HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the period of April 2024 – September 2024

For

"Establishment of Industrial Park"

At

Pelakuppam, Venmaniyathoor, Kollar Villages of Thindivanam Taluk, Villupuram District, Tamil Nadu

EC OBTAINED Vide Letter No SEIAA-TN/F.6497/EC/8(b)/681/2019 dated: 27.11.2019

Submitted by



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

19/A, RukmaniLakshmipathy Road, Egmore, Chennai-600008.

Prepared by



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

November 2024

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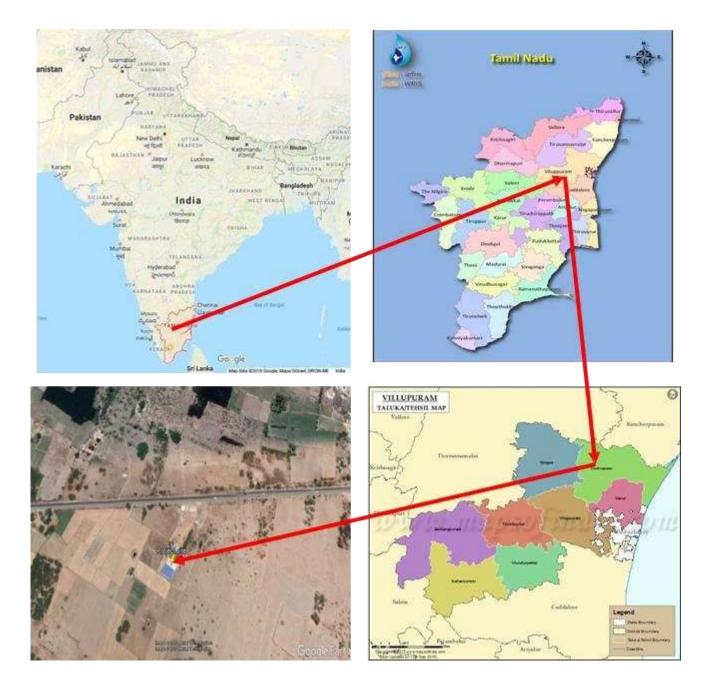
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1. **PROJECT DETAILS**

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Name of the Project	SIPCOT Industrial Park, Thindivanam
Name of the Proponent	State Industries Promotion Corporation of Tamil Nadu Ltd.
EC. No	SEIAA-TN/F.6497/EC/8(b)/681/2019 dated 27.11.2019 (Enclosed as Annexure- 1)
Area of the Land	291.60.5 Hectares
Water Requirement:	 a) Total Water Requirement: 4 MLD b) Source: 3 MLD Tertiary Treatment Reverse Osmosis (TTRO water) from Thindivanam Municipality. c) 1 MLD for drinking water from Tamil Nadu Water Supply and Drainage Board (TWAD)
Project Cost	Rs. 300 Crores

2. LOCATION MAP



3. SITE PHOTOGRAPHS









4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

<u>Part – A: Common Conditions Applicable for Pre construction, Construction</u> <u>and Operational Phase</u>

S. No.	Condition	Status of Compliance
1.	Any appeal against this environmental clearance	No appeal lies against this Environmental
	shall lie with the Hon'ble National Green	Clearance.
	Tribunal, if preferred, within a period of 30 days	
	as prescribed under section 16 of the National	
	Green Tribunal Act,2010.	
2.	The construction of STP, Solid Waste	Construction shall be carried out as per
	Management facility, E-waste .Management	the layout approval.
	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	SIPCOT shall comply with all the
	application of the proponent /mentioned during the	applicable conditions issued in the EC.
	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	All the member units will be instructed to
	approvals for storage of diesel from Chief	obtain all necessary statutory clearances and
	Controller of Explosives, Fire and Rescue Services	approvals.
	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	Condition noted.
	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.	Condition is being complied.
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.	Condition is being complied. Proof of dispatch of Form V to TNPCB and the screenshot of uploading the environmental statement in SIPCOT website is enclosed as Annexure – 2 and Annexure – 9 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	Condition noted.
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.	Consent to Establishment has been obtained from TNPCB. Copy of the same is enclosed as Annexure-3 .
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.

11	The conditions will be enforced inter-alia, under	Condition Noted.
	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, 010 framed under MMDR Act	
	1957, National Commission for protection of Child	
	Right Rules,2006 and rules made there under also	
	any other orders passed by the Hon'ble Supreme	
	Court of India/Hon'ble National Green Tribunal	
	relating to the subject matter.	
12	The Environmental Clearance shall not be cited	Condition Noted.
	for relaxing the other applicable rules to this	
	project.	
13	Failure to comply with any of the conditions	Condition Noted.
	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	Condition is being complied. The compliance
	compliance of the stipulated EC conditions,	report including monitoring data has been
	including results of monitored data on their	uploaded on our website and screenshot is
	website and shall update the same periodically. It	enclosed as Annexure- 9.
	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,PM 2.5,	
	SO, NOX (ambient levels as well as stack	
	emissions) or critical sectoral parameters, indicated	
	for the project shall be monitored.	
	tor the project shall be monitored.	

15	The SEIAA, TN may cancel the environmental	SIPCOT shall comply with all the
	clearance granted to this project under the	applicable conditions issued in the EC.
	provisions of EIA Notification 2006, if, at any	
	stage of the validity of this environmental	
	clearance, if it is found or if it comes to the	
	knowledge of this SEIAA, TN that the project	
	proponent has deliberately concealed and/or	
	submitted false or misleading information or	
	inadequate data for obtaining the environmental	
	clearance.	
16	The Environmental Clearance does not imply that	Condition Noted. All the member industries
	the other statutory / administrative clearances shall	will be instructed to obtain necessary
	be granted to the project by the concerned	approvals / clearances.
	authorities. Such authorities would be considering	
	the project on merits and be taking decisions	
	independently of the Environmental Clearance or	
	inadequate data for obtaining the environmental	
	clearance.	
17	The SEIAA, TN may alter/modify the above	Condition noted.
	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	Condition Noted. All the member industries
	applicant/proponent of his obligation/requirement	will be instructed to obtain necessary
	to obtain other statutory and administrative	approvals / clearances.
	clearances from other statutory and administrative	
	authorities.	
19	Where the trees need to be cut, compensation	Condition noted.
17	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.	
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20	A separate environmental management cell with	Condition complied. Separate environmental
	suitable qualified personnel should be set-up under	management cell has been assigned and will
	the control of a Senior Executive who will report	report to the General Manager, SIPCOT who
	directly to the Head of the Organization and the	will report directly to the Head of the
	shortfall shall be strictly reviewed and addressed.	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	Condition Noted.
	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	Condition Noted.
	disturbance & deterioration of the local bio	
	diversity.	
23	The project activity should not impact the water	Condition will be complied. Surface water
	bodies. A detailed inventory of the water bodies	quality monitoring report is enclosed as,
	and forest should be evaluated and fact reported to	Annexure - 5.
	the Forest Department & PWD for monitoring.	
24	All the assessed flora & fauna should be	Condition Noted.
	conserved and protected.	
25	The proponent should strictly comply with,	Condition Noted. All the member units will
	Tamil Nadu Government Order (Ms) No.84	be instructed to follow all applicable rules
	Environment and forests (EC.2) Department dated	and guidelines.
	25.06.2018 regarding ban on one time use and	
	throwaway plastics irrespective of thickness with	
	effect from O 1.01.2019 under Environment	
	(Protection) Act, 1986.	

26	As per MoEF & CC, Gol, Office Memorandum	Not applicable.
	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 10 KM from National Park and Sanctuaries.	
27	Traffic congestion near the entry and exit points	Condition will be complied.
	from the roads adjoining the proposed project site	
	must be avoided.	
28	The safety measures proposed in the report should	Condition Noted. All the member units will be
	be strictly followed.	instructed to comply with.
29	The Developer shall ensure that no allotment	Condition Noted. If any EC category industry
	letter/ sale deed in any form shall be made to	is proposed within the Industrial Park,
	house Category B Industry as prescribed in the	Individual Industries will be mandated to
	schedule of EIA notification 2006. However, in	obtain separate EC on their own.
	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	Condition Noted. All the member units will be
30	industries of the Industrial Park to allot 33% of	instructed to comply with.
	the plot area for green belt development and to	instructed to comply with.
21	install RWH structures.	
31	The Developer has to ensure that all the member	Condition will be complied. All the member
	industries within the Industrial Park shall make	units will be mandated to provide individual
	their own arrangements to achieve zero discharge	ETP with Zero Liquid Discharge system and
	of the trade effluents, solid waste & E waste	to handle the domestic wastewater as per the
	management, gaseous emission and noise control	prescribed standards. All the member units
	measures to achieve the standards prescribed by	will be instructed to follow all applicable
	the TNPCB.	rules and guidelines.

