



SIPCOT

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

Date: 30.11.2023

To,
The Member Secretary,
State Level Environment Impact Assessment Authority,
3rd Floor, Panagal Maligai,
No.1 Jeenis Road, Saidapet,
Chennai-600015

Sir/Madam,

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

Ref: EC vide Letter No. SEIAA-TN/F.6496/EC/8(b)/680/2019 dated: 27.11.2019

We hereby submit the Half Yearly Compliance Report for the Development of Industrial Park at Kannudaiyanpatty, K. Periyapatty (N) and Chattirapatty Villages, Manaparai Taluk, Tiruchirapalli District, Tamil Nadu for December 2023 (i.e., for the period of April 2023 to September 2023) along with the supporting documents for your perusal.

Thanking you

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above

Copy to:

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

P.T.O.

State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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



SIPCOT

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

/Forwarded by Order/


GENERAL MANAGER (P-I)

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

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**HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE
REPORT**

For the period of April 2023 - September 2023

For

“Establishment of Industrial Park”

At

**Kannudaiyanpatty, K. Periyapatty (N) and Chattirapatty
Villages, Manaparai Taluk, Tiruchirapalli District, Tamil Nadu.**

**EC OBTAINED Vide Letter No. SEIAA-TN/F.6496/EC/8(b)/680/2019 dated:
27.11.2019**

Submitted by



**M/S. STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LTD
19/A, Lakshmi pathy Road,
Egmore, Chennai - 600008.**

Prepared by



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

November 2023

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LIST OF ANNEXURE

S. No	List of Contents
Annexure 1	Copy of Environmental Clearance
Annexure 2	Acknowledgement of Form V submission
Annexure 3	Consent To Establish from TNPCB
Annexure 4	Environment Management Cell Organization details
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Annexure 9	Environmental Monitoring Photos

1.0 PROJECT DETAILS

Name of the Project	SIPCOT Industrial Park, Manaparai
Name of the Proponent	State Industries Promotion Corporation of Tamil Nadu Ltd.
EC No.	SEIAA-TN/F.6496/EC/8(b)/680/2019 dated 27.11.2019 (Enclosed as Annexure 1)
Total Extent	436.05 Hectares
Water Requirement:	
a) Total Water Requirement	6MLD
b) Source	Sourced from Cauvery river basin
Project Cost	Rs.500 Crores

2.0 LOCATION MAP



3.0 Site Photographs





4.0 SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

Part - A

Common Conditions Applicable for Pre-construction, Construction and Operational Phase

S.NO	CONDITION	STATUS OF COMPLIANCE
1.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, If preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	No appeal lies against this Environmental Clearance.
2	The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.	Construction shall be carried out only as per the layout approval.
3	The Environmental safeguards contained in the application of the proponent/mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.	SIPCOT shall comply with all the applicable conditions issued in the EC.
4	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the	All the member units will be instructed to obtain all necessary statutory clearances and approvals.

	project shall be obtained by project proponent from the concerned competent authorities.	
5	The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.	Condition noted.
6.	A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.	Condition is being complied.
7.	The environmental statement for each financial year ending 31 st 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. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai By e-mail.	Condition is being complied. Proof of dispatch of Form V to TNPCB and the screenshot of uploading the environmental statement in SPCOT website is enclosed as Annexure – 2 and Annexure – 8 b respectively.
8.	The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Condition noted.
9.	"Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be	Consent to Establishment has been obtained from TNPCB. Copy of the same is enclosed as Annexure-3 .

	submitted to the SEIAA, Tamil Nadu.	
10.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	Condition Noted. There is no change in scope of the project.
11.	The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation& Development Rules, 2010 framed under MMDR Act 1957,National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India / Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green tribunal relating to the subject matter.	Condition Noted.
12.	The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.	Condition Noted.
13.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (protection) Act, 1986.	SIPCOT shall comply with all the applicable conditions issued in the EC.
14.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai,	Condition is being complied. The compliance report including monitoring data has been uploaded on our website and screenshot is enclosed as Annexure – 8 B .

	the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.	
15.	The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of his environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.	SIPCOT shall comply with all the applicable conditions issued in the EC.
16.	The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.	Condition Noted. All the member industries will be instructed to obtain necessary approvals / clearances.
17.	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.	Condition Noted.
18.	The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain, other statutory and administrative clearances from other statutory and administrative authorities.	Condition Noted. All the member industries will be instructed to obtain necessary approvals / clearances.
19.	Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree	Condition Noted.

	that is cut) should be done with the obligation to continue maintenance.	
20.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.	Condition Complied. Separate environmental management cell has been assigned and will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as Annexure - 4 .
21.	The EMP cost of Rs.1.5 crores shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Condition Noted.
22.	The project activity should not cause any disturbance & deterioration of the local bio diversity.	Condition will be complied.
23.	The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.	Condition will be complied. Surface water quality monitoring report is enclosed as Annexure - 5 .
24.	All the assessed flora & fauna should be conserved and protected.	Condition noted.
25.	The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No. 84 Environmental and forest (EC 2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.

26.	As per MoEF & CC, Gol, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.	Not applicable.
27.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.	Condition will be complied.
28.	The safety measures proposed in the report should be strictly followed.	Condition will be complied. All the member units will be instructed to comply with.
29.	The Developer shall ensure that no allotment letter / sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.	Condition will be complied.
30.	The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for greenbelt development and to install RWH structures.	Condition will be complied. All the member units will be instructed to comply with.
31.	The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards	Condition will be complied. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards.

	prescribed by the TNPCB.	
32.	The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and throw away plastic.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
33.	The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.	Condition complied. Land use classification certificate obtained from DTCP.
34.	The proponent shall obtain the necessary permission/ NOC of water supply from the TWAD Board/competent Authority.	Condition will be complied.
35.	The CER fund shall be utilized as per the office memorandum of MoEF&CC dated 01.05.2018 before obtaining CTO from TNPCB.	Condition will be complied.
36.	The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.	All the member units will be instructed to obtain all necessary statutory clearances and approvals.
37.	The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.	Condition will be complied. All the member units will be instructed to comply with.
38.	The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.	Condition will be complied.
39.	Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board qualification for the operation and maintenance of STP.	STP is not proposed by SIPCOT. All the member units will be instructed to follow all applicable rules and guidelines.
40.	It is the sole responsibility of the proponent that the treated sewage disposed for	STP is not proposed by SIPCOT. All the member industries will be

	greenbelt development /avenue plantation should not pollute the soil/ groundwater/ adjacent canals/ lakes/ ponds, etc.	mandated to treat the domestic sewage and reuse for greenbelt development. All the member units will be instructed to follow all applicable rules and guidelines.
41.	The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade Effluents.	Condition will be complied. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards.
42.	The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rule 2016 as amended and E-Waste Management Rules, 2016.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
43.	There shall be no discharge of effluent outside the Industrial Park at any time.	All the member units will be instructed to comply with. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system.
44.	The Developer shall mandate the member units of the Industrial Park to install adequate APC measures / Acoustic to achieve air emissions standards within permissible limits prescribed by the CPCB.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.

Part – B

Specific Conditions - Pre construction phase

S.NO	CONDITION	STATUS OF COMPLIANCE
1.	The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the	Condition complied. Newspaper advertisement copy is enclosed as Annexure - 6.

	issue of clearance. The press releases also mention that copy of the clearance letter is available with the state pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA- TN.	
2.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation	Condition accepted and noted. There is no change in scope of the project.
3.	A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.	Condition complied. Acknowledgement copy of the clearance letter sent to local body is attached as Annexure-7 . The clearance letter has also uploaded on our website and screenshot is enclosed as Annexure - 8 A .
4.	The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake adequacy of fire fighting equipments, etc as per National Building Code including protection measures from lightning etc before commencement of the work.	Condition will be complied. Individual member units will be instructed to obtain all necessary statutory clearances and approvals.
5.	All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained through out the construction phase.	Condition will be complied. All the member units will be instructed to comply with.
6.	Design of building should be in conformity with the Seismic Zone Classifications.	All the member units will be instructed to follow applicable rules and guidelines.
7.	The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local	Construction will be carried out as per the DTCP approved layout.

	administration.	
8.	No construction activity of any kind shall be taken up in the OSR area.	Condition will be complied. No construction activity will be taken in the OSR area.
9	Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.	Condition will be complied. Individual industries will be mandated to treat the Sewage as per the norms.
10.	The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.	Not applicable. The project site is away from the CRZ.
11.	The Project Proponent shall provide car parking exclusively for the visiting guest In the proposed residential apartments as per CMDA norms.	Not Applicable. The proposed project is an Industrial Park.
12.	The project proponent shall ensure the level of basement shall be above maximum flood level.	Condition will be complied. All the member units will be instructed to comply with.
13.	The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details <ol style="list-style-type: none"> 1. Location of STP, compost system, underground sewer line 2. Pipe Line conveying the treated effluent for green belt development 3. Pipe Line conveying the treated effluent for toilet flushing 4. Water supply pipeline 5. Gas supply pipe line, if proposed 6. Telephone cable 7. Power cable 8. Strom water drains, and 9. Rain water harvesting system, etc., and it shall be made available to the owners. 	Conditions applicable will be complied.

14.	A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.	Condition will be complied. All the member units will be instructed to comply with.
15.	The present land use surrounding the project site shall not be disturbed at any point of time.	Condition will be complied.
16.	The green belt area shall be planted With indigenous native trees.	Greenbelt will be developed with indigenous native species.
17.	Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be Replanted.	Condition noted.
18.	During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.	Condition will be complied.
19.	The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.	Condition noted. All the member units will be instructed to follow all applicable rules and guidelines.
20.	There should be Fire fighting plan and all required safety plan.	Condition will be complied. All the member units will be instructed to comply with.
21.	Regular fire drills should be held to create awareness among owners/ residents.	All the member units will be instructed to comply with.

Part C - Specific Condition Construction Phase

S.NO	CONDITION	STATUS OF COMPLIANCE
1.	Construction Schedule:	
	i) The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.	Condition noted.
2.	Labour Welfare:	

S.NO	CONDITION	STATUS OF COMPLIANCE
	i) All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.	Condition will be complied. All the member units will be instructed to comply with.
	ii) Personnel working In dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health Surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.	Condition will be complied. All the member units will be instructed to comply with.
	iii) Periodical medical examination of the workers engaged in the project shall be carried out and maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots, etc.	Condition will be complied. All the member units will be instructed to comply with.
3.	Water Supply:	
	i) The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out source.	Condition will be complied.
	ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP,	Housing for labours is not proposed, local manpower will be used for construction.

S.NO	CONDITION	STATUS OF COMPLIANCE
	safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
	iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.	Condition will be complied. All the member units will be instructed to comply with.
	iv) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.	Condition will be complied. All the member units will be instructed to comply with.
	v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.	Condition will be complied. All the member units will be instructed to comply with.
4.	Solid Waste Management:	
	i) In the solid waste management plan, the STP sludge management plan for direct use as manure, gardens is not acceptable; it must be co-composted with biodegradables.	All the member units will be instructed to comply with.
	ii) House hold hazardous wastes such as batteries, small electronics, CFL bulbs expired medicines and used cleaning solvent bottles should be segregated at source, in a month from residences and disposed as per the SWM rules 2016.	All the member units will be instructed to follow all applicable rules and guidelines.
	iii) Domestic solid wastes to be regularly	Condition will be complied. All the

S.NO	CONDITION	STATUS OF COMPLIANCE
	collected in bins or waste handling receptacles and solid waste management rules 2016.	member units will be instructed to follow all applicable rules and guidelines.
	iv) No waste of any type disposed of in any watercourse including drains, canals and the surrounding environment.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
	v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
5.	Top Soil Management:	
	i) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	Condition will be complied. All the member units will be instructed to comply with.
6.	Construction Debris disposal:	
	i) Disposal of construction debris during construction phase should not create any adverse effect on the neighbouring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people, The construction and demolition waste shall be managed as per Construction & Demolition Waste Management rules, 2016.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
	ii) Construction spoils, including bituminous materials and other hazardous materials must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent	Condition will be complied. All the member units will be instructed to comply with.

S.NO	CONDITION	STATUS OF COMPLIANCE
	land/lake/ stream etc.	
7.	<p>Diesel Generator sets:</p> <p>i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.</p> <p>ii) The diesel required for stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of explosives shall be taken.</p> <p>iii) The acoustic enclosures installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.</p>	<p>All the member units will be instructed to follow all applicable rules and guidelines.</p> <p>All the member units will be instructed to follow all applicable rules and guidelines.</p> <p>All the member units shall comply with.</p>
8.	<p>Air & Noise Pollution Control:</p> <p>i) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.</p> <p>ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.</p> <p>iii) Traffic congestion near the entry and</p>	<p>Condition will be complied. All the member units will be instructed to comply with.</p> <p>Condition is being complied. All the member units will be instructed to follow all applicable rules and guidelines. Ambient Air and Noise Monitoring Reports are enclosed as Annexure -5.</p> <p>Condition will be complied. All the</p>

S.NO	CONDITION	STATUS OF COMPLIANCE
	exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per DTCP norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be meet before commissioning	member units shall comply with.
	iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	All the member units will be instructed to follow all applicable rules and guidelines.
9.	<p>Building material:</p> <p>i) Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E)dated: 03.11.2009.</p> <p>ii) Ready-mix concrete used in building construction and necessary cube tests should be conducted ascertain their quality.</p> <p>iii)Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.</p>	<p>All the member units will be instructed to follow all applicable rules and guidelines.</p> <p>Condition will be complied. All the member units shall comply with.</p> <p>All the member units shall comply with.</p>
10.	<p>Storm Water Drainage:</p> <p>i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.</p>	Storm water drain will be provided all along the internal roads. All the member units will be instructed to follow all applicable rules and guidelines.

S.NO	CONDITION	STATUS OF COMPLIANCE
	ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.	Condition noted.
11.	Energy Conservation Measures:	
	i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfil the requirement	All the member units will be instructed to follow all applicable rules and guidelines.
	ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfil the requirement.	All the member units will be instructed to follow all applicable rules and guidelines.
	iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.	All the member units will be instructed to follow all applicable rules and guidelines.
	iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.	Condition will be complied. All the member units will be advised to comply with.
	v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in	All the member units will be instructed to follow all applicable rules and guidelines.

S.NO	CONDITION	STATUS OF COMPLIANCE
	three month's time.	
	vi) Energy conservation installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.	Condition will be complied. All the member units will be instructed to comply with.
12.	Fire Safety:	
	i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.	Condition will be complied. All the member units will be instructed to follow all applicable rules and guidelines.
	ii) Proper and free approach road for fire-fighting vehicles up to the buildings and for rescue in the event of emergency shall be made.	Condition will be complied. All the member units will be instructed to comply with.
13.	Green Belt Development:	
	i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.	Condition will be complied.
	ii) The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wild range of indigenous plants species should be planted in and around the premise in consultation with the DFO, Viluppuram District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees	Condition will be complied. Greenbelt will be developed in minimum 33% of total developable area with indigenous native species.

S.NO	CONDITION	STATUS OF COMPLIANCE
	alternating with shrubs shall be plan ted. If possible Miyawaki method of planting i.e planting different types of trees at very close escapement may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot and in between blocks in an organized manner.	
	iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.	Greenbelt will be developed as per the DTCP approved layout plan.
	iv) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval.	Condition will be complied.
14.	Sewage Treatment Plant:	
	i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation, Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.	STP is not proposed by SIPCOT. Individual industries will be mandated to have STP/ETP as per the requirement and to reuse the treated wastewater as per the norms. All the member industries will be instructed to follow applicable rules and guidelines.
	ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.	STP is not proposed by SIPCOT. All the member industries will be instructed to follow applicable rules and guidelines.
	iii) The project proponent shall operate and	STP is not proposed by SIPCOT. All

S.NO	CONDITION	STATUS OF COMPLIANCE
	maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.	the member industries will be instructed to follow applicable rules and guidelines.
	iv) The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.	STP is not proposed by SIPCOT. All the member industries will be instructed to follow applicable rules and guidelines.
	v) The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB	STP is not proposed by SIPCOT. All the member industries will be instructed to follow applicable rules and guidelines.
	vi) The project proponent has to provide separate standby D.G. set for the STP for the continuous operation of the STP in case of power failure.	All the member units shall comply with.
15.	Rain Water Harvesting:	
	i) The proponent/Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.	All the member units will be instructed to comply with.
	ii) Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.	All the member units will be instructed to comply with.
	iii) The project activity should not cause any disturbance & deterioration of the local bio diversity.	Condition will be complied.

S.NO	CONDITION	STATUS OF COMPLIANCE
16.	<p>Building Safety: Lightning arrester shall be properly designed and installed at top of the building and wherever is necessary.</p>	All the member industries will be instructed to follow applicable rules and guidelines.

5.0 ENVIRONMENTAL MONITORING DETAILS

It is mandatory to submit six monthly EC compliance report (Half Yearly Compliance) to MoEF & CC Regional Office by the proponent. For the purpose of submitting Six-Monthly EC Compliance report, environmental monitoring was carried out at site by M/s. Hubert Enviro Care Systems Pvt. Ltd during the period of April 2023 – September 2023.

5.1 Ambient Air Quality monitoring

During construction phase, particulate matter and gaseous emissions are likely to arise from the site movement of vehicles, operation of DG sets etc., the ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored. The test report of ambient air quality for the period of April 2023 – September 2023 is enclosed as **Annexure - 5**.

5.2 Ambient Noise level monitoring

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of April 2023 – September 2023 is enclosed as **Annexure - 5**.

5.3 Soil quality monitoring

Soil samples were collected and analyzed for nutrients and heavy metals. The test report of soil samples collected and analyzed during the period of April 2023 – September 2023 is enclosed as **Annexure - 5**.

5.4 Ground water quality monitoring

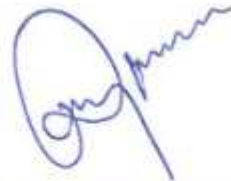
Ground water was tested for various water quality parameters during the period of April 2023 – September 2023. The test report of ground water collected and analyzed is enclosed as **Annexure- 5**.

5.5 Surface water quality monitoring

The surface water was collected and tested for various water quality parameters during the period of April 2023 – September 2023. The test report of surface water collected and analyzed is enclosed as **Annexure- 5**.

6.0 CONCLUSION

1. The environmental monitoring was carried out at site during the period of April 2023 – September 2023.
2. All the conditions stipulated in Environmental Clearance are being complied / will be complied.



Dr. RAJKUMAR SAMUEL
Director Technical

Name: Dr. Rajkumar Samuel
Designation: Director Technical
Company Name: Hubert Enviro Care
Systems Private Limited

ANNEXURE



Dr. JAYANTHI. M, I.F.S
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY – TAMIL NADU

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

Phone No.044-24359973

Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F. 6496/EC/ 8(b)/ 680/2019 dated: 27.11.2019.

To

The Managing Director
M/s. State Industries Promotion Corporation of Tamil Nadu Limited.
19-A, Rukmani Lakshmiopathy Road
Post Box no.7223
Egmore
Chennai-600 008

Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed establishment of Industrial Park at Manaparai by M/s. State Industries Promotion Corporation of Tamil Nadu Limited at S.F. No. 16, 17, 18, etc (Annexure-1) of Kannudaiyanpatty, K. K. Periyapatty (N) and Chattirapatty Villages, Manaparai Taluk, Tiruchirappalli District, Tamil Nadu - Issued – Regarding.

Ref: 1. Your application for Terms of Reference dated: 01.02.2018

2. ToR Issued by SEIAA-TN Vide Lr.No.SEIAA-TN/F.No.6496/2018/8(b)/ToR-507/2018 dated: 16.07.2018

3. EIA report submitted to SEIAA-TN on 05.04.2019

4. Minutes of the 133rd SEAC Meeting held on 25.07.2019

5. Proponent reply dated: 30.10.2019

6. Minutes of the 139th SEAC Meeting held on 23.11.2019

7. Minutes of the 362nd SEIAA Meeting held on 27.11.2019



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This has reference to your application 1st cited, the proposal is for obtaining Environmental Clearance to establish a construction project under Category B2 and Schedule S.No. 8(b) under the Environment Impact Assessment Notification, 2006, as amended.

