	45.1
3	Kollanur	48.2	45.2
4	Chinnapuliyur	58.4	49.5
5	Thervoy Village	55.3	49.3

Noise Standards - CPCB:

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

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

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

End of Report




Authorized Signatory
SIVAPRAKASAM. IV
Lab Manager

Green Belt Photograph





Rainwater Harvesting Photographs



Weep Hole Photograph



Storm water drainage Photograph



Parking and LED Light Photograph





THE HINDU - Dated: 25/08/2010



**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

சிறப்புத் தகவல் - திகதி: 25/08/2010



தமிழ்நாடு தொழில் முன்னேற்ற நிறுவனம்

19-ஆம் உருக்குமணி இலட்சுமிபதி சாலை, எழும்பூர், சென்னை - 6

சுற்றுச்சூழல் இசைவாகை

சிப்காட் தொழிற்புங்கா

தேர்வாய் கண்டிசை, திருவள்ளூர் மாவட்டம்

மத்திய சுற்றுச்சூழல் மற்றும் வனத்துறை அமைச்சகம், கடிதம் எண். 21-41/2009-IA.III தேதி 09.08.2010 வழியாக திருவள்ளூர் மாவட்டம் தேர்வாய் கண்டிசையில் உத்தேசிக்கப்பட்டுள்ள தொழிற்புங்காவிற்கு சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.)வ்விசைவாணையின் 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.

முதன்மை செயலர் /

தலைவர் மற்றும் மேலாண்மை இயக்குனர், சிப்காட்,

Visit us at : www.tn.gov.in

19-A, உருக்குமணி இலட்சுமிபதி சாலை,

ம.தொ.இ./1082/வரைகலை/2010

சென்னை-600 008.

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

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

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

ENVIRONMENT MANAGEMENT

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

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



SIPCOT

P-III/EC/1/27207/2023/TK

Date: 25.09.2023

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

/RPAD/

Sir,

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

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/

ASSISTANT GENERAL MANAGER (P-III)



State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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

SIPCOT – THERVOI KANDIGAI MONITORING PHOTOS

AMBIENT AIR QUALITY MONITORING PHOTOS:



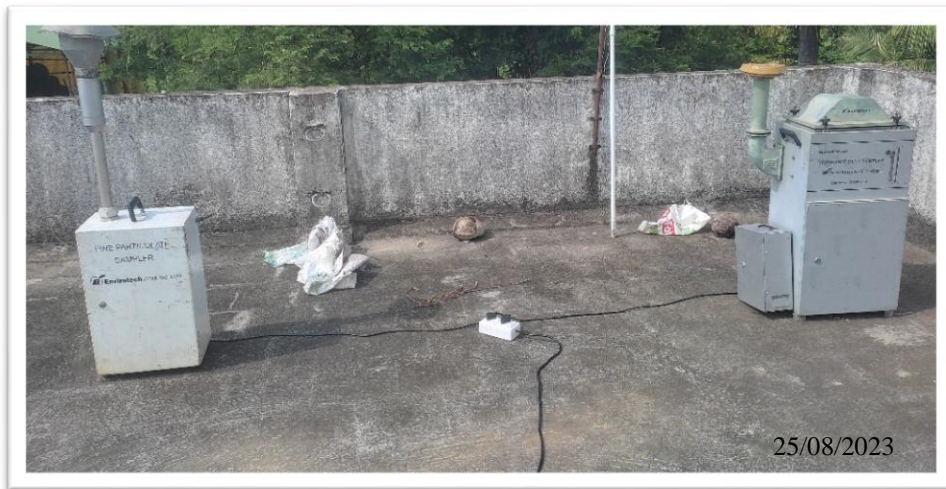
Project site



Karadipudur



Chinnapuliur



Thervoy village



Kollanur

Ground water sampling photos



Project area



Karadipudur

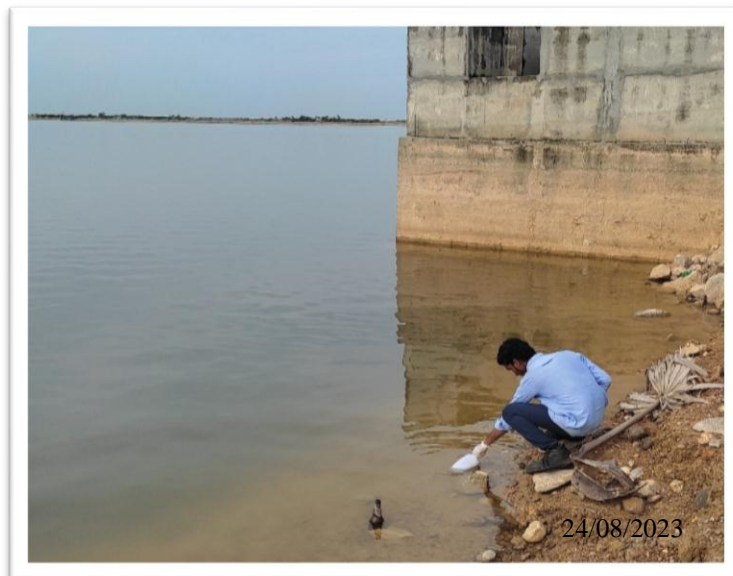


Thervoy Village

Surface water sampling photograph



Lake near Palavakkam



Lake near Thervoy kandigai

Soil sampling photograph



Project area



Karadiputhur



Chinnapuliur



Thervoy Village



Kollanur

Noise monitoring photograph



Project area



Karadipudur



Thervoy village



Chinnapuliur



Kollanur