32	The project proponent shall ensure that the	Condition Noted. All the member units will
	individual member units will not be allowed to	be instructed to follow all applicable rules
	carry out manufacturing of products stipulated in	and guidelines.
	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	Condition complied. Land use classification
	land use classification Certificate obtained from	certificate obtained from DTCP.
	competent authority for the proposed project	
	before obtain the CTE from TNPCB.	
34	The proponent shall obtain the necessary	Condition is being complied. Letter from
	permission/ NOC of water supply from the	TWAD Board is enclosed as Annexure- 6.
	TWAD Board/competent Authority.	
35	The CER fund shall be utilized as per the office	Condition will be complied.
	memorandum of MoEF&CC dated 01.05.2018	
	before obtaining CTO from TNPCB.	
36	The allotted industrial units shall obtain consent	All the member units will be instructed to
	from the TNPCB separately for their establishment	obtain all necessary statutory clearances and
	& operation in this industrial estate.	approvals.
37	The project proponent shall ensure that 33% of the	Condition Noted. All the member units will be
	total area of the project site should be covered with	instructed to comply with.
	green belt.	
38	The proponent shall provide Rain Water Harvesting	Condition will be complied
50	pits so as to recharge the ground water table.	condition will be complied.
	pris so as to reenarge the ground water table.	
39	Discharge of treated sewage shall conform to the	SIPCOT have not proposed STP. All the
	norms & standards prescribed by the Tamil Nadu	member Industries will be mandated to
	Pollution Control Board.	provide STP and the treated sewage will be
	- Charles Dourd	reused for their greenbelt.
		reased for their greenbert.

40	It is the sole responsibility of the proponent that	SIPCOT have not proposed STP. All the
	the treated sewage disposed for green belt	member industries will be mandated to treat
	development/ avenue plantation should not pollute	the domestic sewage and reuse for greenbelt
	the soil/ ground water/ adjacent canals/ lakes/	development. All the member units will be
	ponds, etc.	instructed to follow all applicable rules and
		guidelines.
41	The Developer has to ensure that all the member	Condition will be complied. All the
	industries within the Industrial Park shall make	member units will be mandated to provide
	their own arrangements to achieve zero discharge	individual ETP with Zero Liquid
	of the trade effluents.	Discharge system and to handle the
42	The project proponent shall ensure that all the	Condition Noted. All the member units will
	member units should treat and dispose solid waste	be instructed to follow all applicable rules
	& E-waste as per the Solid Waste Management	and guidelines
	Rule2016 as amended and E-Waste Management.	
43	There shall be no discharge of effluent outside the	All the member units will be instructed to
	Industrial Park at any time.	comply with. All the member units will be
		mandated to adopt Zero Liquid Discharge
44	The Developer shall mandate the member units	Condition will be complied. All the
	of the Industrial Park to install adequate APC	member units will be instructed to follow all
	measures/Acoustic to achieve air emissions	applicable rules and guidelines.
	standards within permissible limits prescribed by	
	the CPCB.	

Part - B - Specific Conditions - Pre Construction Phase:

S.No	CONDITIONS	STATUS OF COMPLIANCE
1.	The project authorities should advertise with	Condition complied. Newspaper advertisement
	basic details at least in two local newspapers	copy is enclosed as Annexure-7A.
	widely circulated, one of which shall be in the	The copy of the press release has been
	vernacular language of the locality concerned,	forwarded to the Regional Office of the
	within 7 days of the issue of clearance. The	Ministry of Environment and Forests located at
	press releases also mention that a copy of the	Chennai and SEIAA-TN and acknowledgement
	clearance letter is available with the State	for the same is enclosed as Annexure-7B.
	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	Condition noted.
	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	Condition complied. Acknowledgement copy
	the proponent to the Local Body. The clearance	of clearance letter sent to local body is
	letter shall also be put on the website of the	enclosed as Annexure-8A. The clearance letter
	Proponent.	also uploaded on SIPCOT website and it is
		enclosed as Annexure-8B.
4.	The approval of the competent authority shall	Condition Noted. Individual member units will
	be obtained for structural safety of the buildings	be instructed to obtain all necessary statutory
	during earthquake, adequacy of fire fighting	clearances and approvals.
	equipments, etc as per National Building Code	
	including protection measures from lightning	
	etc before commencement of the work.	

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5.	All required sanitary and hygienic measures for	Condition Noted. All the member units will be
	the workers should be in place before starting	instructed to comply with.
	construction activities and they have to be	
	maintained through out the construction phase.	
6.	Design of buildings should be in conformity	Condition Noted. All the member units will
	with the Seismic Zone Classifications.	be instructed to follow applicable rules and
		guidelines.
7.	The Construction of the structures should be	Construction will be carried out as per the
	undertaken as per the plans approved by the	DTCP approved layout.
	concerned local authorities / local	
	administration.	
8.	No construction activity of any kind shall be	Condition will be complied.
	taken up in the OSR area.	
9.	Consent of the local body concerned should be	Condition will be complied. Individual
	obtained for using the treated sewage in the	industries will be mandated to treat the Sewage
	OSR area for gardening purpose. The quality of	as per the norms and reuse within their premises.
	treated sewage shall satisfy the bathing quality	
	prescribed by the CPCB.	
10.	The height and coverage of the constructions	Not applicable. The project site is away from the
	shall be in accordance with	CRZ.
	the existing FSI/ FAR norms as per Costal	
	Regulation Zone Notification, 2011.	
11.	The Project Proponent shall provide car parking	Not Applicable. The proposed project is an
	exclusively for the visiting guest in the	Industrial Park.
	proposed residential apartments as per CMDA	
	norms.	
12.	The project proponent shall ensure the level of	Condition Noted. All the member units will be
	basement shall be above maximum flood level	instructed to comply with.

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13.	The proponent shall prepare completion plans	Conditions applicable will be complied.
	showing Separate pipelines marked with	
	different colours with the following details:	
	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.	
14.	A First Aid Room shall be provided in the	Condition Noted. All the member units will be
	project site during the entire construction and	instructed to comply with.
	operation phases of the project.	
15.	The present land use surrounding the project site	Condition Noted.
	shall not be disturbed at any point of time.	
16.	The green belt area shall be planted with	Greenbelt will be developed with indigenous
	indigenous native trees	native species.
17.	Natural vegetation listed particularly the trees	Condition noted.
	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,	Condition will be complied.
	there should be no disturbance to the aquatic	
	eco-system within and outside the area.	
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19.	The Provisions of Forest conservation act1980,	Condition noted. All the member units will be
	Wild Life Protection Act 1972 & Bio	instructed to follow all applicable rules and
	diversity Act 2002 should not be violated.	guidelines.
20	There should be Firefighting plan and all	Condition will be complied. All the member
	required safety plan.	units will be instructed to comply with.
21.	Regular fire drills should be held to create	All the member units will be instructed to
	awareness among owners/ residents.	comply with.

Part C - Specific Condition Construction Phase

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Construction Schedule:	
	i) The Project proponent shall have to furnish the	Condition noted.
	probable date of commissioning of the project	
	supported with necessary bar charts to SEIAA-TN.	
2.	Labour We	lfare:
	i) All the laborers to be engaged for construction	Condition will be complied. All the member
	should be screened for health and adequately	units will be instructed to comply with.
	treated before and during their employment on the	
	work at the site.	
	ii) Personnel working in dusty areas should wear	Condition will be complied. All the member
	protective respiratory devices and they should also	units will be instructed to comply with.
	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	Condition will be complied. All the memb
	engaged in the project shall be carried out and	units will be instructed to comply with.
		units will be instructed to comply with.
	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.	
<u> </u>	We does form	
3.	Water Sup	
	i) The entire water requirement during construction	Condition will be complied
	phase may be met from ground water source from	
	the source with approval of the PWD Department	
	of water resources/ may be out source.	
	ii) Provision shall be made for the housing labour	Condition Noted.
	within the site with all necessary infrastructures	
	and facilities such as fuel for cooking, mobile	
	toilets, mobile STP, 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	Condition will be complied. All the member
	should be provided for construction workers at	units will be instructed to comply with.
	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.	
	iv) Water demand during construction should be	Condition will be complied. All the member
	reduced by use of premixed concrete, curing agents	units will be instructed to comply with
	and other best practices prevalent.	

6.	Construction Debris disposal:	
	randscape development within the project site.	
	activities should be stored for use in horticulture/ landscape development within the project site.	units will be instructed to comply with
	i) All the top soil excavated during construction	Condition will be complied. All the member
5.	Top Soil Management:	
	Rules, 2016 and subsequent amendment.	all applicable rules and guidelines.
	vendor as per E-waste (Management and Handling)	member units will be instructed to follo
	v) E-waste shall be disposed through Authorized	Condition will be complied. All the
	surrounding environment.	all applicable rules and guidelines.
	watercourse including drains, canals and the	member units will be instructed to follo
	iv) No waste of any type to be disposed of in any	Condition will be complied. All the
	waste management rules 2016.	all applicable rules and guidelines.
	in bins or waste handling receptacles as per the solid	member units will be instructed to follo
	iii) Domestic solid wastes to be regularly collected	Condition will be complied. All the
	and disposed as per the SWM rules 2016.	
	segregated at source, in a month from residences	
	and used cleaning solvent bottles should be	
	small electronics, CFL bulbs, expired medicines	follow all applicable rules and guidelines
	ii) House hold hazardous wastes such as batteries,	All the member units will be instructed t
	composted with biodegradables.	
	manure, gardens is not acceptable; it must be co-	
	sludge management plan for direct use as	comply with.
	i) In the solid waste management plan, the STP	All the member units will be instructed t
4.	Solid Waste Management:	
	based control.	
	use of aerators / pressure reducing devises / sensor	
	water should be of low flow type by adopting the	units will be instructed to comply with
	v) Fixtures for showers, toilet flushing and drinking	Condition will be complied. All the memb