The Competent Authority and Authorized signatory furnished detailed information in Form 1 and Form 1A and liquidate enclosures are as Annexures:

Annexure 1

PROJECT DETAILS								
SL No	Description	Details						
1)	Name of the Project proponent and address	The Managing Director M/s. State Industries Promotion Corporation of Tamil Nadu Limited. 19-A, Rukmani Lakshmiopathy Road Post Box no.7223 Egmore Chennai-600 008						
2)	Proposed Activity	Proposed establishment of Industrial Park at Manaparai						
3)	Schedule No.	8(b)						
4)	Project Location							
	i)Survey No	16, 17, 18, etc (Annexure-1)						
	ii)Revenue Village	Kannudaiyanpatty, K. Periyapatty (N) and Chattirapatty Villages						
	iii)Taluk	Manaparai						
	iv)District	Tiruchirappalli						
5)	Area of the Land	436.05 Hectares						
6)	Built up Area							
	<table border="1"> <thead> <tr> <th>Sl.No.</th> <th>Description</th> <th>Area (Hectares)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sl.No.	Description	Area (Hectares)				
Sl.No.	Description	Area (Hectares)						



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	1	Plot area	328.59
	2	Roads and Storm water drainage	22.81
	3	Common amenities (EB, Water storage, Fire Services, Administrative Office, etc.)	3.51
	4	Commercial activities	11.72
	5	Green Belt outside plot area (OSR)	43.25
	6	Green Belt along roadside	5.69
	7	Solid Waste Management	16.95
		Total developable area	432.50
		Water bodies (which will not be encroached)	3.55
		Total IP area	436.05
7)	<p>Brief description of the project</p> <p>The proposal is an infrastructure development project. It involves development of roads, water supply, storm water drainage, street lights, green belt development, and such other amenities.</p> <p>Industrial Park will house industries which do not fall under EIA Notification 2009 and amendments thereof. The proposed industries include the following:</p> <ul style="list-style-type: none"> • All General Engineering units such as fabrication, machining, forging, castings etc., • Auto components Industries. • Food Processing Industries. • Packaging units. • Paper conversion. • Any other industries that are not under the purview of EIA Notification,2006 		
8)	Land Use Classification	Patta dry land & Govt Poramboke Land	



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9)	Green Belt	
	Sl.No.	Description
		Area (Hectares)
	1.	By SIPCOT outside the plot area
		43.25
	2.	By SIPCOT along the Road sides and Central meridian
		5.69
	3.	By Member Industries (30 % of the total plot area allotted to Member Industries) i.e 30% of 328.59 Ha
		98.58
		Total
		147.52
		Percentage of Green Belt among Total developable Area of Industrial Park i.e 432.50 hectares
		34.11%
11)	UTILITIES-WATER	
	a) Total Water Requirements	6 MLD
	b) Source from where the water is proposed to be drawn	sourced from Cauvery river basin
	c) Sewage system	All member units will be mandated to install "Zero Liquid Discharge" based Effluent Treatment Plants to reclaim water for recycle/reuse in their utilities and green belt development. The quantity of sewage that will be generated from SIPCOT administrative office will be managed in septic tank followed by soak pit.
	d) ETP & Recycle line	All member units will be mandated to install "Zero Liquid Discharge" based Effluent Treatment Plants to reclaim water for recycle/reuse in their utilities and green belt development.



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12)	Solid Waste Management	Area of 16.95 Ha has been earmarked for establishing a solid waste management facility. SIPCOT will identify a TSDF provider and facilitate to establish such a treatment, storage and disposal facility(TSDF) in line with guidelines of CPCB & MoEF & CC Solid waste generated will be disposed to the approved Municipal Solid Waste Management or else SIPCOT will set up its facility through renowned agencies by outsourcing their services on annual contract basis
13)	Power requirement	100MW from TANGEDCO
14)	Project Cost	Rs. 500 Crores
15)	EMP Cost	For Operation Phase: Capital Cost -1Crores, Operation cost- 50 Lakhs per annum

Annexure 2- Affidavit

The Proponent has furnished affidavit in Twenty Rupees stamp paper attested by the Notary stating that

I, Thiru.J.Kumarargurubaran, IAS, Managing Director, Authorised Signatory, represent I M/s. State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT), 19-A, Rukmani Lakshmiopathy Road, Egmore, Chennai - 600008. We have proposed to establish an industrial park over an extent of 436.05 hectares at Kannudaiyanpatty, K.Periyapatty(N) and Chattirapatty villages of Manaparai Taluk, Tiruchirapalli district. An application submitted by us seeking Environmental Clearance under the EIA Notification, 2006 is under scrutiny in the Authority. I am furnishing the following undertaking to the Authority, hereby solemnly affirm and state as follows:-

1. We commit to SEIAA that we will develop Green belt in OSR areas and along the roadsides in 11.32% of the total developable area of 432.50 hectares i.e 48.94




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hectares. Further, we will also ensure the development of green belt in 30% of the allotted area by the member units i.e 98.58 hectares, which is 22.79% of total developable area. It will be made as a mandatory condition in the land allotment order as well as the lease deed to be executed between SIPCOT and allottees. The net area of green belt of the proposed industrial park in the post project scenario will be 147.52 hectares, which is 34.11% of the total developable area of the park.

2. We commit to SEIAA that the total water requirement for the park is 6 MLD, which will be obtained from Tamil Nadu Water Supply and Drainage Board (TWAD) from Cauvery Water Supply scheme. We assure that the required permission from the competent Authority for supply of water for entire period of operation will be obtained before applying for Consent for Operation (CTO) from Tamilnadu Pollution Control Board (TNPCB).
3. We commit to SEIAA that all member units will be mandated to install, "Zero Liquid Discharge" based Effluent Treatment Plants to reclaim water for recycle/reuse in their utilities and green belt development. We will mandate to member units to manage the sewage as per TNPCB norms. The solid waste stream will be sent to TNPCB approved vendors/TSDF for proper and ultimate disposal. The quantity of sewage that will be generated from SIPCOT administrative office will only be 1000 litres/day and it will be managed in septic tank followed by soak pit as onsite construction.
4. We commit to SEIAA that all member units will be mandated to provide rain water harvesting structures as per norms. SIPCOT will construct percolation tanks for harvesting the rainwater in the project office.
5. We commit to SEIAA that we will provide storm water drainage system as open concrete channels, all along the road side for ensuring proper collection of storm water and will let out in the nearby water bodies. We also assure that the storm water drain would not carry any untreated or treated sewage.
6. We commit to SEIAA that we will undertake CER activities as per norms with the approval of board of SIPCOT.



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7. We also assure that our project site does not encroach any water bodies such as rivers, canals, nallas, lakes, ponds, tanks, etc., from its original boundary.
8. We are aware that we can be prosecuted under relevant Act and Rules, if we are not ensuring the adherence of the above commitment.

Commitment signed by me as an Authorized signatory of the Project Proponent before the SEIAA, Tamil Nadu.

The project activity is covered in 8(b) of the Schedule and is of B2 category. It does not require Public Consultation as per Para 7 III Stage (3) (i) (d) of EIA Notification, 2006.

The Authority after consideration all the requisite documents with status and data and based on SEAC appraisal and recommendations for issue of Environmental Clearance in its 139th meeting held on 23.11.2019, SEIAA placed the proposal in the 362nd SEIAA meeting held on 27.11.2019 hereby conveyed Environmental Clearance along with the conditions containing four parts namely

Part - A –Common conditions applicable for Pre-construction, Construction and Operational Phases

Part - B –Specific Conditions – Pre construction phase

Part - C - Specific Conditions – Construction phase

Part – D - Specific Conditions – Operational Phase/Post constructional Phase / Entire life of the project.

Validity:

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended, with validity for Seven years from the date of issue of EC, subject to the compliance of the terms and conditions stipulated below:

Part - A – Common conditions applicable for Pre-construction, Construction and Operational Phases:

1. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



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2. The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
7. 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. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.



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9. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
10. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.
12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
13. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
15. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or



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SEIAA-TN

- submitted false or misleading information or inadequate data for obtaining the environmental clearance.
16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
 17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
 18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
 19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
 20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
 21. The EMP cost of Rs.1.5 Crores shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
 22. The project activity should not cause any disturbance & deterioration of the local bio diversity.
 23. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
 24. All the assessed flora & fauna should be conserved and protected.
 25. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and Forests (S) Department dated 25.06.2018 regarding




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- ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
26. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.
27. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
28. The safety measures proposed in the report should be strictly followed.
29. The Developer shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.
30. The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.
31. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
32. The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and throwaway plastics.
33. The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.



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34. The proponent shall obtain the necessary permission/ NOC of water supply from the TWAD Board/competent Authority.
35. The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.
36. The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
37. The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.
38. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
39. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
40. It is the sole responsibility of the proponent that the treated sewage disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc.
41. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents,
42. The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rule 2016 as amended and E-Waste Management Rules, 2016
43. There shall be no discharge of effluent outside the Industrial Park at any time.
44. The Developer shall mandate the member units of the Industrial Park to install adequate APC measures/Acoustic to achieve air emissions standards within permissible limits prescribed by the CPCB.

Part - B – Specific Conditions – Pre construction phase:

1. The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State



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SEIAA-TN

- Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.
2. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
 3. A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.
 4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments, etc as per National Building Code including protection measures from lightning etc before commencement of the work.
 5. All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
 6. Design of buildings should be in conformity with the Seismic Zone Classifications.
 7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
 8. No construction activity of any kind shall be taken up in the OSR area.
 9. Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.
 10. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
 11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
 12. The project proponent shall ensure the level of basement shall be above maximum flood level.
 13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details



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MEMBER SECRETARY
SEIAA-TN

- i. Location of STP, compost system, underground sewer line.
 - ii. Pipe Line conveying the treated effluent for green belt development.
 - iii. Pipe Line conveying the treated effluent for toilet flushing
 - iv. Water supply pipeline
 - v. Gas supply pipe line, if proposed
 - vi. Telephone cable
 - vii. Power cable
 - viii. Storm water drains, and
 - ix. Rain water harvesting system, etc., and it shall be made available to the owners
14. A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.
15. The present land use surrounding the project site shall not be disturbed at any point of time.
16. The green belt area shall be planted with indigenous native trees.
17. Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.
18. During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.
19. The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.
20. There should be Fire fighting plan and all required safety plan.
21. Regular fire drills should be held to create awareness among owners/ residents.

Part - C - Specific Conditions – Construction phase:

1. Construction Schedule:

- i) The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.



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SEIAA-TN

2. Labour Welfare:

- i) All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.
- ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.
- iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.

3. Water Supply:

- i) The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out sourced.
- ii) Provision shall be made for the housing labour within the site with all necessary infrastructures 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.
- iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.



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- iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.

4. Solid Waste Management:

- i) In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.
- ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
- iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.
- iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
- v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.

5. Top Soil Management:

- i) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.

6. Construction Debris disposal:

- i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.



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- ii) Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/ lake/ stream etc.

7. Diesel Generator sets:

- i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.
- ii) The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.
- iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.

8. Air & Noise Pollution Control:

- i) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.
- ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.
- iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per DTCP norms. The traffic department shall be consulted and any cost effective traffic repurative facility shall be met before commissioning.



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- iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.

9. Building material:

- i) Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.
- ii) Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.
- iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.

10. Storm Water Drainage:

- i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.
- ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.

11. Energy Conservation Measures:

- i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.
- ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.
- iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.



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- iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.
- v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.
- vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

12. Fire Safety:

- i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.
- ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue operations in the event of emergency shall be made.

13. Green Belt Development:

- i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.
- ii) The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wild range of indigenous plants species should be planted in and around the premise in consultation with the DFO, Viluppuram District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. If possible Miyawaki method of planting i.e planting different types of trees at very close escapement may be tried



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which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot and in between blocks in an organized manner

- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.
- iv) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval

14. Sewage Treatment Plant:

- i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.
- ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.
- iii) The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards prescribed by the CPCB.
- iv) The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.
- v) The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.
- vi) The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.

15. Rain Water Harvesting:

- i) The proponent/ Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficitation of rain water harvesting by



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constructing adequate sumps so that 100% of the harvested water shall be reused.

- ii) Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.
- iii) The project activity should not cause any disturbance & deterioration of the local bio diversity.

16. Building Safety:

Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.

Part – D – Specific Conditions – Operational Phase/Post constructional phase/Entire life of the project:

1. There should be Fire fighting plan and all required safety plan.
2. Regular fire drills should be held to create awareness among owners/ residents.
3. House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
5. The project proponent has to furnish the certificate stating that the proposed site had not encroached any water body (rivers, canals, lakes, ponds, tanks, etc) from its original boundary shall be obtained from the competent authority before obtaining CTE from TNPCB.
6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. Solar energy saving shall be increased to atleast 10% of total energy utilization.



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8. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
9. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.
10. The EMP cost Rs.1.5 Crores shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
11. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
12. The project activities should in no way disturb the manmade structures.
13. The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
14. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
15. Raw water quality to be checked for portability and if necessary RO plant shall be provided.
16. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a



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viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.

17. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
18. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.
19. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
20. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
21. The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016 as amended.
22. Diesel power generating sets proposed as source of back-up power 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.
23. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
25. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.



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26. The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
27. Used 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.
28. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.
29. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.


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Copy to:

1. The Principal Secretary to Government, Environment & Forests Dept,
Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan,
CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board,
76, Mount Salai, Guindy, Chennai-600 032.
4. The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ),
34, HEPC Building, 1st& 2nd Floor, Cathedral Garden Road, Nungambakkam,
Chennai - 34.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Tiruchirappalli District.
7. Stock File.



Annexure-I

Village wise List of survey numbers for the establishment of industrial park at Kannudaiyanpatty, K. Periyapatty (N) and Chathirapatty Villages, Manaparai Taluk, Tiruchirappalli District, Tamil Nadu.

ABSTRACT

Name of Village	Dry (in Ha)	Poramboke (in Ha)	Total Extent (in Ha)
Kannudaiyanpatty	234.180	4.960	239.140
K. Periyappatty (N)	152.980	3.670	156.650
Chathirapatty	38.740	1.525	40.265
Total	425.90	10.155	436.055

Name of the Village: Kannudaiyanpatty

S.F. No	Sub Division	Dry (in Ha)	Poramboke (in Ha)	Total Extent (in Ha)
16	1	0.115	-	0.115
16	2A	0.270	-	0.270
16	2B	0.550	-	0.550
16	3	0.305	-	0.305
16	4	0.150	-	0.150
16	5	0.175	-	0.175
16	6	1.015	-	1.015
16	7	0.140	-	0.140
16	8	0.140	-	0.140



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16	9	0.490	-	0.490
17	1	0.095	-	0.095
17	2	0.330	-	0.330
17	3A	0.065	-	0.065
17	3B	0.200	-	0.200
17	4	0.320	-	0.320
17	5A	0.045	-	0.045
17	5B	0.160	-	0.160
17	6	0.165	-	0.165
17	7	0.020	-	0.020
17	8	0.260	-	0.260
17	9A	0.320	-	0.320
17	9B	0.245	-	0.245
17	10	0.220	-	0.220
18	1A	1.505	-	1.505
18	1B1	0.440	-	0.440
18	1B2	0.925	-	0.925
18	2	0.560	-	0.560
18	3	0.775	-	0.775
18	4	0.380	-	0.380
18	5	0.180	-	0.180
18	6	0.180	-	0.180
18	7	0.165	-	0.165
18	8	0.155	-	0.155
21	1	0.955	-	0.955
21	2	0.350	-	0.350
21	3	1.395	-	1.395
21	4	0.100	-	0.100
21	5A	0.165	-	0.165



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21	5B	0.585	-	0.585
21	6	0.570	-	0.570
22	1	2.175	-	2.175
22	2	0.605	-	0.605
22	3	0.225	-	0.225
30	1	0.235	-	0.235
30	2A	0.450	-	0.450
30	2B	1.410	-	1.410
30	2C	1.410	-	1.410
30	2D	0.375	-	0.375
30	2E	0.250	-	0.250
30	2F	2.580	-	2.580
30	2G	0.325	-	0.325
30	2H	1.360	-	1.360
31	1	0.755	-	0.755
31	2	0.280	-	0.280
31	3	0.285	-	0.285
31	4	0.300	-	0.300
31	5	0.305	-	0.305
31	6	0.720	-	0.720
31	7	0.240	-	0.240
31	8	0.350	-	0.350
31	9	0.300	-	0.300
31	10	0.325	-	0.325
31	11	0.395	-	0.395
31	12	0.395	-	0.395
32	1	0.240	-	0.240
32	2A	1.620	-	1.620
32	2B	0.270	-	0.270



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32	3	0.540	-	0.540
32	4	0.235	-	0.235
33	1	0.225	-	0.225
33	2A	0.950	-	0.950
33	2B	0.385	-	0.385
33	3	0.550	-	0.550
33	4	0.490	-	0.490
33	5A	0.065	-	0.065
33	5B	0.065	-	0.065
33	5C	0.325	-	0.325
33	6	0.140	-	0.140
33	7	0.150	-	0.150
34	1	0.120	-	0.120
34	2	0.160	-	0.160
34	3	0.075	-	0.075
34	4	0.075	-	0.075
34	5	0.140	-	0.140
34	6	0.430	-	0.430
34	7A	0.325	-	0.325
34	7B	0.245	-	0.245
34	8	0.435	-	0.435
35	1	0.795	-	0.795
35	2	0.435	-	0.435
35	3	0.145	-	0.145
35	4	0.165	-	0.165
35	5	0.180	-	0.180
35	6	0.210	-	0.210
35	7	0.165	-	0.165
35	8	0.220	-	0.220



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35	9	0.410	-	0.410
35	10	0.515	-	0.515
35	11	0.315	-	0.315
36	1	0.360	-	0.360
36	2	0.625	-	0.625
36	3	1.280	-	1.280
36	4	0.180	-	0.180
36	5	0.925	-	0.925
36	6A	0.300	-	0.300
36	6B	0.310	-	0.310
36	7	0.775	-	0.775
38	1	0.300	-	0.300
38	2A	0.100	-	0.100
38	2B	0.145	-	0.145
38	3A1	0.375	-	0.375
38	3A2	0.915	-	0.915
38	5	0.140	-	0.140
41	1	0.200	-	0.200
41	2	0.100	-	0.100
41	3a1	0.270	-	0.270
41	3a2	0.220	-	0.220
41	3b	0.215	-	0.215
41	4	0.430	-	0.430
41	5	0.260	-	0.260
41	6	0.245	-	0.245
41	7	0.200	-	0.200
41	8	0.415	-	0.415
41	9	0.300	-	0.300
41	10	0.300	-	0.300



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41	11A1	0.520	-	0.520
41	11B	0.510	-	0.510
42	1	2.145	-	2.145
42	2	2.265	-	2.265
43	1	0.805	-	0.805
43	2	0.115	-	0.115
43	3	0.170	-	0.170
43	4	1.265	-	1.265
44	1	0.765	-	0.765
44	2	0.755	-	0.755
44	3	0.785	-	0.785
46	1	0.485	-	0.485
46	2A	0.180	-	0.180
46	2B	0.195	-	0.195
46	2C	0.190	-	0.190
46	2D	0.220	-	0.220
46	3	0.125	-	0.125
46	4	0.500	-	0.500
46	5	0.050	-	0.050
46	6	0.040	-	0.040
46	7	0.615	-	0.615
46	8	0.610	-	0.610
46	9A	0.200	-	0.200
46	9B	0.530	-	0.530
47	2	0.170	-	0.170
47	3	0.270	-	0.270
47	4	0.070	-	0.070
47	5	0.150	-	0.150
47	6	0.330	-	0.330



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47	7A	0.130	-	0.130
47	7B	0.105	-	0.105
47	8A	0.230	-	0.230
47	8B	0.185	-	0.185
47	9	0.510	-	0.510
47	1	-	0.215	0.215
48	1	0.165	-	0.165
48	2	0.150	-	0.150
48	3	0.470	-	0.470
48	4A	0.095	-	0.095
48	4B	0.075	-	0.075
48	5A	0.080	-	0.080
48	5B	0.100	-	0.100
48	6	0.165	-	0.165
48	7	0.165	-	0.165
48	8	0.235	-	0.235
48	9	0.080	-	0.080
48	10	0.180	-	0.180
53	1A	0.255	-	0.255
53	1B	0.020	-	0.020
53	1C	0.275	-	0.275
53	2A	0.175	-	0.175
53	2B	0.115	-	0.115
53	3	0.760	-	0.760
53	4	0.085	-	0.085
53	5	0.145	-	0.145
53	6A	0.120	-	0.120
53	6B	0.145	-	0.145
53	7A	0.105	-	0.105



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53	7B	0.295	-	0.295
53	8A	0.110	-	0.110
53	8B	0.050	-	0.050
53	8C	0.050	-	0.050
53	9A	0.390	-	0.390
53	9B	0.320	-	0.320
53	10	0.245	-	0.245
53	11	-	0.020	0.020
82	1	0.195	-	0.195
82	2	0.190	-	0.190
82	3A	1.215	-	1.215
82	3B	0.260	-	0.260
82	4	0.110	-	0.110
82	5	0.460	-	0.460
82	6	0.030	-	0.030
82	7	0.095	-	0.095
82	8A	0.140	-	0.140
82	8B	0.010	-	0.010
82	9A	0.215	-	0.215
82	9B	0.150	-	0.150
82	9C	0.215	-	0.215
82	9D	0.145	-	0.145
82	9E	0.040	-	0.040
82	10	0.075	-	0.075
82	11A	0.360	-	0.360
82	11B	0.115	-	0.115
82	12A	0.310	-	0.310
82	12B	0.015	-	0.015
82	13	-	-	0.030



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83	1	0.240	-	0.240
83	2	0.320	-	0.320
83	3A	0.190	-	0.190
83	3B	0.185	-	0.185
83	4	0.105	-	0.105
83	5	0.315	-	0.315
83	6	0.280	-	0.280
83	7	0.395	-	0.395
84	1A	0.355	-	0.355
84	1B	0.160	-	0.160
84	1C	0.750	-	0.750
84	1D	0.405	-	0.405
84	1E	0.145	-	0.145
84	2	0.070	-	0.070
84	3	0.115	-	0.115
84	4	0.245	-	0.245
84	5	0.095	-	0.095
84	6	0.375	-	0.375
84	7	0.340	-	0.340
85	1A	0.915	-	0.915
85	1B	0.015	-	0.015
85	2	0.085	-	0.085
85	3	0.095	-	0.095
85	4	0.180	-	0.180
85	5A	0.185	-	0.185
85	5B	0.180	-	0.180
85	5C	0.010	-	0.010
85	6	0.195	-	0.195
85	7		-	0.480



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85	8	0.225	-	0.225
85	9A	0.400	-	0.400
85	9B	0.405	-	0.405
85	9C	0.110	-	0.110
85	9D	0.095	-	0.095
88	1A	0.085	-	0.085
88	1B	0.080	-	0.080
88	2	0.120	-	0.120
88	3A	0.110	-	0.110
88	3B	0.105	-	0.105
88	4A	0.195	-	0.195
88	4B	0.005	-	0.005
88	5	0.190	-	0.190
88	6A1A	0.190	-	0.190
88	6A1B	0.380	-	0.380
88	6A2	0.025	-	0.025
88	6B1	0.165	-	0.165
88	6B2	0.110	-	0.110
88	6B3	0.110	-	0.110
88	6B4	0.010	-	0.010
88	7	0.725	-	0.725
88	8	0.155	-	0.155
88	9	0.220	-	0.220
88	10A	0.675	-	0.675
88	10B	0.010	-	0.010
88	11	0.180	-	0.180
88	12	0.175	-	0.175
88	13	0.160	-	0.160
88	14A	0.170	-	0.170



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88	14B	0.010	-	0.010
88	15A	0.065	-	0.065
88	15B	0.010	-	0.010
89	1A	0.185	-	0.185
89	1B	0.080	-	0.080
89	2A	0.095	-	0.095
89	2B	0.110	-	0.110
89	2C	0.095	-	0.095
89	3A	0.090	-	0.090
89	3B	0.095	-	0.095
89	3C	0.090	-	0.090
89	4A	0.190	-	0.190
89	4B	0.090	-	0.090
89	5	0.345	-	0.345
89	6	0.255	-	0.255
89	7	0.460	-	0.460
89	8A	0.485	-	0.485
89	8B	0.445	-	0.445
89	9	0.935	-	0.935
89	10	0.195	-	0.195
89	11	0.145	-	0.145
90	1	0.565	-	0.565
90	2A	0.290	-	0.290
90	2B	0.215	-	0.215
90	3	0.255	-	0.255
90	4	0.500	-	0.500
90	5A	0.425	-	0.425
90	5B	0.020	-	0.020
90	6A	0.705	-	0.705



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90	6B	0.660	-	0.660
90	6C	0.035	-	0.035
90	7	0.325	-	0.325
90	8	0.295	-	0.295
90	9A	0.315	-	0.315
90	9B	0.020	-	0.020
90	10A	0.030	-	0.030
90	10B	0.005	-	0.005
90	11A	0.215	-	0.215
90	11B	0.200	-	0.200
90	11C	0.020	-	0.020
94	1A	0.080	-	0.080
94	1B	0.140	-	0.140
94	1C	0.095	-	0.095
94	1D	0.260	-	0.260
94	1E	0.015	-	0.015
94	1F	0.290	-	0.290
94	1G	0.200	-	0.200
94	1H	0.225	-	0.225
94	1I	0.215	-	0.215
94	2	0.190	-	0.190
94	3A	0.065	-	0.065
94	3B	0.030	-	0.030
94	3C	0.050	-	0.050
94	4	0.055	-	0.055
94	5A	0.270	-	0.270
94	5B	0.735	-	0.735
94	5C	0.010	-	0.010
94	6A	0.060	-	0.060



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94	6B	0.005	-	0.005
94	7A	0.020	-	0.020
94	7B	0.040	-	0.040
94	7C	0.090	-	0.090
94	8A	0.080	-	0.080
94	8B	0.075	-	0.075
94	8C	0.080	-	0.080
94	9	0.140	-	0.140
94	10A	0.175	-	0.175
94	10B	0.290	-	0.290
94	11A	0.050	-	0.050
94	11B	0.065	-	0.065
94	11C	0.010	-	0.010
94	12A	0.115	-	0.115
94	12B	0.010	-	0.010
94	13A	0.020	-	0.020
94	13B	0.010	-	0.010
94	14	0.120	-	0.120
94	15	0.075	-	0.075
94	16	0.115	-	0.115
95	1	0.650	-	0.650
95	2A	0.075	-	0.075
95	2B	0.040	-	0.040
95	2C	0.035	-	0.035
95	2D	0.070	-	0.070
95	2E	0.045	-	0.045
95	2F	0.055	-	0.055
95	2G	0.045	-	0.045
95	2H	0.650	-	0.650



Jayasi
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95	2I	0.440	-	0.440
95	2J	0.200	-	0.200
95	2K	0.095	-	0.095
95	2L	0.100	-	0.100
95	2M	0.200	-	0.200
95	2N	0.090	-	0.090
96	1A	0.240	-	0.240
96	1B	0.420	-	0.420
96	1C	0.785	-	0.785
96	1D	0.130	-	0.130
96	1E	0.360	-	0.360
96	1F	0.110	-	0.110
96	1G	0.020	-	0.020
96	1H	0.220	-	0.220
96	2	0.350	-	0.350
96	3	0.250	-	0.250
97	1	0.845	-	0.845
97	2	0.330	-	0.330
97	3	0.390	-	0.390
97	4	0.280	-	0.280
97	5	0.285	-	0.285
97	6	0.600	-	0.600
97	7	0.260	-	0.260
97	8	0.240	-	0.240
97	9	0.560	-	0.560
98	1	0.350	-	0.350
98	2	0.115	-	0.115
98	3	0.100	-	0.100
98	4		-	0.230



Jayan
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98	5	0.355	-	0.355
98	6	0.390	-	0.390
98	7	0.120	-	0.120
98	8	0.140	-	0.140
98	9	0.070	-	0.070
98	10	0.060	-	0.060
98	11	0.110	-	0.110
98	12	0.120	-	0.120
98	13A	0.110	-	0.110
98	13B	0.295	-	0.295
98	13C	0.260	-	0.260
99	1	0.405	-	0.405
99	2	0.395	-	0.395
99	3A	0.065	-	0.065
99	3B	0.065	-	0.065
99	3C	0.070	-	0.070
99	4A	0.180	-	0.180
99	4B	0.190	-	0.190
99	4C	0.220	-	0.220
99	5	0.310	-	0.310
99	6	0.360	-	0.360
99	7	0.370	-	0.370
99	8	0.160	-	0.160
99	9	0.155	-	0.155
99	10A	0.165	-	0.165
99	10B	0.165	-	0.165
99	11A	0.205	-	0.205
99	11B	0.070	-	0.070
99	11C	0.080	-	0.080



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99	11D	0.170	-	0.170
100	1	0.305	-	0.305
100	2	0.145	-	0.145
100	3	0.155	-	0.155
100	4A	0.610	-	0.610
100	4B	0.370	-	0.370
100	4C	0.770	-	0.770
100	5	0.455	-	0.455
100	6	0.590	-	0.590
100	7	0.015	-	0.015
101	-	1.400	-	1.400
102	1A	0.240	-	0.240
102	1B	0.170	-	0.170
102	1C	0.170	-	0.170
102	2	0.205	-	0.205
102	3	0.360	-	0.360
102	4A	0.180	-	0.180
102	4B	0.285	-	0.285
102	5A	0.105	-	0.105
102	5B	0.320	-	0.320
102	6A	0.070	-	0.070
102	6B	0.070	-	0.070
102	7	0.445	-	0.445
102	8	0.555	-	0.555
102	9	0.230	-	0.230
102	10	0.130	-	0.130
102	11	0.355	-	0.355
102	12	0.945	-	0.945
103	1		-	0.730



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103	2	0.455	-	0.455
103	3	0.710	-	0.710
103	4	1.260	-	1.260
104	1	0.920	-	0.920
104	2	0.040	-	0.040
104	3A1	0.145	-	0.145
104	3A2	0.375	-	0.375
104	3B	0.540	-	0.540
104	4A	0.300	-	0.300
104	4B	0.170	-	0.170
104	5	0.615	-	0.615
104	6	0.125	-	0.125
105	1	0.445	-	0.445
105	2	0.140	-	0.140
105	3	0.225	-	0.225
105	4	0.200	-	0.200
105	5	0.100	-	0.100
105	6	0.225	-	0.225
105	7	0.145	-	0.145
105	8	0.330	-	0.330
105	9	0.765	-	0.765
105	10	0.160	-	0.160
105	11	0.150	-	0.150
106	1	0.265	-	0.265
106	2A	0.200	-	0.200
106	2B	0.200	-	0.200
106	2C	0.650	-	0.650
106	2D	0.250	-	0.250
106	3A	0.100	-	0.100



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106	3B	0.160	-	0.160
106	3C	0.195	-	0.195
106	4	0.180	-	0.180
106	5	0.485	-	0.485
107	1A	0.170	-	0.170
107	1B	0.205	-	0.205
107	1C	0.210	-	0.210
107	1D	0.130	-	0.130
107	2A	0.170	-	0.170
107	2B	0.180	-	0.180
107	2C	0.370	-	0.370
107	3A	0.330	-	0.330
107	3B	0.040	-	0.040
107	3C	0.120	-	0.120
107	3D	0.070	-	0.070
107	3E	0.345	-	0.345
107	4	0.075	-	0.075
107	5	0.200	-	0.200
107	6	0.485	-	0.485
107	7A	0.100	-	0.100
107	7B	0.200	-	0.200
107	7C	0.305	-	0.305
108	1A	0.190	-	0.190
108	1B	0.170	-	0.170
108	1C	0.290	-	0.290
108	2	0.215	-	0.215
108	3	0.115	-	0.115
108	4A	0.025	-	0.025
108	4B	0.275	-	0.275



Jaya
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108	5	0.330	-	0.330
108	6	0.210	-	0.210
108	7	0.145	-	0.145
108	8	0.360	-	0.360
108	9A	0.290	-	0.290
108	9B	0.320	-	0.320
108	10A	0.410	-	0.410
108	10B	0.470	-	0.470
109	1A	0.300	-	0.300
109	1B	0.085	-	0.085
109	1C	0.080	-	0.080
109	1D	0.160	-	0.160
109	1E	0.735	-	0.735
109	1F	0.135	-	0.135
109	1G	0.135	-	0.135
109	1H	0.250	-	0.250
109	1I	0.010	-	0.010
109	1J	0.070	-	0.070
109	1K	0.035	-	0.035
109	2A	0.020	-	0.020
109	2B	0.060	-	0.060
109	2C	0.065	-	0.065
109	2D	0.005	-	0.005
109	2E	0.050	-	0.050
110	1	0.330	-	0.330
110	2	0.525	-	0.525
110	3A	0.385	-	0.385
110	3B	0.150	-	0.150
110	4	0.455	-	0.455



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110	5A	0.550	-	0.550
110	5B	0.725	-	0.725
110	6	0.145	-	0.145
111	1	0.135	-	0.135
111	2	0.125	-	0.125
111	3	0.650	-	0.650
111	4	0.140	-	0.140
111	5	0.900	-	0.900
111	6A	0.060	-	0.060
111	6B	0.035	-	0.035
111	7	0.055	-	0.055
111	8	0.070	-	0.070
111	9A	0.095	-	0.095
111	9B	0.130	-	0.130
111	10	0.120	-	0.120
111	11	0.160	-	0.160
111	12A	0.270	-	0.270
111	12B	0.255	-	0.255
111	13A	0.165	-	0.165
111	13B	0.190	-	0.190
112	1	0.105	-	0.105
112	2	0.115	-	0.115
112	3	0.105	-	0.105
112	4	0.110	-	0.110
112	5A	0.135	-	0.135
112	5B	0.025	-	0.025
112	5C	0.015	-	0.015
112	6	0.235	-	0.235
112	7	0.360	-	0.360



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112	8A	0.275	-	0.275
112	8B	0.290	-	0.290
112	9	0.200	-	0.200
112	10A	0.105	-	0.105
112	10B	0.105	-	0.105
112	11A	0.245	-	0.245
112	11B	0.235	-	0.235
112	12	0.245	-	0.245
112	13A	0.085	-	0.085
112	13B	0.130	-	0.130
112	14A	0.115	-	0.115
112	14B	0.065	-	0.065
112	15	0.365	-	0.365
112	16	0.260	-	0.260
113	1	0.225	-	0.225
113	2	0.495	-	0.495
113	3	0.180	-	0.180
113	4	0.310	-	0.310
113	5A	0.660	-	0.660
113	5B	0.185	-	0.185
113	6	0.170	-	0.170
113	7A	0.235	-	0.235
113	7B	0.320	-	0.320
113	8	0.140	-	0.140
114	1A	0.320	-	0.320
114	1B	0.325	-	0.325
114	1C	0.405	-	0.405
114	2A	0.095	-	0.095
114	2B	0.065	-	0.065



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114	2C	0.095	-	0.095
114	2D	0.060	-	0.060
114	3A	0.205	-	0.205
114	3B	0.210	-	0.210
114	3C	0.285	-	0.285
114	3D	0.215	-	0.215
114	4A	0.195	-	0.195
114	4B	0.170	-	0.170
114	4C	0.170	-	0.170
114	5	0.790	-	0.790
114	6	0.865	-	0.865
115	1A	0.205	-	0.205
115	1B	0.410	-	0.410
115	1C	0.140	-	0.140
115	1D	0.960	-	0.960
115	1E	0.410	-	0.410
115	2A	0.155	-	0.155
115	2B	0.030	-	0.030
115	3	0.140	-	0.140
115	4	0.550	-	0.550
115	5	0.045	-	0.045
115	6	0.055	-	0.055
115	7	0.050	-	0.050
115	8	0.095	-	0.095
115	9	0.290	-	0.290
115	10	0.230	-	0.230
115	11	0.225	-	0.225
115	12	0.315	-	0.315
115		0.155	-	0.155



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115	13B1	0.070	-	0.070
115	13B2	0.055	-	0.055
115	13B4	0.155	-	0.155
115	13B3	0.065	-	0.065
115	14	0.025	-	0.025
115	15A	0.125	-	0.125
115	15B	0.125	-	0.125
115	15C	0.125	-	0.125
115	15D	0.130	-	0.130
115	16	0.020	-	0.020
116	1A	1.700	-	1.700
116	1B	0.975	-	0.975
116	2	0.055	-	0.055
116	3	0.075	-	0.075
116	4	0.115	-	0.115
116	5	0.085	-	0.085
116	6	0.115	-	0.115
116	7	0.135	-	0.135
116	8	0.095	-	0.095
116	9	-	0.140	0.140
117	1	0.125	-	0.125
117	2	0.135	-	0.135
117	3	0.120	-	0.120
117	4	0.100	-	0.100
117	5A	0.345	-	0.345
117	5B	0.360	-	0.360
117	5C	0.220	-	0.220
117	5D	0.260	-	0.260
117	5E	0.475	-	0.475



Jaya
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117	6	0.370	-	0.370
117	7	-	0.210	0.210
118	2	0.375	-	0.375
118	3A	0.405	-	0.405
118	3B	0.095	-	0.095
118	4	0.170	-	0.170
118	5	0.120	-	0.120
118	6	0.085	-	0.085
118	7	0.055	-	0.055
118	8	0.060	-	0.060
118	9	0.090	-	0.090
118	10	0.400	-	0.400
118	11	0.095	-	0.095
118	12	0.095	-	0.095
118	13	0.090	-	0.090
118	14	0.380	-	0.380
118	1	-	0.605	0.605
119	2A	1.135	-	1.135
119	2B	0.765	-	0.765
119	2C	0.920	-	0.920
119	3	0.095	-	0.095
119	4	0.160	-	0.160
119	5	0.050	-	0.050
119	6	0.035	-	0.035
119	1	-	0.520	0.520
120	1A	0.200	-	0.200
120	1B	0.755	-	0.755
120	1C	0.180	-	0.180
120	2	-	-	0.135



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120	3	0.480	-	0.480
120	4	0.230	-	0.230
120	5	0.060	-	0.060
120	6	0.110	-	0.110
120	7	0.135	-	0.135
121	1	0.930	-	0.930
121	2	0.085	-	0.085
121	3	0.375	-	0.375
121	4	0.385	-	0.385
121	5	0.220	-	0.220
121	6	0.090	-	0.090
121	7A	0.185	-	0.185
121	7B	0.840	-	0.840
121	8	0.310	-	0.310
121	9	0.475	-	0.475
122	1A	0.335	-	0.335
122	1B	0.375	-	0.375
122	2	0.680	-	0.680
123	1	0.285	-	0.285
123	2A	0.195	-	0.195
123	2B	0.295	-	0.295
123	2C	0.230	-	0.230
123	3	0.245	-	0.245
123	4	0.030	-	0.030
123	5	0.090	-	0.090
123	6	0.080	-	0.080
123	7	0.065	-	0.065
123	8	0.055	-	0.055
123	9	0.105	-	0.105



Jayan
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123	10A	0.070	-	0.070
123	10B	0.040	-	0.040
123	11	0.115	-	0.115
123	12A1	0.525	-	0.525
123	12A2	0.100	-	0.100
123	12B1	0.105	-	0.105
123	12B2	0.135	-	0.135
123	12B3	0.155	-	0.155
123	12C1	0.355	-	0.355
123	12C2	0.435	-	0.435
123	12C3	0.055	-	0.055
123	12C4	0.070	-	0.070
123	13A	0.060	-	0.060
123	13B	0.020	-	0.020
123	12C	0.110	-	0.110
123	14	0.320	-	0.320
124	1	0.705	-	0.705
124	2	0.095	-	0.095
124	3	0.125	-	0.125
124	4	0.300	-	0.300
124	5B1	0.415	-	0.415
124	5B2	0.150	-	0.150
124	6	0.240	-	0.240
124	7	0.280	-	0.280
124	8	0.075	-	0.075
124	9	0.015	-	0.015
124	10	0.045	-	0.045
124	5A3	-	0.045	0.045
125	1A1	0.220	-	0.220



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125	1A2	0.250	-	0.250
125	1B	0.665	-	0.665
125	2	0.180	-	0.180
125	3	0.150	-	0.150
125	4	0.650	-	0.650
125	5	0.155	-	0.155
125	6	0.300	-	0.300
125	7	0.305	-	0.305
125	8	0.025	-	0.025
126	1A	0.295	-	0.295
126	1B	0.120	-	0.120
126	2A	0.110	-	0.110
126	2B	0.085	-	0.085
126	3A	0.055	-	0.055
126	3B	0.050	-	0.050
126	3C	0.045	-	0.045
126	4	0.095	-	0.095
126	5	0.360	-	0.360
126	6	0.195	-	0.195
126	7	0.350	-	0.350
126	8A	0.225	-	0.225
126	8B	0.210	-	0.210
126	8C	0.030	-	0.030
126	9A	0.050	-	0.050
126	9B	0.070	-	0.070
127	1	0.200	-	0.200
127	2	0.085	-	0.085
127	3	0.030	-	0.030
127	4	0.075	-	0.075



Jayan
MEMBER SECRETARY
SEIAA-TN

127	5	0.035	-	0.035
127	6A1	0.070	-	0.070
127	6A2	0.460	-	0.460
127	6B	0.020	-	0.020
127	7	0.055	-	0.055
127	8	0.035	-	0.035
127	9	0.030	-	0.030
127	10	0.160	-	0.160
127	11	0.075	-	0.075
127	12A	0.105	-	0.105
127	12B	0.075	-	0.075
127	13	0.180	-	0.180
127	14	0.115	-	0.115
127	15	0.055	-	0.055
127	16A	0.215	-	0.215
127	16B	0.330	-	0.330
127	17	0.140	-	0.140
127	18	0.290	-	0.290
127	19	0.185	-	0.185
128	1A	0.895	-	0.895
128	1B	0.070	-	0.070
128	2A	0.135	-	0.135
128	2B1	0.130	-	0.130
128	2B2	0.115	-	0.115
128	2B3	0.105	-	0.105
128	2B4	0.090	-	0.090
128	3	0.545	-	0.545
128	4A	0.120	-	0.120
128	4B	0.085	-	0.085



Jayan
MEMBER SECRETARY
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128	6A	0.580	-	0.580
128	6B	0.055	-	0.055
128	7A	0.260	-	0.260
128	7B	0.285	-	0.285
128	7C	0.040	-	0.040
128	5	-	0.265	0.265
133	1	0.070	-	0.070
133	2	0.010	-	0.010
133	3	0.010	-	0.010
133	4	0.035	-	0.035
133	5	0.085	-	0.085
133	6	0.050	-	0.050
133	7	0.025	-	0.025
133	8	0.025	-	0.025
133	9	0.060	-	0.060
133	10	0.020	-	0.020
133	11	0.130	-	0.130
133	12	0.060	-	0.060
133	13	0.310	-	0.310
133	14	0.025	-	0.025
133	15A	0.090	-	0.090
133	15B	0.260	-	0.260
135	1A	0.020	-	0.020
135	1B	0.045	-	0.045
135	1C	0.010	-	0.010
135	2A	0.495	-	0.495
135	2B	0.150	-	0.150
135	4	0.315	-	0.315
135	5	-	-	0.225



Jagan
MEMBER SECRETARY
SEIAA-TN

135	6	1.540	-	1.540
135	7A	0.035	-	0.035
135	7B	0.065	-	0.065
135	7C	0.045	-	0.045
135	8A	0.055	-	0.055
135	8B	0.065	-	0.065
135	8C	0.015	-	0.015
135	8D	0.010	-	0.010
135	9	0.060	-	0.060
135	10	0.090	-	0.090
135	11A	0.075	-	0.075
135	11B	0.210	-	0.210
135	11C1	0.030	-	0.030
135	11C2	0.045	-	0.045
135	11D	0.140	-	0.140
135	12A	0.060	-	0.060
135	12B	0.060	-	0.060
135	13	-	0.015	0.015
135	3	-	0.050	0.050
137		-	0.455	0.455
138	1	0.045	-	0.045
138	2	0.055	-	0.055
138	3	0.115	-	0.115
138	4A1	0.060	-	0.060
138	4A2	0.070	-	0.070
138	4A3	0.055	-	0.055
138	4B	0.060	-	0.060
138	5	0.115	-	0.115
138	6	-	-	0.255