	i) Disposal of construction debris during	Condition will be complied. All the
	construction phase should not create any adverse	member units will be Mandated to comply
	effect on the neighboring communities and be	Construction & Demolition Wast
	disposed off only in approved sites, with the	Management rules, 2016
	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.	
	ii) Construction spoils, including bituminous	Condition will be complied. All the memb
	materials and other hazardous materials must not	units will be instructed to comply with.
	be allowed to contaminate watercourses. The dump	
	sites for such materials must be secured so that	
7.	Diesel Generator sets:	
	i) Low Sulphur Diesel shall be used for operating	All the member units will be instructed
	diesel generator sets to be used during construction	follow all applicable rules and guidelines.
	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 stand by DG sets shall	All the member units will be instructed to
	be stored in underground tanks fulfilling the safety	follow all applicable rules and guidelines
	norms and if required, clearance from Chief	
	Controller of explosives shall be taken.	
	iii) The acoustic enclosures installed at all noise	All the member units shall comply with.
	generating equipments such as DG sets, air	
	conditioning systems, cooling water tower etc.	
8.	Air & Noise Pollution Control:	

	i) Vehicles hired for bringing construction	Condition will be complied. All the member
		*
	materials to the site should be in good condition	units will be instructed to comply with.
	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	Condition is being complied. All the
	residential standards prescribed by the TNPCB,	member units will be instructed to follow
	both during day and night. Incremental pollution	all applicable rules and guidelines. Ambient
	loads on the ambient air and noise quality should	Air and Noise monitoring Reports are
	be closely monitored during the construction phase.	enclosed as Annexure-5.
	The pollution abatement measures shall be strictly	
	implemented.	
	iii) Traffic congestion near the entry and exit	Condition will be complied. All the member
	points from the roads adjoining the proposed	units will be instructed to comply with.
	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.	
	iv) The buildings should have adequate distance	All the member units will be instructed to
	between them to allow free movement of fresh air	follow all applicable rules and guidelines.
9.	Building material:	
	i) Fly-ash blocks should be used as building	All the member units will be instructed to
	material in the construction as per the provision of	follow all applicable rules and guidelines.
	Fly ash Notification of September, 1999 and	
	amended as on 27th August, 2003 and Notification	
	No. S.O. 2807 (E) dated: 03.11.2009.	
		<u> </u>

	ii) Ready-mix concrete shall alone be used in	Condition will be complied. All the member
	building construction and necessary cube- tests	units shall comply with.
	should be conducted ascertain their quality.	
	iii) Use of glass shall be reduced up to 40% to	Condition will be complied All the
		member units will be instructed to follow
	reduce the electricity consumption and load on air	
	conditioning. If necessary, high quality double	all applicable rules and guidelines.
	glass with special reflecting coating shall be used in	
	windows.	
10.	Storm Water Drainage:	
	i) Storm water management around the site and	Storm water drain will be provided al
	on site shall be established by following the	along the internal roads. All the membe
	guidelines laid down by the storm water manual.	units will be instructed to follow al
		applicable rules and guidelines.
	ii) Storm water management plan shall be obtained	Condition noted.
	by engaging the services of Anna University/IIT.	
	by engaging the services of runa emitersity/iff.	
11.	Energy Conservation Measures:	
	i) Roof should meet prescriptive requirement as	All the member units will be instructed to
	per Energy Conservation Building Code by using	follow all applicable rules and guidelines.
	appropriate thermal insulation material, to fulfil	
	the requirement.	
	ii) Opaque wall should meet prescribed requirement	All the member units will be instructed
	as per Energy Conservation Building Code which is	follow all applicable rules and guidelines.
	mandatory for all air conditioned spaces by use of	
	appropriate thermal insulation material to fulfill the	
	requirement.	
	-	

13.	Green Belt Development:	
	event of emergency shall be made.	
	vehicles up to the buildings and for rescue in the	units will be instructed to comply with.
	ii) Proper and free approach road for fire- fighting	Condition will be complied. All the member
	standards.	all applicable rules and guidelines.
	arrangements should be made as per the prescribed	member units will be instructed to follo
	i) Adequate fire protection equipments and rescue	Condition will be complied. All the
12.	Fire Safety:	
	commissioning.	
	design and should be in place before project	
	building should be integral part of the project	
	of CFLs/TFLs for lighting the areas outside the	units will be instructed to comply with.
	vi) Energy conservation measures like installation	Condition will be complied. All the membra
	time.	
	etc and submitted to the SEIAA in three month's	
	building materials & technology; R & U factors	
	shall be prepared incorporating details about	
	prescribed by the Bureau of Energy Efficiency	
	conforming to energy conservation norms	follow all applicable rules and guidelines.
	v) A report on the energy conservation measures	All the member units will be instructed
	apartments shall be provided.	
	system or fully solar system for a portion of the	
	lighting for gardens and street lighting. A hybrids	
	incorporated for illumination of common areas,	units will be advised to comply with.
	iv) Application of solar energy should be	Condition will be complied . All the memb
	areas.	
	shall be provided for illumination of common	
	energy conservation have to be adopted Solar lights	
	Code (ECBC) and National Building Code, 2005 as	follow all applicable rules and guidelines.

	i) The Project Proponent shall plant tree species	Condition will be complied.
	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	Condition will be complied. Greenbelt
	to capture the fugitive emissions and to attenuate	will be developed in minimum 33% of total
	the noise generated, in addition to the improvement	developable area with indigenous native
	in the aesthetics. A wild range of indigenous plants	species.
	species should be planted in and around the premise	
	in consultation with the DFO, Vilupuram 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 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	Greenbelt will be developed as per the
	per the plan furnished and area earmarked for the	DTCP approved layout plan.
	greenbelt shall not be alter at any point of time for	
	any other purpose.	
	iv) The proponent has to earmark the greenbelt area	Condition will be complied.
	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	STP is not proposed by SIPCOT. Individual
	should be certified by an independent expert/	industries will be mandated to have
	reputed academic institutions for its adequacy and	STP/ETP as per the requirement and to
	a report in this regard should be submitted to the	reuse the treated wastewater as per the
	SEIAA, TN before the project is commissioned for	norms. All the member industries will be
	operation. Explore the less power consuming	instructed to follow applicable rules and
	systems viz baffle reactor, etc., for the treatment of	guidelines.
	sewage.	
	ii) The Proponent shall install STP as furnished.	STP is not proposed by SIPCOT. All
	Any alteration to satisfy the bathing quality shall be	the member industries will be instructed to
	informed to SEIAA-TN.	follow applicable rules and guidelines.
	iii) The project proponent shall operate and	STP is not proposed by SIPCOT. All
	maintain the Sewage treatment Plant effectively to	the member industries will be instructed to
	meet out the standards prescribed by the CPCB.	follow applicable rules and guidelines.
	iv) The project proponent shall continuously	STP is not proposed by SIPCOT. All
	operate and maintain the Sewage treatment plant to	the member industries will be instructed to
	achieve the standards prescribed by the CPCB.	follow applicable rules and guidelines.
	v) The project proponent has to ensure the	STP is not proposed by SIPCOT. All
	complete recycling of treated sewage after	the member industries will be instructed to
	achieving the standards prescribed by the CPCB.	follow applicable rules and guidelines.
	vi) The project proponent has to provide separate	All the member units shall comply with.
	standby D.G set for the STP for the continuous	15
	operation of the STP in case of power failure.	
15.	Rain Water Harvesting:	
	i) The proponent/Owner of the Flats shall ensure	All the member units will be instructed to
	that roof rain water collected from the covered roof	comply with.
	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.	

	ii) Rain water harvesting for surface run-off, as per	All the member units will be instructed to
	plan submitted should be implemented. Before	comply with.
	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	Condition noted.
	disturbance & deterioration of the local bio	
	diversity.	
16.	Building Safety:	
	Lightning arrester shall be properly designed and	All the member industries will be instructed
	installed at top of the building and where ever is	to follow applicable rules and guidelines.
	necessary.	

5. ENVIRONMENTAL MONITORING DETAILS

It is mandatory to submit six month compliance report of EC conditions to MoEF & CC Regional Office by the proponent. For the purpose of submitting Six-Monthly Compliance report, the environmental monitoring was carried out by M/s. Hubert Enviro Care Systems Pvt. Ltd an NABL Accredited Laboratory for the period of April 2024 – September 2024.

5.1 Ambient Air Quality monitoring

During construction phase, particulate matter and gaseous emissions are likely to arise from the site movement of vehicles, operation of DG sets etc., the ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored. The test report of ambient air quality for the period of April 2024 – September 2024.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 2024 – September 2024.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 2024 – September 2024 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 2024 – September 2024. 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 2024 – September 2024. The test report of surface water collected and analyzed is enclosed as **Annexure-5**.

6. CONCLUSION

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

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

Annexure 1



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. 6497/EC/ 8(b)/ 681/2019 dated: 27.11.2019.

То

The Managing Director

M/s. State Industries Promotion Corporation of Tamil Nadu Limited.