Jayan
MEMBER SECRETARY
SEIAA-TN

138	7	0.345	-	0.345
138	8	0.140	-	0.140
138	9	0.130	-	0.130
138	10	0.135	-	0.135
138	11	0.285	-	0.285
138	12	0.025	-	0.025
138	13	0.100	-	0.100
138	14A	0.055	-	0.055
138	14B	0.045	-	0.045
138	15	-	0.025	0.025
575	1	0.010	-	0.010
575	2A	0.030	-	0.030
575	2B	0.685	-	0.685
575	2C	0.005	-	0.005
575	3A	0.045	-	0.045
575	5	0.025	-	0.025
575	6B	0.245	-	0.245
575	8B	0.100	-	0.100
575	9	0.295	-	0.295
575	10	0.055	-	0.055
575	11	0.080	-	0.080
575	12	-	0.175	0.175
576	1	1.390	-	1.390
576	3	0.170	-	0.170
576	4A	0.100	-	0.100
576	4B	0.145	-	0.145
576	5	0.225	-	0.225
576	6A	0.240	-	0.240
576	6B	0.300	-	0.300



Jayan
MEMBER SECRETARY
SEIAA-TN

576	7	0.230	-	0.230
576	8A	0.120	-	0.120
576	8B	0.115	-	0.115
576	9	0.485	-	0.485
576	2	-	0.420	0.420
577	1	0.315	-	0.315
577	2A	0.380	-	0.380
577	2B	0.415	-	0.415
577	3A1A	0.020	-	0.020
577	3A1B	0.095	-	0.095
577	3A1C	0.165	-	0.165
577	3A1D	0.035	-	0.035
577	3B1A	0.740	-	0.740
577	3B1B	0.445	-	0.445
577	4A	0.280	-	0.280
577	4B	0.340	-	0.340
577	5A1	0.210	-	0.210
577	5A2	0.120	-	0.120
577	3A2	-	0.010	0.010
577	3B2	-	0.015	0.015
577	5B	-	0.015	0.015
580	1	1.205	-	1.205
580	2A	0.330	-	0.330
580	3A	0.135	-	0.135
580	4A	0.065	-	0.065
580	4C	0.080	-	0.080
580	2b	-	0.550	0.550
581	1A	0.050	-	0.050
581	1C	0.185	-	0.185



MEMBER SECRETARY
SEIAA-TN

581	1B	-	1.210	1.210
581	2B	0.115	-	0.115
581	3A	0.070	-	0.070
581	3C	0.045	-	0.045
581	4A	0.195	-	0.195
581	4C	0.060	-	0.060
581	5	0.950	-	0.950
	Total	234.18	4.96	239.14

Name of the Village: K. Periyappatty (N)

S.F. No	Sub Division	Dry (in Ha)	Poramboke (in Ha)	Total Extent (in Ha)
102	1A	0.120	-	0.120
102	1B	0.120	-	0.120
102	1C	0.225	-	0.225
102	1D	0.020	-	0.020
102	1E	0.065	-	0.065
102	1F	0.060	-	0.060
102	1G	0.035	-	0.035
102	1H	0.170	-	0.170
102	1I	0.145	-	0.145
102	1J	0.070	-	0.070
102	1K	0.205	-	0.205
102	1L	0.040	-	0.040
102	1M	0.055	-	0.055
102	1N	0.020	-	0.020
102	1O	0.085	-	0.085
102	1P	0.080	-	0.080
102	1Q	0.040	-	0.040



Jayan
MEMBER SECRETARY
SEIAA-TN

102	1R	0.120	-	0.120
102	2	0.315	-	0.315
102	3A	0.090	-	0.090
102	3B	0.190	-	0.190
102	3C	0.205	-	0.205
102	3D	0.305	-	0.305
102	3E	0.075	-	0.075
102	3F	0.115	-	0.115
102	3G	0.040	-	0.040
102	3H	0.010	-	0.010
102	3I	0.235	-	0.235
102	3J	0.110	-	0.110
102	3K	0.010	-	0.010
102	4A	0.115	-	0.115
102	4B	0.130	-	0.130
103	1A	0.195	-	0.195
103	1B	0.145	-	0.145
103	1C	0.145	-	0.145
103	2A	0.090	-	0.090
103	2B	0.010	-	0.010
103	3A	0.160	-	0.160
103	3B	1.585	-	1.585
103	3C	0.340	-	0.340
103	3D	0.250	-	0.250
103	3E	0.680	-	0.680
103	3F	0.045	-	0.045
103	3G	0.115	-	0.115
103	3H	0.175	-	0.175
103	3I	0.075	-	0.075



Jayar
MEMBER SECRETARY
SEIAA-TN

103	3J	0.020	-	0.020
103	3K	0.040	-	0.040
103	3L	0.105	-	0.105
104	1	0.355	-	0.355
104	2	0.135	-	0.135
104	3	0.055	-	0.055
104	4	0.050	-	0.050
104	5	0.050	-	0.050
104	6a	0.750	-	0.750
104	6b	1.235	-	1.235
104	7	0.105	-	0.105
104	8a	0.070	-	0.070
104	8b	0.070	-	0.070
104	9	0.135	-	0.135
104	10	1.155	-	1.155
105	1A1	0.065	-	0.065
105	1A2	0.415	-	0.415
105	1A3	0.420	-	0.420
105	1A4	0.065	-	0.065
105	1A5	0.020	-	0.020
105	1A6	0.050	-	0.050
105	1A7	0.010	-	0.010
105	1A8	0.010	-	0.010
105	1A9	0.040	-	0.040
105	1A10	0.040	-	0.040
105	1A11	0.020	-	0.020
105	1A12	0.030	-	0.030
105	1A13	0.045	-	0.045
105	1A14	0.010	-	0.010



Jeyan
MEMBER SECRETARY
SEIAA-TN

105	1A15	0.010	-	0.010
105	1B	0.125	-	0.125
105	2A	0.355	-	0.355
105	2B	0.080	-	0.080
105	2C	0.100	-	0.100
105	2D	0.080	-	0.080
105	2E	0.140	-	0.140
105	2F	0.050	-	0.050
105	2G	0.050	-	0.050
105	2H	0.050	-	0.050
105	2I	0.050	-	0.050
105	2J	0.050	-	0.050
105	2K	0.070	-	0.070
105	2L	0.120	-	0.120
105	2M	0.070	-	0.070
105	2N	0.045	-	0.045
105	2O	0.040	-	0.040
105	3	0.075	-	0.075
105	4	0.190	-	0.190
105	5A	0.020	-	0.020
105	5B	0.085	-	0.085
105	5C	0.090	-	0.090
105	6A	0.300	-	0.300
105	6B	0.055	-	0.055
105	6C	0.060	-	0.060
105	6D	0.090	-	0.090
105	6E	0.120	-	0.120
105	6F	0.065	-	0.065
105	6G		-	0.070



Jayen
MEMBER SECRETARY
SEIAA-TN

106	1A	0.040	-	0.040
106	1B	0.035	-	0.035
106	2A	0.195	-	0.195
106	2B	0.175	-	0.175
106	2C	0.020	-	0.020
106	2D	0.020	-	0.020
106	3	0.055	-	0.055
106	4	0.140	-	0.140
106	5	0.140	-	0.140
106	6	0.090	-	0.090
106	7A	0.065	-	0.065
106	7B	0.065	-	0.065
106	8	0.220	-	0.220
106	9A	0.070	-	0.070
106	9B	0.055	-	0.055
106	10	0.135	-	0.135
106	11	0.755	-	0.755
106	12	0.100	-	0.100
106	13	0.090	-	0.090
106	14	0.675	-	0.675
106	15	0.095	-	0.095
106	16	0.535	-	0.535
118	1	0.160	-	0.160
118	2	0.430	-	0.430
118	3	1.115	-	1.115
118	4	0.245	-	0.245
118	5	0.900	-	0.900
120	1	0.415	-	0.415
120	2	0.065	-	0.065



Jayan
MEMBER SECRETARY
SEIAA-TN

120	3	0.160	-	0.160
120	4	0.070	-	0.070
120	5A	0.100	-	0.100
120	5B	0.095	-	0.095
120	6	0.075	-	0.075
120	7	0.030	-	0.030
120	8	0.255	-	0.255
120	9	0.045	-	0.045
120	10A	0.220	-	0.220
120	10B	0.540	-	0.540
120	10C	0.485	-	0.485
120	11	0.270	-	0.270
120	12A	0.060	-	0.060
120	12B	0.030	-	0.030
120	12C	0.230	-	0.230
122	1A	0.275	-	0.275
122	1B	0.310	-	0.310
122	2	1.170	-	1.170
122	3	0.435	-	0.435
121	1	0.775	-	0.775
121	2A	0.025	-	0.025
121	2B	0.050	-	0.050
121	3A	0.260	-	0.260
121	3B	0.345	-	0.345
121	3C	0.110	-	0.110
121	3D	0.235	-	0.235
121	4	0.075	-	0.075
121	5	0.265	-	0.265
121	6	0.065	-	0.065



Tajam
MEMBER SECRETARY
SEIAA-TN

124	1	0.405	-	0.405
124	2	2.170	-	2.170
124	3A	0.520	-	0.520
124	3B	0.175	-	0.175
131	2	1.575	-	1.575
131	3	1.290	-	1.290
131	4	0.895	-	0.895
132	1	1.705	-	1.705
132	2	1.435	-	1.435
135	1	0.300	-	0.300
135	3	0.355	-	0.355
135	4	0.585	-	0.585
135	5	0.115	-	0.115
135	6	0.545	-	0.545
135	7	0.520	-	0.520
135	2	-	0.075	0.075
136	1	1.920	-	1.920
136	2	0.795	-	0.795
136	5	0.145	-	0.145
136	6	0.690	-	0.690
136	7	0.570	-	0.570
136	3	-	0.145	0.145
137	1	0.160	-	0.160
137	2	0.160	-	0.160
137	3	0.115	-	0.115
137	4	0.180	-	0.180
137	5	0.095	-	0.095
137	6A	0.135	-	0.135
137	6B	0.190	-	0.190



Jayan
MEMBER SECRETARY
SEIAA-TN

137	6C	0.150	-	0.150
137	6D	0.170	-	0.170
137	6E	0.160	-	0.160
137	6F	0.190	-	0.190
137	7A	0.135	-	0.135
137	7B	0.135	-	0.135
137	8A	0.110	-	0.110
137	8B	0.120	-	0.120
137	8C	0.210	-	0.210
137	8D	0.235	-	0.235
137	8E	0.105	-	0.105
137	8F	0.105	-	0.105
138	1A	0.300	-	0.300
138	1B	0.320	-	0.320
138	1C	0.190	-	0.190
138	1D	0.280	-	0.280
138	1E	0.060	-	0.060
138	1F	0.130	-	0.130
138	1G	0.110	-	0.110
138	1H	0.140	-	0.140
138	1I	0.180	-	0.180
138	2	0.330	-	0.330
138	3	0.155	-	0.155
138	3B	0.130	-	0.130
138	4A	0.095	-	0.095
138	4B	0.085	-	0.085
138	5	0.090	-	0.090
138	6	0.085	-	0.085
138	7		-	0.160



Jaya
MEMBER SECRETARY
SEIAA-TN

138	8	0.235	-	0.235
138	9	0.235	-	0.235
138	10	0.225	-	0.225
138	11	0.230	-	0.230
138	12	0.190	-	0.190
139	1	0.550	-	0.550
139	2	0.515	-	0.515
139	3	0.345	-	0.345
139	4	0.310	-	0.310
139	5	0.505	-	0.505
139	6	0.660	-	0.660
139	7	0.140	-	0.140
140	1	0.250	-	0.250
140	2	0.605	-	0.605
140	3A	1.155	-	1.155
140	3B	0.920	-	0.920
141	1	2.325	-	2.325
141	2	0.175	-	0.175
141	4	0.925	-	0.925
141	5	0.660	-	0.660
141	3	-	0.130	0.130
142	1	0.510	-	0.510
142	2	0.455	-	0.455
142	4	0.500	-	0.500
142	3	-	1.210	1.210
150	1	0.490	-	0.490
150	2	1.880	-	1.880
150	3	0.530	-	0.530
150	5	0.435	-	0.435



Jayaram
MEMBER SECRETARY
SEIAA-TN

150	4	-	0.245	0.245
151	1A	0.180	-	0.180
151	1B	0.170	-	0.170
151	1C	0.165	-	0.165
151	2A1	0.305	-	0.305
151	2A2	0.170	-	0.170
151	2A3	0.300	-	0.300
151	2A4	0.160	-	0.160
151	2A5	0.200	-	0.200
151	2B	0.405	-	0.405
151	2C1	0.160	-	0.160
151	2C2	0.525	-	0.525
151	2C3	0.140	-	0.140
151	2C4	0.290	-	0.290
151	3	0.340	-	0.340
152	1A	0.160	-	0.160
152	1B	0.195	-	0.195
152	2	0.135	-	0.135
152	3	0.135	-	0.135
152	4	0.115	-	0.115
152	5A	0.060	-	0.060
152	5B	0.080	-	0.080
152	6	1.005	-	1.005
152	7	0.220	-	0.220
152	8	0.230	-	0.230
152	9	0.225	-	0.225
152	10A	0.090	-	0.090
152	10B	0.235	-	0.235
152	11	0.200	-	0.200



Jaya
MEMBER SECRETARY
SEIAA-TN

152	12A	0.075	-	0.075
152	12B	0.090	-	0.090
152	13	0.070	-	0.070
152	14	0.530	-	0.530
153	1A	0.170	-	0.170
153	1B	0.160	-	0.160
153	2	0.100	-	0.100
153	3	0.115	-	0.115
153	4	0.090	-	0.090
153	5	0.090	-	0.090
153	6	0.380	-	0.380
153	7	0.415	-	0.415
153	8	0.095	-	0.095
153	9A	0.050	-	0.050
153	9B	0.060	-	0.060
153	10	0.185	-	0.185
153	11	0.175	-	0.175
153	12	0.105	-	0.105
153	13A	0.175	-	0.175
153	13B	0.160	-	0.160
153	14	0.065	-	0.065
153	15A	0.070	-	0.070
153	15B	0.295	-	0.295
153	16	0.095	-	0.095
153	17	0.400	-	0.400
154	1A	1.105	-	1.105
154	1B	0.380	-	0.380
154	1C	0.460	-	0.460
154	1D	0.460	-	0.460



Jagan
MEMBER SECRETARY
SEIAA-TN

154	1E	0.830	-	0.830
154	2	0.350	-	0.350
155	2A	0.310	-	0.310
155	2B	0.310	-	0.310
155	2C	0.305	-	0.305
155	3A1	0.405	-	0.405
155	3A2A	0.095	-	0.095
155	3A2C	0.095	-	0.095
155	3B	0.330	-	0.330
155	4A	0.205	-	0.205
155	4B	0.285	-	0.285
155	4C	0.380	-	0.380
155	1	-	1.360	1.360
156	1A1	0.130	-	0.130
156	1A2	0.130	-	0.130
156	1A3	0.130	-	0.130
156	1B	0.200	-	0.200
156	1C	0.055	-	0.055
156	2A	0.320	-	0.320
156	2B	0.060	-	0.060
156	2C	0.065	-	0.065
156	2D	0.075	-	0.075
156	2E	0.080	-	0.080
156	3	0.460	-	0.460
156	4A	0.170	-	0.170
156	4B	0.160	-	0.160
156	5A	0.320	-	0.320
156	5B	0.135	-	0.135
157	1	0.160	-	0.160



Jaya
MEMBER SECRETARY
SEIAA-TN

157	2	0.120	-	0.120
157	3	0.230	-	0.230
157	4A	0.070	-	0.070
157	4B	0.070	-	0.070
157	5	0.095	-	0.095
157	6A	0.090	-	0.090
157	6B	0.115	-	0.115
157	7	0.100	-	0.100
157	8	0.230	-	0.230
157	9	0.605	-	0.605
157	10	0.335	-	0.335
157	11	0.320	-	0.320
157	12	0.300	-	0.300
157	13	0.040	-	0.040
157	15	0.075	-	0.075
157	16	0.040	-	0.040
157	17	0.040	-	0.040
157	18	0.055	-	0.055
157	19	0.085	-	0.085
158	1A	0.030	-	0.030
158	1B	0.065	-	0.065
158	1C	0.015	-	0.015
158	2	0.065	-	0.065
158	3	0.070	-	0.070
158	4	0.090	-	0.090
158	5	0.090	-	0.090
158	6	0.105	-	0.105
158	7	0.130	-	0.130
158	8	0.080	-	0.080



Jayan
MEMBER SECRETARY
SEIAA-TN

158	9	0.220	-	0.220
158	10	0.140	-	0.140
158	11	0.090	-	0.090
158	12	0.115	-	0.115
158	13	0.155	-	0.155
158	14	0.160	-	0.160
158	15	0.115	-	0.115
158	16	0.055	-	0.055
158	17	0.115	-	0.115
158	18	0.040	-	0.040
158	19	0.025	-	0.025
160	1A	0.350	-	0.350
160	1B	0.150	-	0.150
160	1C1	1.710	-	1.710
160	1C2	0.100	-	0.100
160	1C3	0.185	-	0.185
160	1C4	0.070	-	0.070
160	1C5	0.120	-	0.120
160	2	0.260	-	0.260
160	3	0.115	-	0.115
160	4	0.300	-	0.300
160	5	0.170	-	0.170
160	6A1	0.040	-	0.040
160	6A2	0.150	-	0.150
160	6A3	0.180	-	0.180
160	6B	0.145	-	0.145
161	1	0.630	-	0.630
161	2	0.120	-	0.120
161	3	0.310	-	0.310



[Signature]
MEMBER SECRETARY
SEIAA-TN

161	4	0.605	-	0.605
161	5A	0.140	-	0.140
161	5B	0.145	-	0.145
161	5C	0.130	-	0.130
161	5D1	0.190	-	0.190
161	5D2	0.185	-	0.185
161	5D3	0.320	-	0.320
161	5D4	0.260	-	0.260
161	6	0.015	-	0.015
161	7A	0.160	-	0.160
161	7B	0.140	-	0.140
161	7C	0.150	-	0.150
162	1	0.265	-	0.265
162	2	0.095	-	0.095
162	3A1A	0.165	-	0.165
162	3A1B	0.165	-	0.165
162	3A1C	0.175	-	0.175
162	3A2	0.405	-	0.405
162	3A3A	0.200	-	0.200
162	3A3B	0.200	-	0.200
162	3A3C	0.260	-	0.260
162	3A3D	0.275	-	0.275
162	3A3E	0.290	-	0.290
162	3B1	0.265	-	0.265
162	3B2	0.245	-	0.245
162	4A	0.170	-	0.170
162	4B	0.400	-	0.400
162	4C	0.105	-	0.105
163	1A	0.260	-	0.260



Jayan
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163	1B1	0.110	-	0.110
163	1B2	0.140	-	0.140
163	1B3	0.145	-	0.145
163	2A	0.060	-	0.060
163	2B	0.050	-	0.050
163	2C	0.500	-	0.500
163	2D	0.080	-	0.080
163	2E	0.090	-	0.090
163	2F	0.490	-	0.490
163	2G	0.470	-	0.470
163	2H	0.100	-	0.100
163	2I	0.305	-	0.305
163	2J	0.090	-	0.090
163	2K	0.125	-	0.125
164	1A	0.245	-	0.245
164	1B	0.110	-	0.110
164	1C	0.120	-	0.120
164	1D	0.240	-	0.240
164	2A	0.140	-	0.140
164	2B	0.100	-	0.100
164	2C	0.365	-	0.365
164	2D	0.100	-	0.100
164	2E	0.345	-	0.345
164	2F	0.325	-	0.325
164	2G	0.365	-	0.365
164	2H1	0.250	-	0.250
164	2H2	0.250	-	0.250
164	2H3	0.135	-	0.135
165	1	0.310	-	0.310



Jayan
MEMBER SECRETARY
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165	2	0.290	-	0.290
165	3	0.120	-	0.120
165	4	0.135	-	0.135
165	5A	0.330	-	0.330
165	5B	0.050	-	0.050
165	5C	0.120	-	0.120
165	6A	0.245	-	0.245
165	6B	0.125	-	0.125
165	7A	0.290	-	0.290
165	7B	0.170	-	0.170
165	7C	0.080	-	0.080
165	7D	0.130	-	0.130
165	8	0.200	-	0.200
165	9	0.220	-	0.220
166	1A	0.130	-	0.130
166	1B	0.090	-	0.090
166	1C	0.070	-	0.070
166	2	0.415	-	0.415
166	3	0.190	-	0.190
166	4	0.185	-	0.185
166	5	0.185	-	0.185
166	6	0.095	-	0.095
166	7	0.390	-	0.390
166	8	0.105	-	0.105
166	9	0.095	-	0.095
166	10	0.510	-	0.510
166	11	0.110	-	0.110
166	12	0.160	-	0.160
166	13	0.120	-	0.120