19-A, Rukmani Lakshmipathy Road

Post Box No.7223

Egmore

Chennai-600 008

Sir,

- Sub: SEIAA, TN Environmental Clearance Proposed establishment of Industrial Park at Thindivanam by M/s. State Industries Promotion Corporation of Tamil Nadu Limited at S.F. No. 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41,42,43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2,3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village, 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, Thindivanam Taluk, Villupuram 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.6497/2018/8(b)/ToR-506/2018 dated: 16.0





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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

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:

PROJECT DETAILS			
SL No	Description	Details	
1)	Name of the Project proponent and	The Managing Director	
	address	M/s. State Industries Promotion Corporation of Tamil Nadu Limited.	
		19-A, Rukmani Lakshmipathy Road	
		Post Box no.7223	
		Egmore	
		Chennai-600 008	
2)	Proposed Activity	Proposed establishment of Industrial	
		Park at Thindivanam	
3)	Schedule No.	8(b)	
4)	Project Location		
	i)Survey No	1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17,	
		18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35,	
	UTENT SAL	36, 37, 38pt, 39, 40, 41,42,43/1pt, 2, 45,	
	THURONMENT IMPACT	6, 47, 48/1, 49, 50, 51, 52, 53, 54, 55,	
Page 2 of	2 7 NOV 2019	MEMBER SECRETARY SEIAA-TN	

<u>Annexure 1</u>

			56, 57, 60, 61/1, 2, 3pt	, 62, 63, 64, 118
			120, 121, 123, 125	, 126, 129 o
			Pelakuppam Village,	
			46pt, 47pt, 48pt, 50pt	, 51, 52pt, 53pt
			55pt of Venmaniyathoo	or Village,
			181pt, 182, 183, 184	, 194, 195, 196
			197, 198, 199, 200, 20	
			205, 206, 207, 208,	
			213pt, 214, 237, 244,	
				245 & 240pt 0
_		111 m	Kollar	
		ii)Revenue Village	Pelakuppam, Venmani	yathoor, Kollar
			Village	
		iii)Taluk	Thindiva	nam
		iv)District	Villupur	am
5)	Area of the Land 291.60.5 He		ectares	
6)	Built up	Area		
				Area
	SI.No.	No. Description		(Hectares)
	1	Plot area		195.29
	2	Roads and Storm water dr	ainage	13.56
	3	Common amenities (EB, Water storage, Fire		
		Services, Administrative Office, etc.)		4.37
	4	Commercial activities		14.57
	5	Green Belt outside plot area (OSR)		26.81
	6	Green Belt along roadside		3.51
	7	Solid Waste Management		10.00
		Total developable area		268.11
		Water bodies (which will	not be encroached)	23.49
		Total IP area		291.60



MEMBER SECRETARY SEIAA-TN

	Industria	ment, and such other amenin al Park will house industrie	s which do not fall ur	
	• A c • A • F • F	d amendments thereof. The All General Engineering uni eastings etc., Auto components Industries Food Processing Industries. Packaging units. her industries that are not un	ts such as fabrication,	machining, forging,
8)	La	nd Use Classification	Patta dry land & G	ovt Poramboke Land
9)	Green B	elt		
	Sl.No.	Description		Area (Hectares)
	1.	By SIPCOT outside the pl	ot area	58.59
	2.	By SIPCOT along the Road sides and Central meridian		26.81
	3.	By Member Industries (30 % of the total plot area allotted to Member Industries) i.e 30% of 195.29 Ha		3.51
		Total		88.91
		Percentage of Green Belt among Total developable Area of Industrial Park i.e 268.11 hectares		33.16%
10)	U	TILITIES-WATER		
	a) '	Total Water Requirements	4 N	4LD
	b) Source from where the water is proposed to be drawn Munice		/	
	1 MLD for drinking water from Nadu Water Supply and Drainage (TWAD)		-	
	c) Sewage system All member units w		will be mandated to	
		2 7 NOV 201	g MEMI	Jaya BER SECRETARY SEIAA-TN

Saidapet, Cherry

	d) ETP & Recycle line	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 . 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.
11)	Solid Waste Management	Area of 10Ha 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
12)	Power requirement	50MW from TANGEDCO
13)	Project Cost	Rs. 300 Crores
14)	EMP Cost	For Operation Phase: Capital Cost –1 Crores,



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OI	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.Kumargurubaran, IAS, Managing Director, Authorised Signatory, represent M/s. State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT), 19-A, Rukmani Lakshmipathy Road, Egmore, Chennai - 600008.

We have proposed to establish an industrial park over an extent of 291.605 hetctares at Pelakuppam, Kollar & Venmaniyathur villages of Tindivanam taluk, Villupuram 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 will develop Green belt in OSR areas and along the roadsides in 11.31 % of the total developable area of 268.11 hectares i.e 30.32 hectares. Further, we will also ensure the development of green belt in 30% of the allotted area by the member units i.e 58.59 hectares, which is 21.85% 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 88.91 hectares, which is 33.16% of the total developable area of the park.
- 2. We commit to SEIAA that the total water requirement for the park is 4 MLD out of which potable water would be around I MLD and the balance 3 MLD would be for non potable purposes. The required potable water will be obtained from Tamil Nadu Water Supply and Drainage Board (TWAD) and non potable water from Tertiary Treatment Reverse Osmosis (TTRO) plant to be setup at Tindivanam. SIPCOT is already in discussion with Commissioner of Municipal Administration (CMA) for setting up of TTRO plant. 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 Pollymore ontrol Board TNPCB).



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- 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.
- 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



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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:

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

- 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.
- 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 / Ceptant Model of Control of Conservation Act, 1980 and Wild Life (Protection)



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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.
- "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 alar and protection of child Right Rules Supreme



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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 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.



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- 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 (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.
- 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 B industry as prescribed in the



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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.
- 34. The proponent shall obtain the necessary permission/ NOC of water supply from the TWAD Board/competent Authourity.
- 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.



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- 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 Rule2016 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:

- 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 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.
- 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



MEMBER SEA SEIAA-TN

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- 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
 - 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. Strom water drains, and
 - ix. Rain water harvesting system, etc.,. and it shall be made available



MEMBER SECRETARY SELAA-TN

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- 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.

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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.
- 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 needer MENT IMPAC



MEMBER SE SEIAA-TN

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:

- 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.
- iv) Water demand during construction should be reduced by use of premixed 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 devises / sensor based control.

4. Solid Waste Management:

- In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be cocomposted with biodegradables.
- ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicated used cleaning solvent bottles should be



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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

- 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.
- 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.



MEMBER S SEIAA-TN

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- 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 regulative facility shall be met before commissioning.
 - 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:
 - 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 share and and an ecessary cube-tests share an ecessary c



MEMBER SE SEIAA-TN

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:

- 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.
- 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 project commissioning.
- 12. Fire Safety:

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MEMBER SE SEIAA-TN

- 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 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:



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- 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 beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.
 - 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 wattage essary.



MEMBER SI

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<u>Part – D - Specific Conditions – Operational Phase/Post constructional</u> 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.
- 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 atleast10% of total energy utilization.
- 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 sixmonthly report.



MEMBER SE

- SEIAA-TN
- 10. The EMP cost 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 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.





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- 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.
- 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 unit mentioned sale deed.



MEMBER SE SEIAA-TN

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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.

MEMBER SECR

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.
- The Member Secretary, Tamil Nadu Pollution Control Board,
 76, Mount Salai, Guindy, Chennai; 600 032.
- The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ),
 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, Viluppuram District
- 7. Stock File.



Annexure 2



I/173639/2024

Date: 26-09-2024

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

Sir,

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

Ref: SEIAA Lr. No. SEIAA-TN/F.6497/EC/8(b)/681/2019 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 Pelakuppam, Venmaniyathoor and Kollar Villages in Tindivanam Taluk, Villupuram District, Tamil Nadu for the Financial Year ending 31st March 2024.

Yours faithfully,

2.2 Saper P

DEPUTY GENERAL MANAGER (P-II)

S DESPATCHED 1 p 0 1 OCT 2024 C 0 Т S.L. No. 4 1 Signature

Encl: As above.

State Industries Promotion Corporation of Tamil Nadu Limited

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



ANNEXURE-3

RED

Category of the Industry :

CONSENT ORDER NO. 2101231962104 DATED: 16/03/2021.

PROCEEDINGS NO.T2/TNPCB/F.1357VPM/RL/VPM/A/2021 DATED: 16/03/2021

SUB: TNPC Board-Consent for Establishment-M/s. SIPCOT INDUSTRIAL PARK AT THINDIVANAM , S.F. No. 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, PELAKUPPAM village, Tindivanam Taluk and Villupuram District - for the establishment or take steps to establish the industry under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987(Central Act. 14 of 1981)-Issued -Reg.

REF: 1. Unit's application for CTE - New on 19.06.2020/ 27-02-2021

2. IR.No : F.1357VPM/RL/AE/VPM/2020 dated 18/12/2020

3. Minutes of TSC Resolution No. 185-3 Dated 20.01.2021

4. Minutes of TSC Resolution No. 186-13 Dated 10.03.2021

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

The Managing Director,

M/s . SIPCOT INDUSTRIAL PARK AT THINDIVANAM

S.F No.181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village,

PELAKUPPAM Village,

Tindivanam Taluk,

Villupuram District.

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

S.F No. 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village.

PELAKUPPAM Village,

Tindiyanam Taluk,

Villupuram District,

This Consent to establish is valid upto March 31, 2026, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

Twee

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G. Gopalakrishnan

For Member Secretary, Tamil Nadu Pollution Control Board, Chennai

To

The Managing Director,

M/s.SIPCOT INDUSTRIAL PARK AT THINDIVANAM,

State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT),

No.19-A, Rukmani Lakshmipathy Road,

Egmore, Chennai.,

Pin: 600008

Copy to:

1 The Commissioner, MYLAM-Panchayat Union, Tindivanam Taluk, Villupuram District .

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

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

4. File

2



SPECIAL CONDITIONS

 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		The second
1.	SIPCOT Industrial Park at Thindivanam is an infrastructure development project which involves development of Industrial plots, development of roads, water supply, storm water drainage, street lights, green belt development and such other amenities.	291.60.5	Hectares

 This consent to establish is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

I	Point source emission with st	ack :		Contraction of the second
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr
н	Fugitive/Noise emission :			
SI. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	

3. Special Additional Conditions:

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

4. Additional Conditions:

1. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA, TN vide Lr.No.SEIAA-TN/F.6497/EC/8(b)/681/2019 Dated 27.11.2019.

 The unit shall ensure that no process emission is let out from its activity.
 The unit shall conduct Ambient Noise level survey report and Ambient Air Quality survey report for base line data to assess the quality of Ambient Air and Ambient Noise level and submit the report within one month's time.

The unit shall install Continuous Ambient Air Quality Monitoring System (CAAQMS) stations in the downwind and upwind directions and shall connect the same to CAC, TNPCB, Chennai.

The unit shall provide odour control mechanism individually or through the member units for the containment of odour emitting from the industries.

6. 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

- 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.
- The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
- 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).
- Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
- 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.
- The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
- The unit shall develop green belt of adequate width around the premises.
- 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, Chennal

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In the second reliance to be later. I



PROCEEDINGS NO.T2/TNPCB/F.1357VPM/RL//VPM/W/2021 DATED: 16/03/2021



SUB: TNPC Board-Consent for Establishment-M/S SIPCOT INDUSTRIAL PARK AT THINDIVANAM S.F No. 181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village, PELAKUPPAM Village, Tindivanam Taluk, Villupuram 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 19.06.2020/ 27-02-2021

2. IR.No : F.1357VPM/RL/AE/VPM/2020 dated 18/12/2020

3. Minutes of TSC Resolution No. 185-3 Dated 20.01.2021

Minutes of TSC Resolution No. 186-13 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 THINDIVANAM

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

S.F. No.181pt, 182, 183, 184, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213pt, 214, 237, 244, 245 & 246pt of Kollar Village, 46pt, 47pt, 48pt, 50pt, 51, 52pt, 53pt, 55pt of Venmaniyathoor Village and 1, 2, 3, 4, 5, 6, 10pt, 13pt, 14, 15, 16, 17, 18, 19, 20, 21pt, 22/1, 2, 32, 33, 34, 35, 36, 37, 38pt, 39, 40, 41, 42, 43/1pt, 2, 45, 46, 47, 48/1, 49, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61/1, 2, 3pt, 62, 63, 64, 118, 120, 121, 123, 125, 126, 129 of Pelakuppam Village,

PELAKUPPAM Village,

Tindivanam Taluk,

Villupuram 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

To

The Managing Director, M/s.SIPCOT INDUSTRIAL PARK AT THINDIVANAM, State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT), No.19-A, Rukmani Lakshmipathy Road, Egmore, Chennai.,



TAMILNADU POLLUTION CONTROL BOARD

Pin: 600008

Copy to:

- 1. The Commissioner, MYLAM-Panchayat Union, Tindivanam Taluk, Villupuram District .
- 2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, VILLUPURAM.
- 3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Vellore.

4. File

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SPECIAL CONDITIONS

 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.

SI. No.	Description	Quantity	Unit
	Product Details		
1.	SIPCOT Industrial Park at Thindivanam is an infrastructure development project which involves development of Industrial plots, development of roads, water supply, storm water drainage, street lights, green belt development and such other amenities.	291.60.5	Hectares

2.

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

a Sewage Treatment Plant:						
	<u>v</u> a	Treatment sta	ent status: Septic Tank and SP/DT			
SL. No. 1. 2.		Name of the Treatment Unit	atment No. of Units Dimensi			
		Septic tank	1	4.2 x 2.3 x 1.9 1.0 m dia x 2.5 m H		
		Soak pit	1			
b	Ef	fluent Treatment Plant:	A second second	Sector II and the sector		
	1	Treatment status: No t	rade effluent and hence	does not arise		
SL. No.		Name of the Treatment Unit	No. of Units	Dimensions in metres		
1.						

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 Typ	pe : Sewage		And Anther Print of the
1.	Sewage	0.13	On Industrys own land

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.6497/EC/8(b)/681/2019 Dated 27.11.2019.

2. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.

3. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.

4. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.

5. The stability of the entire building/ STP does not falls under the purview of the TNPC Board.

6. The unit shall 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. 7. 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.

8. 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.

9. The unit shall obtain the necessary permission / NOC of water supply from the TWAD Board / competent Authority.

10. 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.

11. The SIPCOT shall obtain NOC from competent authority for the withdrawal of 1 MLD of water from 50 Nos of open wells in its premises.

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. Compensation is to be paid for land acquisition as fixed by the District Collector and District Magistrate as civil liability.

14. The SIPCOT shall ensure that the allotted units are mandated to implement own sewage treatment system for treating and disposing the sewage and shall ensure that no treated / untreated sewage shall gain access outside the unit premises on land / water source under any circumstances. 15. The SIPCOT shall ensure that the allotted units not dig any well or bore well inside their premises

for drawing of ground water.

16. The SIPCOT shall ensure that the allotted units are mandated that the water courses/pathai leading to the Water bodies located in the surroundings will not be disturbed and in this regard a condition shall be imposed in the allotment order to the member units.

17. The SIPCOT shall ensure that the allotted units are mandated that all the member industries to develop green belt in 35% of their allotted area.

18. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.

19. The unit shall allot 5% (10 Hectare) of the total plot area (180.65 Hectare) for Solid Waste Management as reported in the unit's letter dated 26.02.2021.

20. 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.

21. The project generating more than 20 tons of construction and demolition waste or more in one day or 300 tons per project in a month shall segregate the waste into four streams such as concrete, soil, steel, wood and plastics, bricks and mortar and keep the construction and demolition waste within the premise or get the waste deposited at collection centre so made by the local body or handover it to the authorised processing facilities of construction and demolition waste and ensure that there is no littering or deposition of construction and demolition waste so as to prevent obstruction to the traffic or the public or drains.

22. The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.

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23. The unit shall remit consent fee in case of revision by the Government.

G. Gopalakrishnan For Member Secretary, Tamil Nadu Pollution Control Board,

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TAMILNADU POLLUTION CONTROL BOARD

GENERAL CONDITIONS

- 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.
- The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
- 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).
- Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
- 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.
- The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
- The unit shall develop green belt of adequate width around the premises.
- 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

Annexure-4

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**.

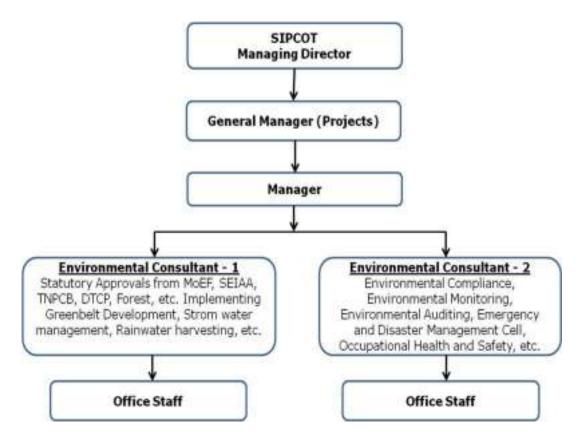


Figure - 1 Organogram for Environmental Management Cell

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.

S.No. Designation Responsibilities > Responsible for overall environmental management. Regularly conduct meeting with EMC and take feedback the activities performed regarding all under 1 Managing Director Environmental Management and give directions to succeeding component. > Approval of funds for carrying out environmental management activities. > Keep aware about all the activities performed under EMC in the industrial parks. > Issuing direction to Project officers for implementing GM – Projects 2 Greenbelt development, Storm water management, rain water harvesting, etc. > To deal with legal entity pertaining to environmental issues. > To prepare and allocate budget for Environment Management Plan. > Ensuring compliance to the conditions prescribed by statutory authority. 3 Manager > 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. Obtaining Statutory Approvals from MoEF&CC / SEIAA / TNPCB, etc. > Addressing the various gueries received from statutory authorities on environmental front. Environmental 4 Submitting Environmental compliance report and Consultants (Two) 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.