Jayar
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166	14	0.080	-	0.080
166	15	0.065	-	0.065
167	1	0.780	-	0.780
167	2	0.820	-	0.820
167	3A	0.795	-	0.795
167	3B	0.705	-	0.705
167	4	0.220	-	0.220
167	5	0.235	-	0.235
170	1	0.130	-	0.130
170	2	0.045	-	0.045
170	3	0.040	-	0.040
170	4	0.350	-	0.350
170	5	0.165	-	0.165
170	6	0.125	-	0.125
170	7	0.145	-	0.145
170	8	0.075	-	0.075
170	9	0.075	-	0.075
170	10	0.080	-	0.080
170	11	0.080	-	0.080
170	12	0.145	-	0.145
170	13	0.140	-	0.140
170	14	0.090	-	0.090
170	15	0.030	-	0.030
170	16	0.030	-	0.030
170	17	0.400	-	0.400
170	18	0.250	-	0.250
170	19	0.365	-	0.365
170	20	0.030	-	0.030
170	21	0.040	-	0.040



Jaya
MEMBER SECRETARY
SEIAA-TN

170	22	0.250	-	0.250
170	23	0.055	-	0.055
171	1	0.090	-	0.090
171	2A	0.090	-	0.090
171	2B	0.080	-	0.080
171	2C	0.245	-	0.245
171	3	0.330	-	0.330
171	4A	0.090	-	0.090
171	4B	0.240	-	0.240
171	4C	0.065	-	0.065
171	5	0.075	-	0.075
171	6	0.215	-	0.215
171	7	0.110	-	0.110
171	8	0.130	-	0.130
171	9	0.065	-	0.065
171	10	0.075	-	0.075
171	11	0.065	-	0.065
171	12	0.065	-	0.065
171	13A	0.110	-	0.110
171	13B	0.115	-	0.115
172	1	0.075	-	0.075
172	2	0.075	-	0.075
172	3	0.075	-	0.075
172	4	0.095	-	0.095
172	5	0.050	-	0.050
172	6	0.055	-	0.055
172	7	0.180	-	0.180
172	8	0.060	-	0.060
172	9	0.090	-	0.090



Jayan
MEMBER SECRETARY
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172	10	0.075	-	0.075
172	11	0.110	-	0.110
172	12	0.100	-	0.100
172	13	0.075	-	0.075
172	14A	0.045	-	0.045
172	14B	0.035	-	0.035
172	15	0.240	-	0.240
172	16A	0.055	-	0.055
172	16B	0.040	-	0.040
173	1	0.065	-	0.065
173	2	0.310	-	0.310
173	3	0.095	-	0.095
173	4	0.100	-	0.100
173	5	0.100	-	0.100
173	6	0.130	-	0.130
173	7	0.130	-	0.130
173	8	0.130	-	0.130
173	9	0.195	-	0.195
173	10	0.180	-	0.180
173	11	0.135	-	0.135
173	12	0.325	-	0.325
173	13	0.245	-	0.245
173	14	0.335	-	0.335
173	15	0.170	-	0.170
173	16	0.130	-	0.130
173	17	0.220	-	0.220
173	18	0.175	-	0.175
173	19	0.010	-	0.010
173	20	0.010	-	0.010



Jayar
MEMBER SECRETARY
SEIAA-TN

174	1	0.095	-	0.095
174	2	0.045	-	0.045
174	3	0.120	-	0.120
174	4	0.035	-	0.035
174	5	0.035	-	0.035
174	6	0.090	-	0.090
174	7	0.040	-	0.040
174	8	0.145	-	0.145
174	9	0.080	-	0.080
174	10A	0.075	-	0.075
174	10B	0.100	-	0.100
174	11	0.055	-	0.055
174	12	0.055	-	0.055
174	13	0.320	-	0.320
174	14	0.160	-	0.160
174	15	0.135	-	0.135
174	16	0.265	-	0.265
174	17	0.105	-	0.105
174	18	0.075	-	0.075
174	19	0.075	-	0.075
174	20	0.080	-	0.080
175	1	0.035	-	0.035
175	2	0.075	-	0.075
175	3	0.040	-	0.040
175	4	0.035	-	0.035
175	5A	0.095	-	0.095
175	5B	0.055	-	0.055
175	6	0.085	-	0.085
175	7	0.115	-	0.115



Taya
MEMBER SECRETARY
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175	8	0.030	-	0.030
175	9	0.020	-	0.020
175	10	0.015	-	0.015
175	11	0.020	-	0.020
175	12	0.015	-	0.015
175	13	0.020	-	0.020
175	14	0.025	-	0.025
175	15	0.045	-	0.045
175	16	0.045	-	0.045
175	17	0.090	-	0.090
176	1	0.120	-	0.120
176	2	0.065	-	0.065
176	3	0.065	-	0.065
176	4A	0.060	-	0.060
176	4B	0.055	-	0.055
176	5	0.150	-	0.150
176	6	0.060	-	0.060
176	7	0.065	-	0.065
176	8	0.120	-	0.120
176	9	0.035	-	0.035
176	10A	0.065	-	0.065
176	10B	0.030	-	0.030
176	11	0.150	-	0.150
176	12	0.060	-	0.060
176	13	0.090	-	0.090
176	14A	0.035	-	0.035
176	14B	0.105	-	0.105
176	15	0.030	-	0.030
176	16A	0.050	-	0.050



Jaya
MEMBER SECRETARY
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176	16B	0.040	-	0.040
176	16C	0.050	-	0.050
176	17A	0.050	-	0.050
176	17B	0.050	-	0.050
176	17C	0.065	-	0.065
180	1A	0.060	-	0.060
180	1B	0.045	-	0.045
180	2	0.070	-	0.070
180	3	0.110	-	0.110
180	4	0.135	-	0.135
180	5	0.110	-	0.110
180	6	0.055	-	0.055
180	7	0.045	-	0.045
180	8	0.050	-	0.050
180	9	0.075	-	0.075
180	10	0.075	-	0.075
180	11	0.075	-	0.075
180	12	0.075	-	0.075
180	13	0.250	-	0.250
180	14	0.025	-	0.025
180	15	0.025	-	0.025
180	16	0.055	-	0.055
180	17	0.025	-	0.025
180	18	0.075	-	0.075
180	19	0.050	-	0.050
180	20	0.050	-	0.050
180	21	0.050	-	0.050
180	22	0.060	-	0.060
182	1	0.485	-	0.485



Tanya
MEMBER SECRETARY
SEIAA-TN

182	2	0.040	-	0.040
182	3	0.045	-	0.045
182	5	0.355	-	0.355
182	6	0.085	-	0.085
182	7	0.080	-	0.080
182	8	0.175	-	0.175
182	9	0.140	-	0.140
182	10	0.125	-	0.125
182	11	0.300	-	0.300
182	12	0.195	-	0.195
182	13	0.065	-	0.065
182	14	0.065	-	0.065
182	15	0.065	-	0.065
182	16	0.140	-	0.140
183	1	0.055	-	0.055
183	2	0.050	-	0.050
183	3	0.130	-	0.130
183	4	1.275	-	1.275
183	5	-	0.045	0.045
183	6	-	0.315	0.315
184	1	0.640	-	0.640
184	2	0.340	-	0.340
184	3	0.325	-	0.325
184	4	0.225	-	0.225
184	5	0.210	-	0.210
184	6	0.110	-	0.110
184	7	0.105	-	0.105
184	8	0.055	-	0.055
184	9	0.675	-	0.675



Jayam
MEMBER SECRETARY
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184	10	-	0.145	0.145
185	1	0.065	-	0.065
185	2	0.065	-	0.065
185	3A	0.145	-	0.145
185	3B	0.950	-	0.950
185	4	0.130	-	0.130
185	5A	0.190	-	0.190
185	5B	0.285	-	0.285
185	6A	0.190	-	0.190
185	6B	0.290	-	0.290
185	7A	0.060	-	0.060
185	7B	0.060	-	0.060
185	7C	0.050	-	0.050
185	8A	0.045	-	0.045
185	8B	0.035	-	0.035
185	9	0.140	-	0.140
185	10A	0.555	-	0.555
185	10B	0.025	-	0.025
185	10C	0.180	-	0.180
185	11A	0.040	-	0.040
185	11B	0.030	-	0.030
185	11C	0.070	-	0.070
185	12A	0.065	-	0.065
185	12B	0.055	-	0.055
185	12C	0.065	-	0.065
185	13	1.385	-	1.385
186	1	0.130	-	0.130
186	2	0.075	-	0.075
186	3	0.075	-	0.075



Jayan
MEMBER SECRETARY
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186	4A	0.220	-	0.220
186	4B	0.160	-	0.160
186	5	0.160	-	0.160
186	6	0.090	-	0.090
186	7	0.095	-	0.095
186	8	0.055	-	0.055
186	9	0.160	-	0.160
186	10	0.050	-	0.050
186	11A	0.020	-	0.020
186	11B	0.030	-	0.030
186	12	0.090	-	0.090
186	13A	0.045	-	0.045
186	13B	0.050	-	0.050
186	15A	0.140	-	0.140
186	15B	0.040	-	0.040
186	16	0.095	-	0.095
186	17	0.090	-	0.090
186	18	0.105	-	0.105
186	19A	0.035	-	0.035
186	19B	0.030	-	0.030
187	1	0.095	-	0.095
187	2	0.140	-	0.140
187	3	0.120	-	0.120
187	4A	0.050	-	0.050
187	4B	0.070	-	0.070
187	5A	0.025	-	0.025
187	5B	0.025	-	0.025
187	6A	0.025	-	0.025
187	6B	0.030	-	0.030



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187	7A	0.050	-	0.050
187	7B	0.045	-	0.045
187	8	0.070	-	0.070
187	9A	0.015	-	0.015
187	9B	0.120	-	0.120
187	10	0.115	-	0.115
187	11	0.160	-	0.160
187	12	0.190	-	0.190
187	13	0.145	-	0.145
187	14	0.060	-	0.060
187	15	0.030	-	0.030
187	16	0.035	-	0.035
187	17	0.180	-	0.180
187	19A	0.070	-	0.070
187	19B	0.070	-	0.070
187	19C	0.040	-	0.040
187	19D	0.100	-	0.100
187	19E	0.040	-	0.040
187	19F	0.100	-	0.100
187	19G	0.550	-	0.550
187	18	0.110	-	0.110
	Total	152.980	3.670	156.650

Name of the Village: Chathirapatty

S.F. No	Sub Division	Dry (in Ha)	Poramboke (in Ha)	Total Extent (in Ha)
20	1	0.710	-	0.710
20	2A	0.105	-	0.105
20	2B		-	0.105



Jagan
MEMBER SECRETARY
SEIAA-TN

20	3A	0.160	-	0.160
20	3B	0.160	-	0.160
20	3C	0.050	-	0.050
20	3D	0.050	-	0.050
20	4	0.450	-	0.450
20	5	0.060	-	0.060
20	6	0.060	-	0.060
20	7	0.030	-	0.030
20	8	0.080	-	0.080
20	9	0.060	-	0.060
20	10	0.200	-	0.200
20	11	0.030	-	0.030
20	12	0.030	-	0.030
20	13A	0.060	-	0.060
20	13B	0.060	-	0.060
20	14	0.110	-	0.110
20	15A	0.050	-	0.050
20	15B	0.050	-	0.050
20	16	0.040	-	0.040
20	17	0.080	-	0.080
20	18A	0.250	-	0.250
20	18B	0.260	-	0.260
20	18C	0.310	-	0.310
20	19	0.140	-	0.140
20	20	0.120	-	0.120
20	21A	0.080	-	0.080
20	21B	0.080	-	0.080
24	1	0.250	-	0.250
24	2	0.070	-	0.070



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24	3	0.160	-	0.160
24	4	0.100	-	0.100
24	5A	0.060	-	0.060
24	5B	0.060	-	0.060
24	6	0.040	-	0.040
24	7A	0.160	-	0.160
24	7B	0.120	-	0.120
24	7C	0.080	-	0.080
24	7D	0.060	-	0.060
24	8	0.080	-	0.080
24	9	0.080	-	0.080
24	10	0.090	-	0.090
24	11	0.140	-	0.140
24	12A	0.115	-	0.115
24	12B	0.115	-	0.115
24	13	0.180	-	0.180
24	14	0.180	-	0.180
24	15A	0.090	-	0.090
24	15B	0.060	-	0.060
24	16	0.070	-	0.070
24	17	0.060	-	0.060
24	18	0.110	-	0.110
24	19A	0.090	-	0.090
24	19B	0.070	-	0.070
24	20A	0.030	-	0.030
24	20B	0.030	-	0.030
24	21	0.030	-	0.030
24	22A	0.075	-	0.075
24	22B	0.075	-	0.075



Jayan
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SEIAA-TN

24	22C	0.080	-	0.080
25	1	0.120	-	0.120
25	2	0.140	-	0.140
25	3	0.070	-	0.070
25	4	0.080	-	0.080
25	5	0.060	-	0.060
25	6	0.190	-	0.190
25	7	0.140	-	0.140
25	8	0.450	-	0.450
25	9	0.580	-	0.580
25	10	0.510	-	0.510
25	11	0.570	-	0.570
25	12A	0.220	-	0.220
25	12B	0.240	-	0.240
25	13	-	0.010	0.010
29	3	0.100	-	0.100
29	4	0.100	-	0.100
29	6	0.050	-	0.050
29	7	0.060	-	0.060
29	8A	0.135	-	0.135
29	8B	0.125	-	0.125
29	9	0.090	-	0.090
29	10	0.040	-	0.040
29	11	0.110	-	0.110
29	12	0.180	-	0.180
29	13	0.140	-	0.140
29	14	0.100	-	0.100
29	15	0.080	-	0.080
29	16	0.180	-	0.180



Jaya
MEMBER SECRETARY
SEIAA-TN

29	17A	0.095	-	0.095
29	17B	0.105	-	0.105
29	18	0.200	-	0.200
29	19	-	0.120	0.120
30	2	0.050	-	0.050
30	3	0.060	-	0.060
30	4	0.240	-	0.240
30	5	0.170	-	0.170
30	6	0.115	-	0.115
30	7A	0.085	-	0.085
30	7B	0.030	-	0.030
30	8A	0.045	-	0.045
30	8B	0.080	-	0.080
30	9	0.125	-	0.125
30	10	0.080	-	0.080
30	11	0.080	-	0.080
30	12A	0.035	-	0.035
30	12B	0.040	-	0.040
30	13	0.170	-	0.170
30	14	0.130	-	0.130
30	15	0.130	-	0.130
30	16A	0.040	-	0.040
30	16B	0.040	-	0.040
30	17A	0.045	-	0.045
30	17B	0.045	-	0.045
30	1	-	0.090	0.090
34	1	0.090	-	0.090
34	2A	0.085	-	0.085
34	2B	0.040	-	0.040



Jayan
MEMBER SECRETARY
SEIAA-TN

34	2C	0.160	-	0.160
34	2D	0.215	-	0.215
34	2E	0.070	-	0.070
34	2F	0.070	-	0.070
34	4A	0.100	-	0.100
34	4B	0.100	-	0.100
34	5	0.115	-	0.115
34	6	0.110	-	0.110
34	7	0.110	-	0.110
34	8	0.250	-	0.250
34	9	0.260	-	0.260
34	10A	0.105	-	0.105
34	10B	0.105	-	0.105
34	11	0.340	-	0.340
34	3	-	0.080	0.080
35	1	0.175	-	0.175
35	2	0.050	-	0.050
35	3	0.050	-	0.050
35	4	0.070	-	0.070
35	5	0.120	-	0.120
35	6	0.050	-	0.050
35	7	0.075	-	0.075
35	8	0.085	-	0.085
35	9	0.075	-	0.075
35	10	0.080	-	0.080
35	11	0.070	-	0.070
35	12A	0.040	-	0.040
35	12B	0.040	-	0.040
35	12C	0.025	-	0.025



Jaym
MEMBER SECRETARY
SEIAA-TN

35	12D	0.030	-	0.030
35	13	0.055	-	0.055
35	14A	0.025	-	0.025
35	14B	0.070	-	0.070
35	15	0.035	-	0.035
35	16	0.090	-	0.090
35	17	-	0.155	0.155
36	1	0.020	-	0.020
36	2	0.060	-	0.060
36	3	0.140	-	0.140
36	4A	0.055	-	0.055
36	4B	0.045	-	0.045
36	5	0.090	-	0.090
36	6	0.060	-	0.060
36	7	0.110	-	0.110
36	8A	0.050	-	0.050
36	8B	0.090	-	0.090
36	8C	0.030	-	0.030
36	8D	0.050	-	0.050
36	8E	0.050	-	0.050
36	8F	0.040	-	0.040
36	9A	0.030	-	0.030
36	9B	0.040	-	0.040
36	9C	0.110	-	0.110
36	10	0.100	-	0.100
36	11A	0.045	-	0.045
36	11B	0.035	-	0.035
36	12	0.030	-	0.030
36	13	0.070	-	0.070



Jayaram
MEMBER SECRETARY
SEIAA-TN

36	14	0.060	-	0.060
36	15	0.060	-	0.060
36	16A	0.030	-	0.030
36	16B	0.030	-	0.030
36	17	0.060	-	0.060
36	18A	0.050	-	0.050
36	18B	0.050	-	0.050
36	19A	0.110	-	0.110
36	19B	0.100	-	0.100
36	20	-	0.080	0.080
39	1A	0.090	-	0.090
39	1B	0.060	-	0.060
39	1C	0.060	-	0.060
39	1D	0.055	-	0.055
39	1E	0.050	-	0.050
39	1F	0.155	-	0.155
39	2	0.120	-	0.120
39	3	0.100	-	0.100
39	4	0.060	-	0.060
39	5A	0.055	-	0.055
39	5B	0.035	-	0.035
39	6A	0.020	-	0.020
39	6B	0.020	-	0.020
39	7	0.045	-	0.045
39	8A	0.125	-	0.125
39	8B	0.115	-	0.115
39	9	0.080	-	0.080
39	10	0.140	-	0.140
39	11	0.290	-	0.290



Jayn
MEMBER SECRETARY
SEIAA-TN

39	12A	0.055	-	0.055
39	12B	0.050	-	0.050
39	14A	0.065	-	0.065
39	14B	0.030	-	0.030
39	15	0.120	-	0.120
39	16	0.365	-	0.365
39	17	0.255	-	0.255
39	13	-	0.190	0.190
39	18	-	0.300	0.300
39	19	-	0.190	0.190
31	2	0.110	-	0.110
31	3	0.180	-	0.180
31	4	0.610	-	0.610
31	5A	0.150	-	0.150
31	5B	0.150	-	0.150
31	6	0.100	-	0.100
31	7	0.060	-	0.060
31	8	0.200	-	0.200
31	9	0.100	-	0.100
31	10	0.100	-	0.100
31	11	0.100	-	0.100
31	12	0.110	-	0.110
31	13	0.060	-	0.060
31	14	0.320	-	0.320
31	15A	0.170	-	0.170
31	15B	0.270	-	0.270
31	16	0.130	-	0.130
31	17	0.130	-	0.130
31	18	0.130	-	0.130



Tayy
MEMBER SECRETARY
SEIAA-TN

31	19	0.100	-	0.100
31	20	0.260	-	0.260
31	1	-	0.150	0.150
32	2A	0.370	-	0.370
32	2B	0.180	-	0.180
32	2C	0.170	-	0.170
32	3A	0.230	-	0.230
32	3B	0.240	-	0.240
32	4	0.410	-	0.410
32	5A	0.110	-	0.110
32	5B	0.110	-	0.110
32	6	0.210	-	0.210
32	1	-	0.050	0.050
33	1	0.410	-	0.410
33	2	0.130	-	0.130
33	3	0.360	-	0.360
33	4	0.170	-	0.170
33	5	0.340	-	0.340
33	6A	0.140	-	0.140
33	6B	0.140	-	0.140
33	6C	0.140	-	0.140
33	6D	0.810	-	0.810
33	7	0.110	-	0.110
33	8	0.120	-	0.120
33	9A	0.120	-	0.120
33	9B	0.130	-	0.130
33	10A	0.105	-	0.105
33	10B	0.045	-	0.045
33	11	-	-	0.120



Jaya
MEMBER SECRETARY
SEIAA-TN

33	12	0.400	-	0.400
33	14A	0.125	-	0.125
33	14B	0.020	-	0.020
33	14C	0.020	-	0.020
33	13	-	0.030	0.030
37	1	0.120	-	0.120
37	2	0.120	-	0.120
37	3	0.220	-	0.220
37	4	0.160	-	0.160
37	5	0.080	-	0.080
37	6	0.280	-	0.280
37	7	0.095	-	0.095
37	8	0.540	-	0.540
37	9	0.300	-	0.300
37	10	0.075	-	0.075
37	11	0.160	-	0.160
37	13	0.320	-	0.320
37	14	0.070	-	0.070
37	15	0.060	-	0.060
37	16	0.140	-	0.140
s37	17	0.140	-	0.140
37	18	0.130	-	0.130
37	12	-	0.080	0.080
38	1	0.630	-	0.630
38	2	0.110	-	0.110
38	3	0.100	-	0.100
38	4	0.160	-	0.160
38	5A	0.140	-	0.140
38	5B	0.140	-	0.140



Jagan
MEMBER SECRETARY
SEIAA-TN

38	6A	0.075	-	0.075
38	6B	0.045	-	0.045
38	6C	0.065	-	0.065
38	6D	0.075	-	0.075
38	7A	0.040	-	0.040
38	7B	0.030	-	0.030
38	7C	0.080	-	0.080
38	8	0.570	-	0.570
38	9	1.220	-	1.220
38	10	0.280	-	0.280
38	11	0.160	-	0.160
	Total	38.740	1.525	40.265


MEMBER SECRETARY
SEIAA-TN





SIPCOT

Annexure - 2

P-III/EC/I/27207/2023/MPI

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, Manaparai - Environmental Statement for the
Financial Year ending 31st March 2023 - Submitted - Reg.