Table – 1: Roles and responsibilities of EMC

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ANNEXURE 5

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				TEST R	FPORT		
1	1223			THUL N	The second		ge: 1 of 1
Ē	前法学史				ULR		4000045594F
Na	me of the Client	¹ M/s. SIPC	CONTR.		Report No.	HECS/AP	
	and she the Chieffe	- ous, arry	01		Sample ID 1		
Ad	dress of the Client	: Tindivana	100		Sampling D	ne : 21/09/2024	虹
Gree	* 17 million and a second s	: Atmosphe	ric Pollu	tion	Received Di	ile 7 21/09/2024	
Sample Name ‡ Ambient Sample Mask ‡ Project A				Commenced	Date \$ 21/09/2024		
		rea		Completed (
Sample Reference : NA Sample Drawn By : M/s.Hube					Report Date	\$ 27/09/2024	
Eusi Sam	plung Method & Plan	* NA * Temperat * IS 5182 Pa	ure(°C):	care Systems (P 32.0 Humi art 14		. 134	
S.No. Test Parameters		Units	Results	Test Method	NAAQ Stan	dards : 2009	
Dist	cipline t Chemical		-				and the second s
	Arsenie		ng/m3	BLQ (LOQ: 2,0)	HECS-G/INS/SOP/041 Issue No.:01 Issue Date:01.03.2021		6 (Annual)
2	Nickel		ng/m3	8LQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021		20 (Annual)
3	Benzene-AAQ		µg/m3	BLQ (LOQ: 0.1) 1S 5182 Part 11: 2006	5 (Annual)	5 (Annual)
1	Benzo (a) pyrene-AAQ	8	ng/m*	BLQ (LOQ: 0.1)	IS: 5182 Part 12: 2004	I (Annual)	(Annual)
8	Ammonia as NH3		µg/m ³	6.70	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual
6	Carbon Monoxide (CO	Carbon Monoxide (CO) mg/ m ³ BLQ(LOQ 0.05) IS 5182 (Part 10) Clause 4 1999		4 (I bours)	2 (8 hours)		
7	Nitrogen disixides as No	02	µg/m³	24.63	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
¢.	Ozone as O3		µg/m ³	11.98	IS 5182 (Part 9) 1974	180 (1 bours)	
ł.	Particulate matter (Size	less than 10	µg/m4	52.35	18 5182 (Part 23) 2006	100 (24 hours)	100 (8 hours 60 (Annual)
	p.ms)						
0		less than 2.5	µg/m*	19.82	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
10	pm) Particulate matter (Size		μg/m ⁴ μg/m ⁴	19.82	IS 5182 (Part 24) 2019 IS 5182 (Part 2) 2001	60 (24 hours) 80 (24 hours)	40 (Annual) 50 (Annual)

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

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

End of Report

CAR

D.Anusuya Lab Manager Authorized Signatory

The report in full or part shall not be used for any promotional or publicity purpose willout written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by conterner the text items will not be retained more than 15 days from the date of issue of last report. 4. Under no circumstances tale accepts any lability or text itemage naised by use or minuse of text report after involcing or lases of text report. 5. The text results relate only to the test items.
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TEST REPORT

Page | 1 of 1

Nam	e of the Client	: M/s. SIPCOT		Report No. Sample ID No.	* HECS/AP/078/210924/N : 210924156	
Addr	ess of the Client	: Tindivanam			Sampling Date	: 21/09/2024
Sample Sample Sample Sampl Enviro	e Name e Mark e Reference e Drawn By le Location umental Condition ing Method & Plan	 Atmospheric Pe Ambient Alr(A) Project Area NA M/s.Hubert Env NA Temperature (° 18 5182 Part 5 d 	II) riro care Systems (P C) : 32.0 Humi) Ltd. idity (%) : 56.0	Received Date Commenced Da Completed On Report Date Sample quantit	* 27/09/2024 * 27/09/2024
S.No.	Test Pa	arameters	Units	Resul		MT
Discip	sline : Chemical			Acsu!		Test Method
1	TVOC		Promise	1 110100		

1.1.1.1	bbuse	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue
Nata: BLO Balanda Line and			No.:01 Issue Date:02:07 2020
Note:- BLQ - Below the Limit of Quantification, LO	DO- Limit of Owner	figurian manage Based	1995

ation, ppmv- Parts per million by Volume. ""End of Report""

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D.Anusuya Lab Manager Authorized Signatory

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 aniess or otherwise mentioned 3. Unless specifically requested by use or misuse of test report after involving or issue of test report. 5. The test nexults relate only to the test items. HECS-G/O/F/MT/49

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など				TEST RE	ULR	‡ TC1231024	
					Report No.	[‡] HECS/AP/0	79/210924
Nami	of the Client	# M/s. SIPCO	TC		Sample ID No	: 210924157	
Addr	ess of the Client	: Tindivanas	n		Sampling Date	: 21/09/2024	
inup		1 Atmospher	ic Pollut	ion	Received Date	: 21/09/2024	
Sample Name * Ambient A		ir(All)		Commenced D	Commenced Date # 21/09/2024		
Sample Mark : Botheri				Completed On	; 27/09/2024		
Simple Reference INA					Report Date	\$ 27/09/2024	
Sampi Enviru	e Drawn By le Location nmental Condition ing Method & Plan	NA Temperatu IS 5182 Pa	ure (°C) :		Ltd. Sample quan	-9-NA	
S.No.	Test Para	meters	Units	Results	Test Method	NAAQ Standards : 2009	
Discip	dine : Chemical						
1	Arsenic		ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel		ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Aanual)
3	Benzene-AAQ		pg/m3	BLQ (LOQ: 0.1) IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-A/	Q	ngim ^y	BLQ (LOQ: 0.1)	IS: 5182 Part 12: 2004	I (Aannal)	I (Annual)
5	Ammonia as NH3		p.g/m [#]	7.93	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual
6	Carbon Monoxide (CO) mg/ m		mg/ m ³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as	NO2	µg/m ⁴	20.78	1S 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3		µg/m*	13.51	1S 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
	9 Particulate matter (Size Jess than 10 µm)		µg/m ³	53.84	IS 5182 (Part 23) 2005	100 (24 hours)	60 (Annuzi)
0	10 Particulate matter (Size less than 2.5 µg/m ³		22.30	1S 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)	
	Particulate matter (Si µm)	ize less than 2.5	1.0.0	1.0000000			
			h Simi	14,92	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m3- Micrograms per cubic meter,

mg/m3-Milligrams per cubic meter, ng/m3-Nanograms per cubic meter.

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

End of Report



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 Z. Samples are not drawn by HECS unless or otherwise
mentioned:
 Sinkes specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report.
 A. Under no circumstances be accepts any
liability or loss / damage caused by use or misuse of test report after involcing or issue of test report.
 S. The test results miste only to the test items.
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TEST REPORT

Page : 1 of 1

Name	of the Clicut	[‡] M/s. SIPCOT			Report No. Sample ID No	* HECS/AP/079/210924/N * 210924157
Addre	ss of the Client	: Tindivanam			Sampling Date	: 21/09/2024
Sample I Sample Environe		² Atmospheric Po ² Ambient Air(A) ² Botheri ² NA ² NA ² NA ² Temperature (*) ² IS 5182 Part 5 8	1) iro care Systems (P) C) : 32.0 Humic		Received Date Commenced Dat Completed On Report Date Sample quantit	* 27/09/2024 * 27/09/2024
S.No.		irameters	Units	Results		Test Method
	ne : Chemical					t in involou

	100000	
ppnive	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue
LOO Link to		No.:01 Issue Date:02:07 2020
	17 85 5 555	14 Magazog 0.11

Quantification, ppmv- Parts per million by Volume.

End of Report



D.Anusuya Lab Manager Authorized Signatory

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				TEST R	EPORT ULR Report No	: TC123102	ge : 1 of 1 4000045596F 980/210924
Nan	ne of the Client	3 M/s. SIPC	OT		Sample ID		
Add	ress of the Client	: Tindiyana	m		Sampling	Sate : 21/09/2024	
Grouj	p	* Atmosphe	ric Pollut	tion	Received I	ane = 21/09/2024	
Samp	le Name	: Ambient A			11000005537773	d Date: 21/09/2024	
Samp	le Mark	: Agoor			Completed		
	le Reference le Drawn By	* NA.			Report Dat		
Envir Samp	ile Location onmental Condition ling Method & Plan	* NA * Temperati * IS 5182 Pa	ure ("C) :	care Systems (P 32.0 1 Humi ert 14		iantity ⁷ NA	
S.No		meters	Units	Results	Test Method	NAAQ Stan	dards : 2009
	pline : Chemical						and the principal data and the second
1	Arsenic		ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Iss No.:01 Issue Date:01.03.20		6 (Annual)
2	Nickel		ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issi No.:01 Issue Date:01.03.202	and designed	20 (Annual)
3	Benzene-AAQ		µg/m3	BLQ (LOQ: 0.1) IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
1	Benzo (a) pyrene-AA	Q	ng/m ³	8LQ (LOQ: 0.1)	1S : 5182 Part 12: 2004	T (Annual)	I (Annual)
s:	Ammonia as NH3		µg/m ³	5.28	15 5182 (Part 25) 2018	400 (24 hours)	100 (Annual
6	Carbon Monoxide (C	0)	mg/ m)	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
P	Nitrogen dioxides as	NO2	$\mu g/m^k$	22.91	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
1	Ozone as O3		\mug/m^3	10.66	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
,	Particulate matter (Sic µm)	ze less than 10	µg/m)	48.72	1S 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
0	Particulate matter (Siz jum)	ze less than 2.5	µg/m ³	20.58	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
t	Sulphur dioxide as St	52	µg/m ³	8.54	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead		µg/m3	BLQ (LOQ:	HECS-G/INS/SOP/ 041 Issu		0.5 (Annual)

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

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

End of Report



D.Anusøya Lab Manager

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TEST REPORT

Page: 1 of 1

S.No.	Fest Parameters	Units	Results	Test Method
Sampling Method & I				
Environmental Condi	tion : Temperature (*	C): 32.0 Humid	ity (%): 56.0	
Sample Location	* NA			
Sample Drawn By	+ M/s.Hubert En	viro care Systems (P)	Ltd, Sample quar	aity * NA
Sample Reference	INA.		Report Date	: 27/09/2024
Sample Mark	: Agoor		Completed Or	
Sample Name	[‡] Ambient Air(A	10	Contraction of the second	Date # 21/09/2024
Group	² Atmospheric P	ollution	Received Date	
Address of the Clic			110220200000000000000000000000000000000	
100 200 225			Sampling Date	± 21/09/2024
Name of the Client	[‡] M/s. SIPCOT		Sample ID No	+ 210924158
			Report No.	[‡] HECS/AP/080/210924/N

21401	rest rarameters	Quinta	Acsuits	rest srethou
Discipline :	Chemical			
I TVO	с	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02:07 2020

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

End of Report



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				TEST RE	ULR Report No.	Page ; TC12310240 ‡ HECS/AP/0	
Nam	te of the Client	* M/s. SIPCO	т		Sample ID No Sampling Date	: 210924159 : 21/09/2024	
Add	ress of the Client	: Tindivanan	a		sampling case	:21/09/2024	
Group ‡ Atmospher			ic Polluti	on	Received Date	: 21/09/2024	
Samp	le Name	* Ambient Ai	ir(All)			ne= 21/09/2024	
Samp	le Mark	2 Pelakuppar			Completed On	: 27/09/2024	
Samp	le Reference	: NA			Report Date	27/09/2024	
	le Drawn By		t Enviro	care Systems (P)	Ltd. Sample quant	iny + NA	
	ple Location	1 NA			11. INC		
	onmental Condition	: Temperatu : IS 5182 Par			lity (%) : 56.0		
Sampling Method & Plan : IS 5182 Pa S.No. Test Parameters		Units	Results	Test Method	NAAQ Stand	lards : 2009	
Disc	ipline : Chemical						
1	Arsenie		ng/m3	BLQ (LOQ: 2.0)	HECS-0/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel		ng/m3	BLQ (LOQ: 2.0)	HECS-G4NS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ		µg/m3	BLQ (LOQ: 0.1) 1S 5182 Part 11: 2006	5 (Annual)	5 (Annual)
Æ	Brnzo (a) pyrone A	AQ	ng/m ⁺	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	(Annuat)	1 (Annual)
4. 5	Benzo (a) pyrone-A. Animonia as NH3	AQ	ng/m/* µg/m*	BLQ (LOQ: 0.1) 8,44	IS : 5182 Part 12: 2004 IS 5182 (Part 25) 2018	t (Annuit) 400 (24 hours)	
5	and the second						
<u></u>	Ammonia as NH3	CO)	µg/m³	K.44	IS 5182 (Part 25) 2018 IS 5182 (Part 10) Chuse 4	400 (24 hours)	100 (Annual 2 (8 hours)
5	Ammonia as NH3 Carbon Monoxide (CO)	µg/m³ mg/ m³	8.44 BLQ(LOQ 0.05)	1S 5182 (Part 25) 2018 IS 5182 (Part 10) Clause 4 1999	400 (24 hours) 4 (1 hours)	100 (Annual 2 (8 hours) 40 (Annual)
5 6 7 8	Ammonia as NH3 Carbon Monoxide (9 Nitrogen dioxides a	CO) 5 NO2	pg/m ³ mg/ m ³ pg/m ⁴	8.44 BLQ(LOQ 0.05) 18.57	1S 5182 (Part 25) 2018 IS 5182 (Part 10) Clause 4 (999) IS 5182 (Part 6) 2005	400 (24 hours) 4 (1 hours) 80 (24 hours)	100 (Annual 2 (8 hours) 40 (Annual) 100 (8 bears
5 6 7	Ammonia as NH3 Carbon Monoxide (0 Nitrogen dioxides a Ozone as O3 Particulate matter (S	CO) s NO2 lize less than 10	μg/m ³ mg/ m ³ μg/m ⁴ μg/m ³	8.44 BLQ(LOQ 0.05) 18.57 12.39	1S 5182 (Part 25) 2018 IS 5182 (Part 10) Chause 4 1999 IS 5182 (Part 6) 2006 IS 5182 (Part 9) 1974	400 (24 hours) 4 (1 hours) 80 (24 hours) 180 (1 hours)	100 (Annual
5 6 7 8 9	Ammonia as NH3 Carbon Monoxide (9 Nitrogen dinxides a Ozone as O3 Paeticulate matter (5 µm) Paeticulate matter (5	CO) s NO2 lize less than 10 lize less than 2.5	μg/m ³ mg/ m ⁸ μg/m ³ μg/m ³	8.44 BLQ(LOQ 0.05) 18.57 12.39 55.80	1S 5182 (Part 25) 2018 IS 5182 (Part 10) Clause 4 (999) IS 5182 (Part 6) 2006 IS 5182 (Part 6) 2006 IS 5182 (Part 9) 1974 IS 5182 (Part 23) 2006	400 (24 hours) 4 (1 hours) 80 (24 hours) 180 (1 hours) 100 (24 hours)	100 (Annual 2 (8 hours) 40 (Annual) 100 (8 hours 60 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m1. Micrograms per cubic meter,

ing/m2-Milligrams per cubic meter, ng/m2-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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 HECS_CONFMICAB HECS-G/Q/FMT/49 Hubert Enviro Care Systems (P) Ltd. A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032. Ph: 42985555 / 43635555 Fax : 42985500 E-mail : labsales@hecs.in

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TEST REPORT

Page: 1 of 1

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					Report No.	3 HECS/AP/081/210924/N	
Name	of the Client	: M/s. SIPCOT			Sample ID No	: 210924159	
					Sampling Date	: 21/09/2024	
Address of the Client : Tindivanam							
Group		: Atmospheric Po	ollution		Received Date	: 21/09/2024	
Sample	Name	Ambient Air(A)	II)		Conunenced Da	te‡21/09/2024	
Sample	Mark	: Pelakuppam			Completed On	1 27/09/2024	
Sample	Reference	‡ NA			Report Date	: 27/09/2824	
Sample	Drawn By	* M/s.Hubert En	bert Enviro care Systems (P) Ltd. Sample quantity *NA			Y*NA	
Sampl	e Location	* NA					
Enviro	nmental Condition	* Temperature (*	C): 32.0 Humi	idity (%) : 56.0			
Sampli	ng Method & Plan	: IS 5182 Part 5	& Part 14				
S.No.	Test Pa	arameters	Units	Result	s	Test Method	
Discip	dine : Chemical		· · · · · · · · · · · · · · · · · · ·	- A			
1	TVOC		ppmv	BLQ(LOQ	0.1) HE	CS-G/ENV/AAQ/SOP/005 Issue	

No.:01 Issue Date:02:07 2020

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

End of Report



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				TEST RE	PORT ULR Report No.	Pag 1 TC1231024 2 HECS/AP/0	
Nari	ic of the Client	[‡] M/s. SIPCO)T		Sample ID No		
Add	ress of the Client	: Tindivanar			Sampling Date	: : 21/09/2024	
Group	р.:	: Atmospher	ic Pollut	ion	Received Dau	1 21/09/2024	
Samp	le Name	* Ambient A			Commenced I	Date # 21/09/2024	
	le Mark	: Urat			Completed Or	: 27/09/2024	
Samp	le Reference	* NA			Report Date Ltd. Sample quar	\$ 27/09/2024	
Envir	ole Location comental Condition ling Method & Plan	¹ NA	re (°C) :	care Systems (P) 32.0 Humie urt 14			
S.Ne		meters	Units	Results	Test Method	NAAQ Stan	dards : 2009
Disci	pline : Chemical						
1.	Arsenic		ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/041 Issue No :01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel		6g/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ		pg/m3	BLQ (LOQ: 0.1) IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyvene-A/	AQ	ng/un*	BLQ (LOQ: 0.1)	1S : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5:	Ammonia as NH3		µg/m ³	6.51	1S 5182 (Part 25) 2018	400 (24 hours)	100 (Annual
Ď	Carbon Monoxide (0	CO)	mg/ m*	BLQ(LOQ 0.05)	1S 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as	NO2	µg/m*	21.84	1S 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3		µg/m ³	13.77	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
9	Particulate matter (S jrm)	ize less than 11)	µg/m ³	49.53	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (S µm)	ize less than 2.5	µg/m³	18.64	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as S	iO2	µg/m ¹	9.22	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead		µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No01 Issue Date-01.03 2021	1 (24 hours)	0.5 (Annual

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

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

End of Report



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TEST REPORT

Page | 1 of 1

S.No.	Test Pa	arameters	Units	Results		Test Method	
Sampling Met		: IS 5182 Part 5 &		ay 1 at 1 2000			
Environmenta	Condition	* Temperature ("	Che 32.0 Humid	ity (%): 56.0			
Sample Loca	tion	* NA					
Sample Drawr	By	I M/s.Hubert Env	iro care Systems (P)	Ltd. S	Sample quantity *NA		
Sample Refere	STRICK.	= NA			Report Date #27/09/2024		
Sample Mark		: Ural		c	ompleted On	= 27/09/2024	
Sample Name		* Ambient Air(Al	0			te#21/09/2024	
Group		: Atmospheric Po	llution		eceived Date	\$ 21/09/2024	
Address of i	he Client	: Tindivanam					
				Sa	ampling Date	: 21/09/2024	
Name of the	Client	# M/s. SIPCOT		5.	unple ID No	: 210924160	
				R	eport No.	* HECS/AP/082/210924/N	