Ref: SEIAA Lr. No. SEIAA-TN/F.6496/EC/8(b)/680/2019 dated 27.11.2019

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 Kannudaiyanpatti,
K.Periyapatti (N) and Chattirapatty Villages in Manaparai Taluk, Tiruchirapalli
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



TAMILNADU POLLUTION CONTROL BOARD

M/s.SIPCOT INDUSTRIAL PARK AT MANAPARAI,
STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LIMITED (SIPCOT)
19-A, RUKMANI LAKSHMIPATHY ROAD,
EGMORE, CHENNAI - 600 008.,
Pin: 600008

Copy to:

1. The Commissioner, MANAPPARAI-Panchayat Union, Manappaarai Taluk, Thiruchirapalli District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THIRUCHIRAPALLI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Tiruchirappalli.
4. File





TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS

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

G. Gopalakrishnan

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

Digitally signed by G. Gopalakrishnan,
DN: cn=Gopalakrishnan, o=Tamil Nadu Pollution Control Board, email=gopal@tncb.gov.in,
c=IN



TAMILNADU POLLUTION CONTROL BOARD

SIPCOT INDUSTRIAL PARK, MANAPARAI

Village Wise Survey Nos. Details

Kannudaiyanpatty:

Patta Land:

**S.F.No.16/1,2A,2B,3,4,5,6,7,8,9,17/1,2,3A,3B,4,5A,5B,6,7,8,9A,9B,10,18/1A,1
B1,1B2,2,3,4,5,6,7,8,21/1,2,3,4,5A,5B,6,22/1,2,3,30/1,2A,2B,2C,2D,2E,2F,2G,2
H,31/1,2,3,4,5,6,7,8,9,10,11,12,32/1,2A,2B,3,4,33/1,2A,2B,3,4,5A,5B,5C,6,7,3
4/1,2,3,4,5,6,7A,7B,8,35/1,2,3,4,5,6,7,8,9,10,11,36/1,2,3,4,5,6A,6B,7,38/1,2A
,2B,3A1,3A2,5,41/1,2,3A1,3A2,3B,4,5,6,7,8,9,10,11A1,11B,42/1,2,43/1,2,3,4,4
4/1,2,3,46/1,2A,2B,2C,2D,3,4,5,6,7,8,9A,9B,47/2,3,4,5,6,7A,7B,8A,8B,9,48/1,
2,3,4A,,4B,5A,5B,6,7,8,9,10,53/1A,1B,1C,2A,2B,3,4,5,6A,6B,7A,7B,8A,8B,8C,9A,
9B,10,82/1,2,3A,3B,4,5,6,7,8A,8B,9A,9B,9C,9D,9E,10,11A,11B,12A,12B,13,83/1,
2,3A,3B,4,5,6,7,84/1A,1B,1C,1D,1E,2,3,4,5,6,7,85/1A,1B,2,3,4,5A,5B,5C,6,7,8,9
A,9B,9C,9D,88/1A,1B,2,3A,3B,4A,4B,5,6A1A,6A1B,6A2,6B1,6B2,6B3,6B4,7,8,9,10
A,10B,11,12,13,14A,14B,15A,15B,89/1A,1B,2A,2B,2C,3A,3B,3C,4A,4B,5,6,7,8A,8
B,9,10,11,90/1,2A,2B,3,4,5A,5B,6A,6B,6C,7,8,9A,9B,10A,10B,11A,11B,11C,94/1
A,1B,1C,1D,1E,1F,1G,1H,1I,2,3A,3B,3C,4,5A,5B,5C,6A,6B,7A,7B,7C,8A,8B,8C,9,10
A,10B,11A,11B,11C,12A,12B,13A,13B,14,15,16,95/1,2A,2B,2C,2D,2E,2F,2G,2H,2I
,2J,2K,2L,2M,2N,96/1A,1B,1C,1D,1E,1F,1G,1H,2,3,97/1,2,3,4,5,6,7,8,9,98/1,2,3
,4,5,6,7,8,9,10,11,12,13A,13B,13C,99/1,2,3A,3B,3C,4A,4B,4C,5,6,7,8,9,10A,10B,
11A,11B,11C,11D,100/1,2,3,4A,4B,4C,5,6,7,101,102/1A,1B,1C,2,3,4A,4B,5A,5B
,6A,6B,7,8,9,10,11,12,103/1,2,3,4,104/1,2,3A1,3A2,3B,4A,4B,5,6,105/1,2,3,4,
5,6,7,8,9,10,11,106/1,2A,2B,2C,2D,3A,3B,3C,4,5,107/1A,1B,1C,1D,2A,2B,2C,3A
,3B,3C,3E,3D,4,5,6,7A,7B,7C,108/1A,1B,1C,2,3,4A,4B,5,6,7,8,9A,9B,10A,10B,10
9/1A,1B,1C,1D,1E,1F,1G,1H,1I,1J,1K,2A,2B,2C,2D,2E,110/1,2,3A,3B,4,5A,5B,6,1
11/1,2,3,4,5,6A,6B,7,8,9A,9B,10,11,12A,12B,13A,13B,112/1,2,3,4,5A,5B,5C,6,7,
8A,8B,9,10A,10B,11A,11B,12,13A,13B,14A,14B,15,16,113/1,2,3,4,5A,5B,6,7,7B,8
,114/1A,1B,1C,2A,2B,2C,2D,3A,3B,3C,3D,4A,4B,4C,5,6,115/1A,1B,1C,1D,1E,2A,
2B,3,4,5,6,7,8,9,10,11,12,13A,13B1,13B2,13B3,13B4,14,15A,15B,15C,15D,16,116
/1A,1B,2,3,4,5,6,7,8,117/1,2,3,4,5A,5B,5,5D,5E,6,118/2,3A,3B,4,5,6,7,8,9,10,1**



TAMILNADU POLLUTION CONTROL BOARD

1,12,13,14,**119/2A,2B,2C,3,4,5,6,120/1A,1B,1C,2,3,4,5,6,7,121/1,2,3,4,5,6,7A,7B,8,9,122/1A,1B,2,123/1,2A,2B,2C,3,4,5,6,7,8,9,10A,10B,11,12A1,12A2,12B1,12B2,12B3,12C1,12C2,12C3,12C4,13A,13B,13C,14,124/1,2,3,4,5B1,5B2,6,7,8,9,10,125/1A1,1A2,1B,2,3,4,5,6,7,8,126/1A,1B,2A,2B,3A,3B,3C,4,5,6,7,8A,8B,8C,9A,9B,127/1,2,3,4,5,6A1,6A2,6B,7,8,9,10,11,12A,12B,13,14,15,16A,16B,17,18,19,128/1A,1B,2A,2B1,2B2,2B3,2B4,3,4A,4B,6A,6B,7A,7B,7C,133/1,2,3,4,5,6,7,8,9,10,11,12,13,14,15A,15B,135/1A,1B,1C,2A,2B,4,5,6,7A,7B,7C,8A,8B,8C,8D,9,10,11A,11B,11C1,11C2,11D,12A,12B,138/1,2,3,4A1,4A2,4A3,4B,5,6,7,8,9,10,11,12,13,14A,14B,575/1,2A,2B,2C,3A,5,6B,8B,9,10,11,576/1,3,4A,4B,5,6A,6B,7,8A,8B,9,577/1,2A,2B,3A1A,3A1B,3A1C,3A1D,3B1A,3B1B,4A,4B,5A1,5A2A,580/1,2A,3A,4A,4C,581/1A,1C,1B,2B,3A,3C,4A,4C,5.**

Poramboke Land:

S.F.No.47/1,53/11,116/9,117/7,118/1,128/5,124/5A3,135/13,3,137,138/15, ,575/12,576/2,577/3A2,3B2,5B,580/2B,581/1B.

K.Periyapatty:

Patta Land:

S.F.No.102/1A,1B,1C,1D,1E,1F,1G,1H,1I,1J,1K,1L,1M,1N,1O,1P,1Q,1R,2,3A,3B,3C,3D,3E,3F,3G,3H,3I,3J,3K,4A,4B,103/1A,1B,1C,2A,2B,3A,3B,3C,3D,3E,3F,3G,3H,3I,3J,3K,3L,104/1,2,3,4,5,6A,6B,7,8A,8B,9,10,105/1A1,1A2,1A3,1A4,A5,1A6,1A7,1A8,1A9,1A10,1A11,1A12,1A13,1A14,1A15,1B,2A,2B,2C,2D,2E,2F,2G,2H,2I,2J,2K,2L,2M,2N,2O,3,4,5A,5B,5C,6A,6B,6C,6D,6E,6F,6G,106/1A,1B,2A,2B,2C,2D,3,4,5,6,7A,7B,8,9A,9B,10,11,12,13,14,15,16,118/1,2,3,4,5,120/1,2,3,4,5A,5B,6,7,8,9,10A,10B,10C,11,12A,12B,12C,122/1A,1B,2,3,121/1,2A,2B,3A,3B,3C,3D,4,5,6,124/1,2,3A,3B,131/2,3,4,132/1,2,135/1,3,4,5,6,7,136/1,2,5,6,7,137/1,2,3,4,5,6A,6B,6C,6D,6E,6F,7A,7B,8A,8B,8C,8D,8E,8F,138/1A,1B,1C,1D,1E,1F,1G,1H,1I,2,3,3B,4A,4B,5,6,7,8,9,10,11,12,139/1,2,3,4,5,6,7,140/1,2,3A,3B,141/1,2,4,5,142/1,2,4,150/1,2,3,5,151/1A,1B,1C,2A1,2A2,2A3,2A4,2A5,2B,2C1,2C2,2C3,2C4,3,152/1A,1B,2,3,4,5A,5B,6,7,8,9,10A,10B,11,12A,12B,13,14,153/1A,1B,2,3,4,5,6,7,8,9A,9B,10,11,12,13A,13B,14,15A,15B,16,17,154/1A,1B,1C,1D,1E,2,155/2



TAMILNADU POLLUTION CONTROL BOARD

A,2B,2C,3A1,3A,3A2C,3B,4A,4B,4C,156/1A1,1A2,1A3,1B,1C,2A,2B,2C,2D,2E,3,4A,4B,5A,5B,157/1,2,3,4A,4B,5,6A,6B,7,8,9,10,11,12,13,15,16,17,18,19,158/1A,1B,1C,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,160/1A,1B,1C1,1C2,1C3,1C4,1C5,2,3,4,5,6A1,6A2,6A3,6B,161/1,2,3,4,5A,5B,5C,5D1,5D2,5D3,5D4,6,7A,7B,7C,162/1,2,3A1A,3A1B,3A1C,3A2,3A3A,3A3B,3A3C,3A3D,3A3E,3B1,3B2,4A,4B,4C,163/1A,1B1,1B2,1B3,2A,2B,2C,2D,2E,2F,2G,2H,2I,2J,2K,164/1A,1B,1C,1D,2A,2B,2C,2D,2E,2F,2G,2H1,2H2,2H3,165/1,2,3,4,5A,5B,5C,6A,6B,7A,7B,7C,7D,8,9,166/1A,1B,1C,2,3,4,5,6,7,8,9,10,11,12,13,14,15,167/1,2,3A,3B,4,5,170/1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,171/1,2A,2B,2C,3,4A,4B,4C,5,6,7,8,9,10,11,12,13A,13B,172/1,2,3,4,5,6,7,8,9,10,11,12,13,14A,14B,15,16A,16B,173/1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,174/1,2,3,4,5,6,7,8,9,10A,10B,11,12,13,14,15,16,17,18,19,20,175/1,2,3,4,5A,5B,6,7,8,9,10,11,12,13,14,15,16,17,176/1,2,3,4A,4B,5,6,7,8,9,10A,10B,11,12,13,14A,14B,15,16A,16B,16C,17A,17B,17C,180/1A,1B,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,182/1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,183/1,2,3,4,184/1,2,3,4,5,6,7,8,9,185/1,2,3A,3B,4,5A,5B,6A,6B,7A,7B,7C,8A,8B,9,10A,10B,10C,11A,11B,11C,12A,12B,12C,13,186/1,2,3,4A,4B,5,6,7,8,9,10,11A,11B,12,13A,13B,15A,15B,16,17,18,19A,19B,187/1,2,3,4A,4B,5A,5B,6A,6B,7A,7B,8,9A,9B,10,11,12,13,14,15,16,17,19A,19B,19C,19D,19E,19F,19G,18.

Poramboke Land:

S.F.No. 135/2,136/3,141/3,142/3,150/4,155/1,183/5,6,184/10.

Chathirapatty:

Patta Land:

S.F.No.20/1,2A,2B,3A,3B,3C,3D,4,5,6,7,8,9,10,11,12,13A,13B,14,15A,15B,16,17,18A,18B,18C,19,20,21A,21B,24/1,2,3,4,5A,5B,6,7A,7B,7C,7D,8,9,10,11,12A,12B,13,14,15A,15B,16,17,18,19A,19B,20A,20B,21,22A,22B,22C,25/1,2,3,4,5,6,7,8,9,10,11,12A,12B,29/3,4,6,7,8A,8B,9,10,11,12,13,14,15,16,17A,17B,18,30/2,3,4,5,6,7A,7B,8A,8B,9,10,11,12A,12B,13,14,15,16A,16B,17A,17B,31/2,3,4,5A,5B,6,7,8,9,10,11,12,13,14,15A,15B,16,17,18,19,20,32/2A,2B,2C,3A,3B,4,5A,5B,6,33/1,2,



TAMILNADU POLLUTION CONTROL BOARD

3,4,5,6A,6B,6C,6D,7,8,9A,9B,10A,10B,11,12,14A,14B,14C,**34/1,2A,2B,2C,2D,2E,2F,4A,4B,5,6,7,8,9,10A,10B,11,35/1,2,3,4,5,6,7,8,9,10,11,12A,12B,12C,12D,13,14A,14B,15,16,36/1,2,3,4A,4B,5,6,7,8A,8B,8C,8D,8E,8F,9A,9B,9C,10,11A,11B,12,13,14,15,16A,16B,17,18A,18B,19A,19B,37/1,2,3,4,5,6,7,8,9,10,11,13,14,15,16,17,18,38/1,2,3,4,5A,5B,6A,6B,6C,6D,7A,7B,7C,8,9,10,11,39/1A,1B,1C,1D,1E,1F,2,3,4,5A,5B,6A,6B,7,8A,8B,9,10,11,12A,12B,14A,14B,15,16,17.**

Poramboke Land:

S.F.No.25/13,29/19,30/1,34/3,35/17,36/12,39/13,18,19,31/1,32/1,33/13, 37/12.





ET0029994881N

TAMILNADU POLLUTION CONTROL BOARD

006353



Category of the Industry :

RED

CONSENT ORDER NO. 2101131753207

DATED: 16/03/2021

PROCEEDINGS NO.T2/TNPCB/F.1476TRY/RL//TRY/W/2021 DATED: 16/03/2021



SUB: TNPC Board-Consent for Establishment-M/S SIPCOT INDUSTRIAL PARK AT MANAPARAI S.F No. Survey No. 16/1,2A,2B,3,4, etc.. of Kannudaiyanpatty Village, Survey No. 102/1A,1B,1C,1D,1E, etc.. of of K. Periyapatty (N) Village, Survey No. 20/1,2A,2B,3A,3B,3C, etc.. of of Chathirapatty Village. (Village Wise Survey Nos. List is given in Attachment), KANNUDAIYANPATTY Village, Manappaarai Taluk, Thiruchirapalli District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and control of Pollution)Act,1974, as amended in 1988(Central Act 6 of 1974)- Issued- Reg.

- REF:**
1. Unit's application for CTE – New on 29.06.2020/ 13-02-2021
 2. IR.No : F.1476TRY/RL/DEE/TRY/2020 dated 17/11/2020
 3. Minutes of TSC Resolution No. 185-2 Dated 20.01.2021
 4. Minutes of TSC Resolution No. 186-4 Dated 10.03.2021

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

The Managing Director,
SIPCOT INDUSTRIAL PARK AT MANAPARAI

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

S.F. No.Survey No. 16/1,2A,2B,3,4, etc.. of Kannudaiyanpatty Village, Survey No. 102/1A,1B,1C,1D,1E, etc.. of of K. Periyapatty (N) Village, Survey No. 20/1,2A,2B,3A,3B,3C, etc.. of of Chathirapatty Village. (Village Wise Survey Nos. List is given in Attachment),

KANNUDAIYANPATTY Village,
Manappaarai Taluk,
Thiruchirapalli District.

This Consent to establish is valid upto **March 31, 2026**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

G. Gopalakrishnan

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

Digitally signed by G. Gopalakrishnan
DN: cn=G. Gopalakrishnan, o=Tamil Nadu Pollution Control Board, email=gopalakrishnan@tnpcb.gov.in, c=IN
Date: 2021.03.16 12:34:48 +05'30'

To
The Managing Director,
M/s.SIPCOT INDUSTRIAL PARK AT MANAPARAI,
STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LIMITED (SIPCOT)
19-A, RUKMANI LAKSHMIPATHY ROAD,
EGMORE, CHENNAI - 600 008.,
Pin: 600008



TAMILNADU POLLUTION CONTROL BOARD

Copy to:

1. The Commissioner, MANAPPARAI-Panchayat Union, Manappaarai Taluk, Thiruchirapalli District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, THIRUCHIRAPALLI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Tiruchirappalli.
4. File





TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

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

Sl. No.	Description	Quantity	Unit
Product Details			
1.	SIPCOT Industrial Park at Manaparai is an infrastructure development project in a total area of 436.05 hectares. It involves development of roads, water supply, storm water drainage, street lights, green belt development, and such other amenities.	0	0

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

a Sewage Treatment Plant:			
Treatment status: Septic Tank and SP/DT			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Septic tank	1	4.2 x 2.3 x 1.9
2.	Soak Pit	1	1.0 m dia x 2.5 m Ht
b Effluent Treatment Plant:			
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			
2.			

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

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	1.0	On Industrys own land
Effluent Type : Trade Effluent			

4. **Additional Conditions:**



TAMILNADU POLLUTION CONTROL BOARD

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No. SEIAA-TN/F. 6496/EC/8(b)/680/2019 dated 27.11.2019.
2. The unit shall ensure that the establishment of the Industrial Park is carried out only in the survey numbers given in the Annexure.
3. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
4. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
5. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
6. The stability of the entire building/ STP does not falls under the purview of the TNPCB Board.
7. The unit shall submit baseline data for ground water to assess the quality of ground water for 1 KM radius outside the boundary of the project and also inside available open wells within a month's time.
8. The unit shall monitor the ground water in and around the unit premises periodically, so as to assess its quality and submit the same to the Board.
9. The unit has to ensure that all the member Industries within the industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
10. The unit shall obtain the necessary permission / NOC of water supply from the TWAD Board / competent Authority.
11. The unit shall provide septic tank followed by soak pit to treat the sewage generated from SIPCOT administrative building, so as to achieve the standards prescribed by the Board.
12. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
13. The unit shall ensure that 33% of the total area of the project site should be covered with green belt.
14. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
15. The unit shall allot 5% (16.95 Hectare) of the total plot area (328.59 Hectare) for Solid Waste Management as reported in the unit's letter dated 08.02.2021.
16. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules, 2016.
17. The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
18. The unit shall remit consent fee in case of revision by the Government.

G. Gopalakrishnan

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai



TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS

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

G. Gopalakrishnan

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

Digitally signed by G. Gopalakrishnan
DN: cn=Gopalakrishnan, o=Tamil Nadu Pollution Control Board, ou=Engineering Department,
email=gopalakrishnan@tncpcb.gov.in, c=IN
Date: 2023.05.11 10:25:54 +05'30'



TAMILNADU POLLUTION CONTROL BOARD

SIPCOT INDUSTRIAL PARK, MANAPARAI

Village Wise Survey Nos. Details

Kannudaiyanpatty:

Patta Land:

S.F.No.16/1,2A,2B,3,4,5,6,7,8,9,17/1,2,3A,3B,4,5A,5B,6,7,8,9A,9B,10,18/1A,1B1,1B2,2,3,4,5,6,7,8,21/1,2,3,4,5A,5B,6,22/1,2,3,30/1,2A,2B,2C,2D,2E,2F,2G,2H,31/1,2,3,4,5,6,7,8,9,10,11,12,32/1,2A,2B,3,4,33/1,2A,2B,3,4,5A,5B,5C,6,7,34/1,2,3,4,5,6,7A,7B,8,35/1,2,3,4,5,6,7,8,9,10,11,36/1,2,3,4,5,6A,6B,7,38/1,2A,2B,3A1,3A2,5,41/1,2,3A1,3A2,3B,4,5,6,7,8,9,10,11A1,11B,42/1,2,43/1,2,3,4,44/1,2,3,46/1,2A,2B,2C,2D,3,4,5,6,7,8,9A,9B,47/2,3,4,5,6,7A,7B,8A,8B,9,48/1,2,3,4A,4B,5A,5B,6,7,8,9,10,53/1A,1B,1C,2A,2B,3,4,5,6A,6B,7A,7B,8A,8B,8C,9A,9B,10,82/1,2,3A,3B,4,5,6,7,8A,8B,9A,9B,9C,9D,9E,10,11A,11B,12A,12B,13,83/1,2,3A,3B,4,5,6,7,84/1A,1B,1C,1D,1E,2,3,4,5,6,7,85/1A,1B,2,3,4,5A,5B,5C,6,7,8,9A,9B,9C,9D,88/1A,1B,2,3A,3B,4A,4B,5,6A1A,6A1B,6A2,6B1,6B2,6B3,6B4,7,8,9,10A,10B,11,12,13,14A,14B,15A,15B,89/1A,1B,2A,2B,2C,3A,3B,3C,4A,4B,5,6,7,8A,8B,9,10,11,90/1,2A,2B,3,4,5A,5B,6A,6B,6C,7,8,9A,9B,10A,10B,11A,11B,11C,94/1A,1B,1C,1D,1E,1F,1G,1H,1I,2,3A,3B,3C,4,5A,5B,5C,6A,6B,7A,7B,7C,8A,8B,8C,9,10A,10B,11A,11B,11C,12A,12B,13A,13B,14,15,16,95/1,2A,2B,2C,2D,2E,2F,2G,2H,2I,2J,2K,2L,2M,2N,96/1A,1B,1C,1D,1E,1F,1G,1H,2,3,97/1,2,3,4,5,6,7,8,9,98/1,2,3,4,5,6,7,8,9,10,11,12,13A,13B,13C,99/1,2,3A,3B,3C,4A,4B,4C,5,6,7,8,9,10A,10B,11A,11B,11C,11D,100/1,2,3,4A,4B,4C,5,6,7,101,102/1A,1B,1C,2,3,4A,4B,5A,5B,6A,6B,7,8,9,10,11,12,103/1,2,3,4,104/1,2,3A1,3A2,3B,4A,4B,5,6,105/1,2,3,4,5,6,7,8,9,10,11,106/1,2A,2B,2C,2D,3A,3B,3C,4,5,107/1A,1B,1C,1D,2A,2B,2C,3A,3B,3C,3E,3D,4,5,6,7A,7B,7C,108/1A,1B,1C,2,3,4A,4B,5,6,7,8,9A,9B,10A,10B,109/1A,1B,1C,1D,1E,1F,1G,1H,1I,1J,1K,2A,2B,2C,2D,2E,110/1,2,3A,3B,4,5A,5B,6,111/1,2,3,4,5,6A,6B,7,8,9A,9B,10,11,12A,12B,13A,13B,112/1,2,3,4,5A,5B,5C,6,7,8A,8B,9,10A,10B,11A,11B,12,13A,13B,14A,14B,15,16,113/1,2,3,4,5A,5B,6,7,7B,8,114/1A,1B,1C,2A,2B,2C,2D,3A,3B,3C,3D,4A,4B,4C,5,6,115/1A,1B,1C,1D,1E,2A,2B,3,4,5,6,7,8,9,10,11,12,13A,13B1,13B2,13B3,13B4,14,15A,15B,15C,15D,16,116/1A,1B,2,3,4,5,6,7,8,117/1,2,3,4,5A,5B,5,5D,5E,6,118/2,3A,3B,4,5,6,7,8,9,10,1



TAMILNADU POLLUTION CONTROL BOARD

1,12,13,14,**119/2A**,2B,2C,3,4,5,6,**120/1A**,1B,1C,2,3,4,5,6,7,**121/1**,2,3,4,5,6,7A,7B,8,9,**122/1A**,1B,2,**123/1**,2A,2B,2C,3,4,5,6,7,8,9,10A,10B,11,12A1,12A2,12B1,12B2,12B3,12C1,12C2,12C3,12C4,13A,13B,13C,14,**124/1**,2,3,4,5B1,5B2,6,7,8,9,10,**125/1A1**,1A2,1B,2,3,4,5,6,7,8,**126/1A**,1B,2A,2B,3A,3B,3C,4,5,6,7,8A,8B,8C,9A,9B,**127/1**,2,3,4,5,6A1,6A2,6B,7,8,9,10,11,12A,12B,13,14,15,16A,16B,17,18,19,**128/1A**,1B,2A,2B1,2B2,2B3,2B4,3,4A,4B,6A,6B,7A,7B,7C,**133/1**,2,3,4,5,6,7,8,9,10,11,12,13,14,15A,15B,**135/1A**,1B,1C,2A,2B,4,5,6,7A,7B,7C,8A,8B,8C,8D,9,10,11A,11B,11C1,11C2,11D,12A,12B,**138/1**,2,3,4A1,4A2,4A3,4B,5,6,7,8,9,10,11,12,13,14A,14B,**575/1**,2A,2B,2C,3A,5,6B,8B,9,10,11,**576/1**,3,4A,4B,5,6A,6B,7,8A,8B,9,**577/1**,2A,2B,3A1A,3A1B,3A1C,3A1D,3B1A,3B1B,4A,4B,5A1,5A2A,**580/1**,2A,3A,4A,4C,**581/1A**,1C,1B,2B,3A,3C,4A,4C,5.

Poramboke Land:

S.F.No.47/1,53/11,116/9,117/7,118/1,128/5,124/5A3,135/13,3,137,138/15,575/12,576/2,577/3A2,3B2,5B,580/2B,581/1B.

K.Periyapatty:

Patta Land:

S.F.No.102/1A,1B,1C,1D,1E,1F,1G,1H,1I,1J,1K,1L,1M,1N,1O,1P,1Q,1R,2,3A,3B,3C,3D,3E,3F,3G,3H,3I,3J,3K,4A,4B,**103/1A**,1B,1C,2A,2B,3A,3B,3C,3D,3E,3F,3G,3H,3I,3J,3K,3L,**104/1**,2,3,4,5,6A,6B,7,8A,8B,9,10,**105/1A1**,1A2,1A3,1A4,1A5,1A6,1A7,1A8,1A9,1A10,1A11,1A12,1A13,1A14,1A15,1B,2A,2B,2C,2D,2E,2F,2G,2H,2I,2J,2K,2L,2M,2N,2O,3,4,5A,5B,5C,6A,6B,6C,6D,6E,6F,6G,**106/1A**,1B,2A,2B,2C,2D,3,4,5,6,7A,7B,8,9A,9B,10,11,12,13,14,15,16,**118/1**,2,3,4,5,**120/1**,2,3,4,5A,5B,6,7,8,9,10A,10B,10C,11,12A,12B,12C,**122/1A**,1B,2,3,**121/1**,2A,2B,3A,3B,3C,3D,4,5,6,**124/1**,2,3A,3B,**131/2**,3,4,**132/1**,2,**135/1**,3,4,5,6,7,**136/1**,2,5,6,7,**137/1**,2,3,4,5,6A,6B,6C,6D,6E,6F,7A,7B,8A,8B,8C,8D,8E,8F,**138/1A**,1B,1C,1D,1E,1F,1G,1H,1I,2,3,3B,4A,4B,5,6,7,8,9,10,11,12,**139/1**,2,3,4,5,6,7,**140/1**,2,3A,3B,**141/1**,2,4,5,**142/1**,2,4,**150/1**,2,3,5,**151/1A**,1B,1C,2A1,2A2,2A3,2A4,2A5,2B,2C1,2C2,2C3,2C4,3,**152/1A**,1B,2,3,4,5A,5B,6,7,8,9,10A,10B,11,12A,12B,13,14,**153/1A**,1B,2,3,4,5,6,7,8,9A,9B,10,11,12,13A,13B,14,15A,15B,16,17,**154/1A**,1B,1C,1D,1E,2,**155/2**



TAMILNADU POLLUTION CONTROL BOARD

A,2B,2C,3A1,3A,3A2C,3B,4A,4B,4C,**156/1A1**,1A2,1A3,1B,1C,2A,2B,2C,2D,2E,3,4A,4B,5A,5B,**157/1**,2,3,4A,4B,5,6A,6B,7,8,9,10,11,12,13,15,16,17,18,19,**158/1A**,1B,1C,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,**160/1A**,1B,1C1,1C2,1C3,1C4,1C5,2,3,4,5,6A1,6A2,6A3,6B,**161/1**,2,3,4,5A,5B,5C,5D1,5D2,5D3,5D4,6,7A,7B,7C,**162/1**,2,3A1A,3A1B,3A1C,3A2,3A3A,3A3B,3A3C,3A3D,3A3E,3B1,3B2,4A,4B,4C,**163/1A**,1B1,1B2,1B3,2A,2B,2C,2D,2E,2F,2G,2H,2I,2J,2K,**164/1A**,1B,1C,1D,2A,2B,2C,2D,2E,2F,2G,2H1,2H2,2H3,**165/1**,2,3,4,5A,5B,5C,6A,6B,7A,7B,7C,7D,8,9,**166/1A**,1B,1C,2,3,4,5,6,7,8,9,10,11,12,13,14,15,**167/1**,2,3A,3B,4,5,**170/1**,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,**171/1**,2A,2B,2C,3,4A,4B,4C,5,6,7,8,9,10,11,12,13A,13B,**172/1**,2,3,4,5,,6,7,8,9,10,11,12,13,14A,14B,15,16A,16B,**173/1**,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,**174/1**,2,3,4,5,6,7,8,9,10A,10B,11,12,13,14,15,16,17,18,19,20,**175/1**,2,3,4,5A,5B,6,7,8,9,10,11,12,13,14,15,16,17,**176/1**,2,3,4A,4B,5,6,7,8,9,10A,10B,11,12,13,14A,14B,15,16A,16B,16C,17A,17B,17C,**180/1A**,1B,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,**182/1**,2,3,5,6,7,8,9,10,11,12,13,14,15,16,**183/1**,2,3,4,**184/1**,2,3,4,5,6,7,8,9,**185/1**,2,3A,3B,4,5A,5B,6A,6B,7A,7B,7C,8A,8B,9,10A,10B,10C,11A,11B,11C,12A,12B,12C,13,**186/1**,2,3,4A,4B,5,6,7,8,9,10,11A,11B,12,13A,13B,15A,15B,16,17,18,19A,19B,**187/1**,2,3,4A,4B,5A,5B,6A,6B,7A,7B,8,9A,9B,10,11,12,13,14,15,16,17,19A,19B,19C,19D,19E,19F,19G,18.

Poramboke Land:

S.F.No. 135/2,136/3,141/3,142/3,150/4,155/1,183/5,6,184/10.

Chathirapatty:

Patta Land:

S.F.No.20/1,2A,2B,3A,3B,3C,3D,4,5,6,7,8,9,10,11,12,13A,13B,14,15A,15B,16,17,18A,18B,18C,19,20,21A,21B,**24/1**,2,3,4,5A,5B,6,7A,7B,7C,7D,8,9,10,11,12A,12B,13,14,15A,15B,16,17,18,19A,19B,20A,20B,21,22A,22B,22C,**25/1**,2,3,4,5,6,7,8,9,10,11,12A,12B,**29/3**,4,6,7,8A,8B,9,10,11,12,13,14,15,16,17A,17B,18,**30/2**,3,4,5,6,7A,7B,8A,8B,9,10,11,12A,12B,13,14,15,16A,16B,17A,17B,**31/2**,3,4,5A,5B,6,7,8,9,10,11,12,13,14,15A,15B,16,17,18,19,20,**32/2A**,2B,2C,3A,3B,4,5A,5B,6,**33/1**,2,



TAMILNADU POLLUTION CONTROL BOARD

3,4,5,6A,6B,6C,6D,7,8,9A,9B,10A,10B,11,12,14A,14B,14C,**34/1,2A,2B,2C,2D,2E,2F,4A,4B,5,6,7,8,9,10A,10B,11,35/1,2,3,4,5,6,7,8,9,10,11,12A,12B,12C,12D,13,14A,14B,15,16,36/1,2,3,4A,4B,5,6,7,8A,8B,8C,8D,8E,8F,9A,9B,9C,10,11A,11B,12,13,14,15,16A,16B,17,18A,18B,19A,19B,37/1,2,3,4,5,6,7,8,9,10,11,13,14,15,16,17,18,38/1,2,3,4,5A,5B,6A,6B,6C,6D,7A,7B,7C,8,9,10,11,39/1A,1B,1C,1D,1E,1F,2,3,4,5A,5B,6A,6B,7,8A,8B,9,10,11,12A,12B,14A,14B,15,16,17.**

Poramboke Land:

S.F.No.25/13,29/19,30/1,34/3,35/17,36/12,39/13,18,19,31/1,32/1,33/13, 37/12.



ENVIRONMENTAL MANAGEMENT CELL

1. INTRODUCTION:

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

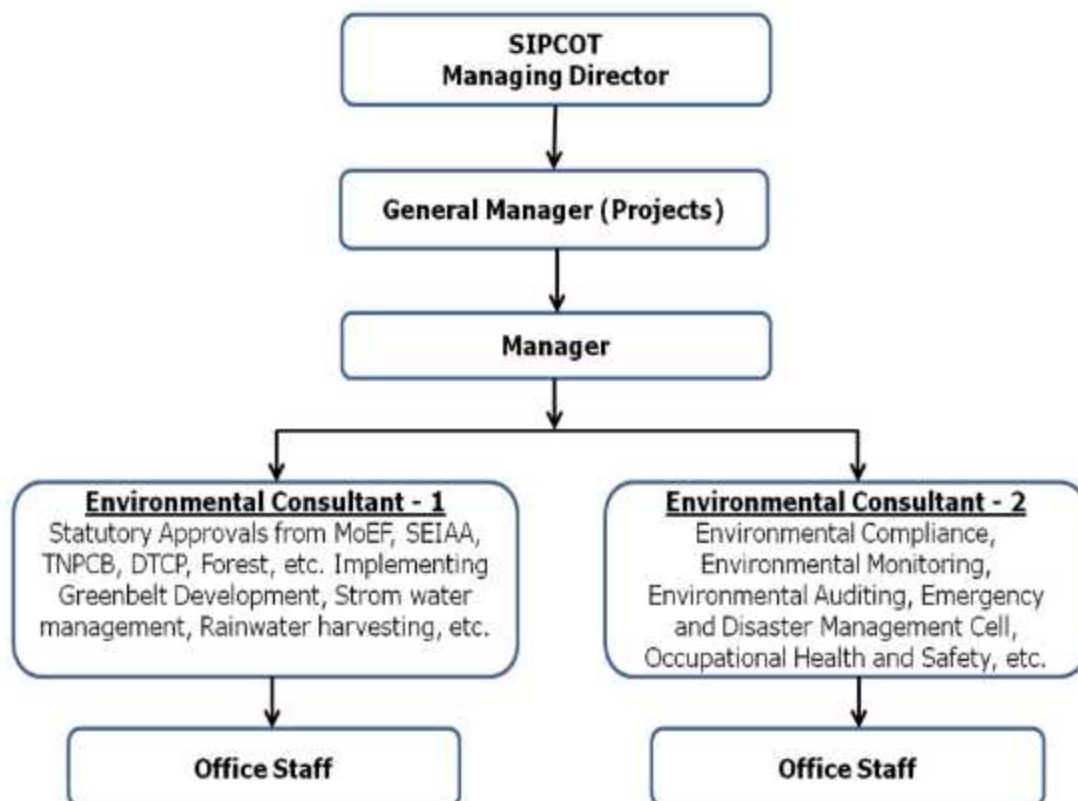


Figure - 1 Organogram for Environmental Management Cell

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

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

Table – 1: Roles and responsibilities of EMC

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : ManapparaiReport No. : HECSL/AA/12/200923
Report Date : 26/09/2023Sample Description : Ambient Air Quality
Sampling Location : Project Area
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On: 26/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards: 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	13.55	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	25.28	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	52.30	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	28.19	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	$\mu\text{g}/\text{m}^3$	11.74	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	6.94	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



(Signature)
Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : ManapparaiReport No. : HECSL/AA/13/200923
Report Date : 26/09/2023Sample Description : Ambient Air Quality
Sampling Location : Aali Patti
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On: 26/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	9.88	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	23.41	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	50.20	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	25.18	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 16) : 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	$\mu\text{g}/\text{m}^3$	12.72	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	6.50	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



(Signature)
Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : ManapparaiReport No. : HECSL/AA/14/200923
Report Date : 26/09/2023Sample Description : Ambient Air Quality
Sampling Location : Pachudayanpatty
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	12.39	CPCB guide lines Volume 1 : 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	21.66	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	48.30	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	20.82	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	$\mu\text{g}/\text{m}^3$	10.72	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	7.40	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	Volatife 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



[Signature]
Authorized Signatory
D. ANUSUYA
Deputy Quality

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : ManapparaiReport No. : HECSL/AA/15/200923
Report Date : 26/09/2023Sample Description : Ambient Air Quality
Sampling Location : Samudram
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 - 20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	10.75	CPCB guidelines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	22.49	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	52.80	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	23.51	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	$\mu\text{g}/\text{m}^3$	13.26	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	8.48	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report



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D. ANUSUYA

Deputy Quality Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : ManapparaiReport No. : HECSL/AA/16/200923
Report Date : 26/09/2023Sample Description : Ambient Air Quality
Sampling Location : Mandipatti
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 - 20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	8.42	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	19.74	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	50.36	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	22.94	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	$\mu\text{g}/\text{m}^3$	11.74	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	8.20	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report



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D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai
Sample Description : WATER
Sample Mark Sample : Aali Patti - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Report No. : HECSL/WT/014/200923
Report Date : 26/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.64	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	120.0	IS 3025 (Part - 23):1985	200	600
3	Electrical conductivity	µS/cm	579.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	184.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	44.30	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	77.20	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	324.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	41.26	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.33	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	3.81	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.048	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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D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/014/200923

Address of the Client : Manapparai

Report Date : 26/09/2023

Sample Description : WATER

Sample Mark Sample : Aali Patti - Ground Water

Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 18/09/2023 -20/09/2023

Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ:0.0005)	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	BLQ(LOQ:0.02)	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.5	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	146.4	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	%	28.72	IS 3025(part-45):1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.12	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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D. ANUSUYA

TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/015/200923

Address of the Client : Manapparai

Report Date : 26/09/2023

Sample Description : WATER

Sample Mark Sample : Pachudayanpatty - Ground Water

Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 18/09/2023 -20/09/2023

Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.56	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	110.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	879.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	210.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	51.30	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	174.20	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	19.93	IS 3025 (Part - 46):1994	30	100
10	Total Dissolved Solids	mg/l	492.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	43.25	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.38	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	18.56	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.041	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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D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Report No. : HECSL/WT/015/200923

Address of the Client : Manapparai

Report Date : 26/09/2023

Sample Description : WATER

Sample Mark Sample : Pachudayanpatty - Ground Water

Drawn By : Hubert Enviro Care Systems (p) Ltd

Sampling/received Date : 18/09/2023 -20/09/2023

Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ:0.0005)	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	85.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	6.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.3	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	134.2	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C) : 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	I
39	Percent Sodium as Na	%	45.77	IS 3025(Part-45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	2.54	IS 11624 - 1986	NA	NA

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

End of Report



Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : ManapparaiReport No. : HECSL/WT/016/200923
Report Date : 26/09/2023Sample Description : WATER
Sample Mark Sample : Samudram - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On: 26/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	6.93	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	135.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	1695.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	348.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	102.20	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	393.43	4500 Cl -- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	22.60	IS 3025 (Part - 46):1994	30	100
10	Total Dissolved Solids	mg/l	949.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	102.36	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.45	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	15.36	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.038	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ:0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation



[Signature]
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D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HECSL/WT/016/200923
Report Date : 26/09/2023

Sample Description : WATER
Sample Mark Sample : Samudram - Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Arsenic as As	mg/l	BLQ(LOQ:0.0005)	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	190.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	4.0	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	BLQ(LOQ:1.0)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD ₅ days @27°C as O ₂	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.4	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	0.029	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	164.7	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	%	52.41	IS 3025(Part-45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	4.42	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

D. ANUSUYA

Deputy Quality 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 2

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HEC/SL/WT/010/200923
Report Date : 26/09/2023

Sample Description : WATER
Sample Mark Sample : Canal Near Pothametupatty- Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
1	pH (at 25 °C)	-	7.35	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	120.0	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	704.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	1.1	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	182.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	40.48	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	118.28	4500 Cl --- B APHA 23rd Edn. 2017	250
9	Magnesium as Mg	mg/l	19.68	IS 3025 (Part - 46):1994	NA
10	Total Dissolved Solids	mg/l	397.0	IS 3025(Part - 16):1984	500
11	Sulphate as SO ₄	mg/l	41.26	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	0.42	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	10.52	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.107	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 : Manapparai

Report No. : HECSL/WT/010/200923
Report Date : 26/09/2023

Sample Description : WATER
Sample Mark Sample : Canal Near Pothametupatty- Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On: 26/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard
24	Sodium as Na	mg/l	60.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	7.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO4	mg/l	0.093	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	2.0	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	3	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as O2	mg/l	20.0	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	0.033	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	146.4	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as C6H5OH	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	%	40.43	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	-	1.93	IS 11624 - 1986	NA

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

End of Report



[Signature]

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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HECSL/WT/010/200923
Report Date : 26/09/2023

Sample Description : WATER
Sample Mark Sample : Pond Near Kalarampatty- Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
1	pH (at 25 °C)	-	7.91	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	110.0	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	856.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	3.5	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	211.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	48.90	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	170.73	4500 Cl — B APHA 23rd Edn: 2017	250
9	Magnesium as Mg	mg/l	21.63	IS 3025 (Part - 46):1994	NA
10	Total Dissolved Solids	mg/l	474.0	IS 3025(Part -16):1984	500
11	Sulphate as SO ₄	mg/l	41.25	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	0.41	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	10.23	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.164	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.

HECS/Q/FMT/50

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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HECSL/WT/010/200923
Report Date : 26/09/2023

Sample Description : WATER
Sample Mark Sample : Pond Near Kalarampatty- Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On :26/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard
24	Sodium as Na	mg/l	81.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	6.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO4	mg/l	0.29	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	9.0	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	3.0	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as O2	mg/l	28.0	IS 3025 (Part - 58):2006	NA
33	Dissolved oxygen	mg/l	5.9	IS 3025 (Part - 38):1989	6
34	Total Phosphorous as P	mg/l	0.089	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	134.2	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	NA
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	NA
39	Percent Sodium as Na	%	44.45	IS 3025(Part -45) 1993	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	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	-	0.42	IS 11624 - 1986	NA

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

End of Report




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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HECSL/SD/1111/200923
Report Date : 26/09/2023

Sample Description : SOIL
Sample Mark : Project Area
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.46	ASTM D421/422
3	Soil Texture i)Sand	%	33.1	ASTM D421/422
4	Soil Texture ii)Silt	%	29.4	ASTM D421/422
5	Soil Texture iii)Clay	%	37.5	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	6.73	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	441.2	IS:14767:2000
8	Cation exchange capacity	meq/100g	2.3	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.87	IS-2720 (Part-22): 1972)
10	Nitrogen	mg/kg	156.11	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	4.11	IS 10158:1982
12	Potassium	mg/kg	21.32	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	7.25	US EPA 200.8 Method
16	Iron	mg/kg	31.22	US EPA 200.8 Method
17	Manganese	mg/kg	51.22	US EPA 200.8 Method
18	Zinc	mg/kg	21.32	US EPA 200.8 Method
19	Colour	-	Red	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	3.64	ASTM D6391-11
21	Bulk density	gm/cc	3.11	ASTM D6683-14
22	Moisture Content	%	7.32	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	19.37	IS 14765
24	Calcium as Ca	mg/kg	101.34	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	37.22	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	22.45	US EPA 200.8 Method

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

End of Report




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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HEC/SL/SD/1212/200923
Report Date : 26/09/2023

Sample Description : SOIL
Sample Mark : Aali Patti
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2022

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.36	ASTM D421/422
3	Soil Texture i)Sand	%	37.3	ASTM D421/422
4	Soil Texture ii)Silt	%	33.2	ASTM D421/422
5	Soil Texture iii)Clay	%	29.5	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.87	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	μ S/cm	233.0	IS.14767:2000
8	Cation exchange capacity	meq/100g	2.3	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.44	IS:2720 (Part-22):1972)
10	Nitrogen	mg/kg	204.1	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	3.76	IS 10158:1982
12	Potassium	mg/kg	37.43	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.01)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	7.88	US EPA 200.8 Method
16	Iron	mg/kg	19.11	US EPA 200.8 Method
17	Manganese	mg/kg	67.11	US EPA 200.8 Method
18	Zinc	mg/kg	17.32	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	4.11	ASTM D6391-11
21	Bulk density	gm/cc	4.11	ASTM D6683-14
22	Moisture Content	%	3.88	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	22.78	IS 14765
24	Calcium as Ca	mg/kg	91.22	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	76.32	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	17.82	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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Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HECSL/SD/1313/200923
Report Date : 26/09/2023

Sample Description : SOIL
Sample Mark : Pachudayanpatty
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

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	%	32.2	ASTM D421/422
4	Soil Texture ii)Silt	%	31.6	ASTM D421/422
5	Soil Texture iii)Clay	%	36.2	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	521.0	IS:14767:2000
8	Cation exchange capacity	meq/100g	2.8	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.43	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	387.22	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	7.22	IS 10158:1982
12	Potassium	mg/kg	18.11	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	3.44	US EPA 200.8 Method
16	Iron	mg/kg	BLQ(LOQ 0.02)	US EPA 200.8 Method
17	Manganese	mg/kg	121.32	US EPA 200.8 Method
18	Zinc	mg/kg	21.76	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	2.11	ASTM D6391-11
21	Bulk density	gm/cc	1.86	ASTM D6683-14
22	Moisture Content	%	5.22	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	36.12	IS 14765
24	Calcium as Ca	mg/kg	129.17	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	48.11	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	28.21	US EPA 200.8 Method

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

End of Report




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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HECSL/SD/1414/200923
Report Date : 26/09/2023

Sample Description : SOIL
Sample Mark : Samudram
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.51	ASTM D421/422
3	Soil Texture i)Sand	%	25.2	ASTM D421/422
4	Soil Texture ii)Silt	%	42.6	ASTM D421/422
5	Soil Texture iii)Clay	%	32.2	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.72	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	251.2	IS:14767:2000
8	Cation exchange capacity	meq/100g	1.8	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.37	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	113.31	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	7.12	IS 10158:1982
12	Potassium	mg/kg	18.12	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	8.32	US EPA 200.8 Method
16	Iron	mg/kg	6.65	US EPA 200.8 Method
17	Manganese	mg/kg	68.77	US EPA 200.8 Method
18	Zinc	mg/kg	35.16	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	5.78	ASTM D6391-11
21	Bulk density	gm/cc	3.77	ASTM D6683-14
22	Moisture Content	%	6.12	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	37.76	IS 14765
24	Calcium as Ca	mg/kg	142.22	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	123.22	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	23.26	US EPA 200.8 Method

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Manapparai

Report No. : HECSL/SD/1515/200923
Report Date : 26/09/2023

Sample Description : SOIL
Sample Mark : Mandipatti
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 19/09/2023 -20/09/2023
Analysis Commenced On : 20/09/2023

Completed On : 26/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.38	ASTM D421/422
3	Soil Texture i)Sand	%	26.1	ASTM D421/422
4	Soil Texture ii)Silt	%	37.3	ASTM D421/422
5	Soil Texture iii)Clay	%	36.6	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.22	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	652.1	IS:14767:2000
8	Cation exchange capacity	meq/100g	5.2	IS 2720 (Part XXIV) Reaff:2010-1976
9	Organic Matter	%	1.13	IS 2720 (Part-22) 1972)
10	Nitrogen	mg/kg	221.54	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	7.44	IS 10158:1982
12	Potassium	mg/kg	33.65	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	7.32	US EPA 200.8 Method
16	Iron	mg/kg	3.87	US EPA 200.8 Method
17	Manganese	mg/kg	88.21	US EPA 200.8 Method
18	Zinc	mg/kg	19.21	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	7.67	ASTM D6391-11
21	Bulk density	gm/cc	3.62	ASTM D6683-14
22	Moisture Content	%	7.34	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	31.77	IS 14765
24	Calcium as Ca	mg/kg	128.0	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	51.21	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	42.23	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




Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

Hubert Enviro Care Systems (P) Ltd.

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

Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Manappurai

Report No. : HECSL/AN/001-005/200923
Report Date : 26/09/2023

Sample Description : Noise Monitoring
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 18/09/2023 -20/09/2023

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	56.6	52.2
2	Aali Patti	51.2	49.7
3	Pachudayanpatty	48.3	45.1
4	Samudram	51.2	44.1
5	Mandipatti	52.4	43.1

Noise Standards - CPCB:

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

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

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

End of Report



Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

வியாழன் தோறும் பக்திமலர் படியுங்கள்

ஸலிக்கை? எரிச்சலா? அபிப்பா? இரத்தக்கரிவா? வலியா?

அது மூலம் / ஏன்? எப்போது? / வேகத்தில் நோயை இருக்கலாம்! / நலம்மனை மற்றும் விவரத்தில் குணனைக்கடிய

வெடன்ஸா

ஆயுள்மெண்ட் & கேட்குல்கள்

அறவை சிகிச்சைக்கு உயிர் தரும் / சம்பந்தமுள்ள அளவளவு

நீர்த் கரிவ குறைக்கிறது, கலங்க பாதை மீட்டிப்படுகிறது, பரிசு துண்டிப்பது, தீர்மானத்திய கிளிக்கிறது, வீக்கத்தை குறைக்கிறது, கண்ணா லுவித்துப்படுகிறது

தமிழ்நாடு தொழில் முன்னேற்ற நிறுவனம்
சிப்காட் தொழில் பூங்கா, மணப்பாறை,
மணப்பாறை தாலூகா, திருச்சிராப்பள்ளி மாவட்டம்.

தொழில்முறை இணைப்புகளை

மாநில உறுத்தலால் தாக்க: மதிப்பீட்டு ஆணையம், தமிழ்நாடு
கீழ்க் கண்ட Lt.No.SEIAA/TN/F.6496/EC/8(b)/680/2019 தேதி
27.11.2019 மூலம் திருச்சிராப்பள்ளி மாவட்டம், கண்ணாடையான்பட்டி,
கே.மெய்யப்பட்டு(N) மற்றும் சத்திரப்பட்டு கிராமங்களில் அளவளவுள்ள
தொழில் பூங்காவிற்கு உறுத்தலும் இணைப்புகளை வழங்கியுள்ளது.

உறுத்தலும் - இவ்வணைமையின் முழுவிவரங்களை
சிப்காட் இணையத்தையான www.sipcot.in மற்றும் மாநில
உறுத்தலும் தாக்க மதிப்பீட்டு ஆணையத்தின் இணையத்தையான
www.seiaa.tn.gov.in ஆகியவற்றில் பதிவிறக்கம் செய்து கொள்ளலாம்.
மேலும் இவ்வணைமையின் நகலினை இவ்வழவலைத்தமிழ்
வெடுக்கொள்ளலாம்.

மேலாளரை இயக்குநர்
சிப்காட்
19-ஆ, குகமணி இலட்சுமிபதி வளைய,
சுமேயூர், சென்னை-600 008.

திருச்சி என்.ஐ.டி

சென்னை, ஜன. 5-
திருச்சி, என்.ஐ.டி.,யின் முன்னாள்மாணவர்கள் சந்திப்பு நிகழ்ச்சி, சென்னையில் நேற்று நடந்தது. இதில், முன்னாள்மாணவர்கள் பங்கேற்று, தங்களின் அனுபவங்களை பரிமாறி மகிழ்ந்தனர்.

இந்தியாவின் பிரசித்தி பெற்ற தொழில்துட்ப கல்வி நிறுவனங்களில், என்.ஐ.டி., எனப்படும், நேஷனல் இன்ஸ்டிடியூட் ஆப் டெக்னாலஜி முக்கிய இடத்தில் உள்ளது. இதன் திருச்சி கிளை, 1964ல் துவக்கப்பட்டது.

அதன் முன்னாள் மாணவர்கள் சந்திப்பு நிகழ்ச்சி, சென்னை, கிழக்கு கடற்கரைசாலையில், நேற்று நடந்தது.

தேசிய பேட்மின்ட்ஸ் பயிற்சியாளர் கோபிசந்த் சிறப்பு விருந்தினராக பங்கேற்று, விழாவை

துவக்கி வைத்து பேசிய தாவது:

திருச்சி என்.ஐ.டி.,யின் முன்னாள் மாணவர்கள் சார்பில், பிரமாண்ட விளையாட்டு அரங்கம் கட்டப்பட உள்ளதை நான் வரவேற்கிறேன். நான் பேட்மின்ட்ஸ் விளையாட துவங்கும் போது, இத்துறையில் சிறந்து விளங்குவேன் என நினைக்கவில்லை. பெற்றோரின் ஊக்கம், எனக்கு அமைந்த சிறந்த பயிற்சியாளர்கள் மூலம், பேட்மின்ட்ஸில் வளர்ச்சி பெற்றேன்.

கடந்த, 1990ல் இருந்து 2002ம் ஆண்டு வரை, பல மூட்டு அறுவை சிகிச்சை மேற்கொண்டேன்: இதனால், எனது ஆட்டத்தில், ஏற்ற இறக்கங்கள் ஏற்பட்டன. இருப்பினும், மனம் தளராமல் விளையாடினேன். அதற்கு உரிய பலனை பெற்றேன்.

ஆந்திரா அரசு எனக்கு தேவையான உதவிகளை செய்துகொடுத்தது. அதன் பின், அகாடமி அமைத்து, திறமை உள்ளோரை அடையாளம் கண்டு, பயிற்சி அளித்து வருகிறேன்.

தம் வளர்ச்சிக்கு குரு

கேமரா, செ

திருச்சி, ஜன. 5-

நாட்டிலேயே, முதல் முறையாக திருச்சி மாநகரில் சென்சார், தானியங்கி கத்தம் செய்யும் கருவி களுடன் கூடிய 'ஸ்மார்ட்டாய்லெட்' அமைக்கப்பட்டுள்ளது.

திருச்சி மாநகரில், மாநகராட்சி சார்பில் 'ஸ்மார்ட்டாய்லெட்' அமைக்கப்பட்டுள்ளது.



இந்திய ரிசர்வ் வங்கி

www.rbi.org.in

இந்திய ரிசர்வ் வங்கியால் நெறிப்படுத்தப்படும் நிறுவனங்களுக்கு / இந்திய ரிசர்வ் வங்கியின் எந்தவொரு துறைக்கு எதிரான புகார்களின் தீர்வை

இந்திய ரிசர்வ் வங்கி (RBI) நாட்டிலும் உள்ள தனது அலுவலகங்களில் குறைகளை நிவர்த்தி செய்யப் பல்வேறு மன்றங்களை அமைத்துள்ளது.

RBI ஆல் நெறிப்படுத்தப்படும் நிறுவனங்கள், அதாவது வணிக வங்கிகள், பிராந்திய கிராமப்புற வங்கிகள், கூட்டுறவு வங்கிகள் அவ்வது இந்திய ரிசர்வ் வங்கிச் சட்டம் 1934 பிரிவு 45-1A-ன் கீழ் பதிவு செய்யப்பட்ட வங்கிசாரா நிதிநிறுவனம் (NBFC), டிஜிட்டல் பரிமாற்றங்களுக்கான வங்கிக் குறைதீர்ப்பாளர் புகாரின் திட்டம் (கொடுப்பு மற்றும் தீர்வு முறைமைகள் சட்டம் 2007-ன் கீழ்), வைப்புத் தொகை காப்புறுதி மற்றும் கூடன் உத்தரவாதக் கழகம் (DICGC) அவ்வது RBI-ன் எந்தவொரு துறைக்கு எதிரான சேவைக் குறைபாடுகள் தொடர்பான புகார்களை ஆன்லைனில், <https://cms.rbi.org.in> >> File a Complaint என்ற புகார் மேலாண்மை அமைப்பின் (CMS) மூலம் புகார்களை முழுமையான விவரங்கள் மற்றும் ஆதார ஆவணங்களுடன் பதிவு செய்யலாம். மேற்கூறிய குறைகளை உடைய பொதுமக்களில் எந்தவொரு நபரும், ஆன்லைனில் பதிவு செய்ய முடியவில்லை என்றால், தபாலிலோ/நேரிலோ/யின்னஞ்சல் மூலமாக புகார்களை இத்தகைய மன்றத்திற்கு பின்வரும் முகவரிக்கு அனுப்பலாம்.

புகர்வரை கல்வி மற்றும் பாதுகாப்பு பிரிவு (CEPC) - இந்திய ரிசர்வ் வங்கியின் வங்கிக் குறைதீர்ப்பாளர் திட்டத்தின் கீழ் வராத குறைகளுக்கு

புகர்வரை கல்வி மற்றும் பாதுகாப்பு பிரிவு (CEPC)
திரு சுந்தர் மூர்த்தி, பொது மேலாளர்
இந்திய ரிசர்வ் வங்கி

16, ராஜாஜி எளவை, கோட்டைச் சரிவு, சென்னை-600 001;

தொலைபேசி எண்: 044-25361910; மின்னஞ்சல்: cms.cepc@rbi.org.in
அலுவலக நேரம்: காலை 09:30 - மாலை 05:30 மணி.

Annexure 7

Projects/Manaparai/2019

Date: 05.02.2020

The President,
Kannudaiyanpatti Village Panchayat,
Manaparai Taluka,
Tiruchirappalli District,
Tamil Nadu

/RPAD/

Sir,

Sub: SIPCOT Industrial Park, Manaparai - Environmental Clearance
Obtained from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 6496/EC/8(b)/680/2019 dated
27.11.2019.

With reference to the above, we have obtained Environmental Clearance
(EC) for SIPCOT Industrial Park at Kannudaiyanpatti, K.K. Periyapatti (N) and
Chattirapatti Villages, Manaparai Taluka, Tiruchirappalli District, Tamil Nadu from
SEIAA. The copy of Environmental Clearance has been enclosed here with for
your kind perusal.

Yours Faithfully,


GENERAL MANAGER (P-II)/c
12/18

Encl.: as above

Copy to:

Project Officer, SIP - Manaparai -

To hand over a copy of the
Environmental Clearance to the above
panchayat with due acknowledgement
and send a report to H.O.

S
I
P
C
O
T
DESPATCHED
07 FEB 2020
Bk61 S.L. No. G.D.H. Signature

Projects/Manaparai/2019

Date: 05.02.2020

The President,
K.K. Periyapatti (N) Village Panchayat,
Manaparai Taluka,
Tiruchirappalli District,
Tamil Nadu

/RPAD/

Sir,

Sub: SIPCOT Industrial Park, Manaparai - Environmental Clearance
Obtained from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 6496/EC/8(b)/680/2019 dated
27.11.2019.

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(EC) for SIPCOT Industrial Park at Kannudaiyanpatti, K.K. Periyapatti (N) and
Chattirapatti Villages, Manaparai Taluka, Tiruchirappalli District, Tamil Nadu from
SEIAA. The copy of Environmental Clearance has been enclosed here with for
your kind perusal.

Yours Faithfully,

GENERAL MANAGER (P-II)/c

18/18

Encl.: as above

Copy to:

1. Project Officer, SIP - Manaparai - To hand over a copy of the
Environmental Clearance to the above
panchayat with due acknowledgement
and send a report to H.O.



Projects/Manaparai/2019

Date: 05.02.2020

The President,
Chattirapatti Village Panchayat,
Manaparai Taluka,
Tiruchirappalli District,
Tamil Nadu

/RPAD/

Sir,

Sub: SIPCOT Industrial Park, Manaparai - Environmental Clearance
Obtained from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F. 6496/EC/8(b)/680/2019 dated
27.11.2019.

With reference to the above, we have obtained Environmental Clearance
(EC) for SIPCOT Industrial Park at Kannudaiyanpatti, K.K. Periyapatti (N) and
Chattirapatti Villages, Manaparai Taluka, Tiruchirappalli District, Tamil Nadu from
SEIAA. The copy of Environmental Clearance has been enclosed here with for
your kind perusal.

Yours Faithfully,


GENERAL MANAGER (P-II)/c

15/18

Encl.: as above

Copy to:

- 1. Project Officer, SIP - Manaparai - To hand over a copy of the
Environmental Clearance to the above
panchayat with due acknowledgement
and send a report to H.O.

S I P C O T	DESPATCHED	
	07 FEB 2020	
	6k59	G.Dfj
	S.L. No.	Signature

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

Annexure - 8b

The screenshot shows a web browser window with the URL https://sipcot.tn.gov.in/pages/view/Compliance_Report. The website has a blue header with navigation links: HOME, ABOUT US, DASHBOARD, DOCUMENT, OFFICE ORDERS / CIRCULARS, TENDERS, GALLERY, WRITES AIDIT, CONTACT US, and APPLY ONLINE. The main content area is divided into two sections. On the left is a table with 16 rows, each representing a compliance report for June 2023 from various locations. On the right is a section titled 'ENVIRONMENT MANAGEMENT' with a blue box containing three links: Environment Policy, Environmental Clearance, and Compliance Report. The Windows taskbar at the bottom shows the search bar, several application icons, and the system tray with the date 15-Nov-23 and time 2:56 PM.

Sl.no.	Title
1	Compliance Report - Iheroy Handiga for June 2023
2	Compliance Report - Pillaipakkam for June 2023
3	Compliance Report - Vallam Vadagal I for June 2023
4	Compliance Report - Valpur Mathur for June 2023
5	Compliance Report - Aerospace Park for June 2023
6	Compliance Report - Cheyyar for June 2023
7	Compliance Report - Manaperal for June 2023
8	Compliance Report - Tindivanam for June 2023
9	Compliance Report - Manalur for June 2023
10	Compliance Report - Vallam Vadagal II for June 2023
11	Compliance Report - Thoothukudi for June 2023
12	Compliance Report - Nemill for June 2023
13	Compliance Report - Mambakkam for June 2023
14	Compliance Report - Marudbandapalli for June 2023
15	Compliance Report - Thani for June 2023
16	Environmental Statement for the Financial Year - 2022 - 2023

ENVIRONMENT MANAGEMENT

- Environment Policy
- Environmental Clearance
- Compliance Report

SIPCOT – MANAPPARAI MONITORING PHOTOS

AMBIENT AIR QUALITY MONITORING PHOTOS:



Project site



Aali Patti



Samudram



Pachudayanpatty



Mandipatti

Ground water sampling photos



Aali Patti



Pachudayanpatti



Samudram

Surface water sampling photograph



Pothametupatty Canal



Kalarampatty Pond

Soil sampling photograph



Project area



Aali Patti



Pachudayanpatti



Samudram



Mandipatti

Noise monitoring photograph



Project area



Aalipatti



Pachudayanpatti



Samudram



Mandipatti