Disc	ipline : Chemical			
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No:01 Issue Date:02:07 2020

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

End of Report



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[m]:8:476[m]



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			TEST	REPORT	Page	: 1 of 4	
固				ULR	: TC12310240	0000460061	
	Carl State			Report No.	÷ HECSL/WI	/038/210924	
Name	of the Client	3 M/s. SIPCOT		Sample ID N	0 :210924162		
				Sampling Do	tc : 21/09/2024		
Addre	ess of the Client	: Tindivanam					
Group		: Water		Received Da	ie : 21/09/2024		
Sampl	e Name	Ground Water	r.	Commenced	Date: 21/09/2024		
Sampl	e Mark	: Near Agoor Completed On #30/09/2					
Sampl	e Reference	: NA		Report Date	Report Date \$30/09/2024		
CU 1945	e Drawn By	: M/s. Hubert Er	aviro care Systems	(P) Ltd. Sample qua	Sample quantity 11 Litres		
Samp	le Location	÷ NA					
	nmental Condition ing Method & Plan	: Temperature : 1S 17614(Part		nidity (%) : 50.0			
S.Nu.	Test Parameters	Units	Results	Test Method	18 1050	0 : 2012	
1.5715271					Acceptable Limits (Max)	Permissible Limits (Max)	
Discip	pline : Chemical		1.5		A AND ANY	- 3 40 0 11 000 00	
1	Ammonia as NH3	med	BLOG 00:0.021	1S 3025 Part 34:Sec 7: 3021 (0.5	No relaxation	

_					(MEAN)	Limits (Max)
Disc	ipline : Chemical					
	Ammonia as NH3	ngd	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 3: 3021 (Nesslerization Method)	0.5	No relaxation
1	Anionic Surface Active agents as MBAN	ing/1	B1.Q(LOQ:0.05)	APHA 23rd edition (Method 5540 B _C): 2017	0.2	E.
3	Bi carbonate	.mg/l	270.0	15 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD) # 27°C For 3 days	mg/I	BLQ(LOQ:2.0)	1S 3025 Part 44: 1903	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	15 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
ĥ	Calcium as Ca	mg/l	72.14	1S 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
2	Carbonate	nig/1	BLQ(LOQ:1.0)	18:3025 Part 51:2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(1/OQ:1.0)	15 3025 Part 58, 2006	NA	NA
ų.	Chloride as Cl	ung/l	161.67	15 3025 Part 32, 1988 (Argentometric Methods	250	1000
10	Colour	Hazen units	BLQL0Q.1.9)	IS 3025 (Part4): 2021	5	15
II.	Cyanide as CN	mg/l	BLQ(LOQ.0.01)	15 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	0.6	18 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



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回忆空间

20

21

22

23

24

Phenolic compounds as

C6H5OH

Carbonate

Ratio(SAR)

Sodium as Na

Potassium as K

Residual Sodium

Sodium Adsorption



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			TES	T REPORT		Page	: 2 of 4
同時	12000				ULR	: TC12310240	00046006F
	1 The second				Report No.	HECSL/WI	7038/210924
Name	of the Client	1 M/s. SIPCOT			Sample ID No	:210924162	
					Sampling Date	: 21/09/2024	
Addr	ess of the Client	: Tindivanam					
Group	learne -	: Water			Received Date	: 21/09/2024	
Sample Name :		: Ground Water			Commenced I	Date: 21/09/2024	
Sampl	e Mark	: Near Agoor			Completed Or	: 30/09/2024	
Sampl	e Reference	: NA			Report Date	: 30/09/2024	
Sampl	e Drawn By	: M/s.Hubert En	viro care Syste	ms (P) Ltd.	Sample quan	tity : 1 Litres	
Samp	le Location	[±] NA					
	inmental Condition ing Method & Plan	Temperature (* IS 17614(Part-)		Humidity (%) : 50	.0		
S.Na.	Test Parameters	Units	Results	Test M	fetbod	15 10506	+ 2012
						Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivit 25°C	y at µS/cm	1119.0	1S 3025 Pa	rt-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.49	APHA 23rd editio B , D)	n (Method 4500F- :: 2017	1.0	1.5
15	Iron as Fe	mg/l	0.076	1S 3025 (Pa	irt 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	38.88	A REAL PROPERTY OF A REAL PROPER	1994 (Valumetric ing EDTA)	30	100
17	Nitrate as NO3	mg/l	9.34	10000	ion (Method 4500): 2017	45	No relaxation
18	Percent Sodium	55	33,39	HECS/WT/S	OP/02 2019	NA	NA
					OLLOWST SALA	14/8	1111

Electrometric method)

1S 3025 Part 43 Sec 1: 2022

IS 3025 Part 45: 1993 (Fleme

emission Photometric Method)

IS 11624: 2019

15 11624 : 2019

IS 3025 Part 45: 1993 (Fleme

emission Photometric Method)



BLQ(LOQ:0.00

1)

7.0

BLQ(LOQ:1.0)

1.90

\$1.0

mg/l

mg/l

Square root of

(millimole/lit

mg/l

meq/l

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100.0

NA

NA

NA

NA

0.002

NA

NA

NA

NA

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붋	時代に日		TEST	REPORT	Page	= 3 of 4	
間				ULR	: TC12310240	000046006F	
	E-SETASSA			Report No.	: HECSL/WI	/038/210924	
Name	of the Client	: M/s. SIPCOT		Sample ID I	No : 210924162		
Addro	ess of the Client	: Tindivanam		Sampling D	ate : 21/09/2024		
Group		1 Water		Received D	ate : 21/09/2024		
Sampl	e Name	: Ground Water Commenced Date: 21/09/2024					
Sampl	e Mark	: Near Agoor		Completed	sd On = 30/09/2024		
Sampl	e Reference	: NA		Report Date	: 30/09/2024		
Samp Envire	e Drawn By le Location numental Condition ing Method & Plan	: M/s.Hubert E : NA : Temperature : IS 17614(Part		(P) Ltd. Sample qu midity (%) : 50.0	antity [÷] 1 Litres		
S.No.	Test Parameters	Units	Results	Test Method	15 10500	± 2012	
					Acceptable Limits (Max)	Permissible Limits (Mas)	
25	Sulphate as SO4	mg/l	47.36	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	-400	
26	Total alkalinity as CaC	2O3 mg/l	270.0	IS 3025 (Part 23): 1986	200	600	
27	Total disselved solids	ngA	627.0	IS 3025 (Part 16): 1984	500	2000	
25	Total Summered Solid	. mad	810000200	IS 3025 (Beet 17): 1084	NA	b14	

		10.694	COURSES IN	Turbidity Method)		
26	Total alkalinity as CaCO3	mg/l	270.0	IS 3025 (Part 23): 1986	200	600
27	Total disselved solids	ngA	627.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphote as PO4	mg/l	0.12	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mgd	0.037	IS 3025 Part 31 Sec 1: 2022 (NA Stannous Chloride method)		NA
31	Total hardness as CaCO3	ng/l	340.0	IS 3025 (Part 21): 2009	2:00	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	ing/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 ± 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relacation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5

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mentioned:
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					1	(Max)	Permissible Limits (Max)	
S.No.	Test Parameters	rs Units Results Test		Test Method		IS 10500	2012	
100 C 100 C	nental Condition Method & Plan	Temperature (°C Signal Science (°C): 18 17614(Part-1)	2월 문문제 2011년 1월 1971년 1	aidity (%) : 50.0				
1999 (1999) (1999) (1999) (1999) (1999)	Location	- NA						
	Jrawn By	: M/s.Hubert Env	iro care Systems	(P) Ltd. S	Sample quantity = 1 Litres			
Sample B	Leference	: NA			eport Date	1 30/09/2024		
Sample M	dark	: Near Agoor		C	ompleted On	: 30/09/2024		
Sample N	Vame	: Ground Water		c	ommenced Da	te: 21/09/2024		
Group		: Water		R	eceived Date	: 21/09/2024		
Address	of the Client	: Tindivanam		~*	and may rear	. 2110 77 2024		
Name of	T the Client	: M/s. SIPCOT			ample ID No ampling Date	: 210924162		
	i se				eport No.	HECSL/WT	/038/210924	
活动。	49.42			U	LR	: TC12310240	00046006F	
諁			TEST I	REPORT		Page	4 of 4	

CALLARY.				2.304E #00404E436			
					Acceptable Limits (Max)	Permissible Limits (Max)	
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation	
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.1	0.3	
40	Mercury	mgʻi	BLQ (LOQ: 0.0005)	USEPA 200.8 ± 1994	0.001	No relaxation	
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation	
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 ± 1994	0.01	No relaxation	
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 ; 1994	5	15	

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

End of Report



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TEST REPORT

Page: 1 of 1

					Report No.	HECSL/WT/038/210924/	
Name	of the Client	3 M/s. SIPCOT			Sample ID No	: 210924162	
Addre	ess of the Client	: Tindivanam			Sampling Date	; 21/09/2024	
Group		[‡] Water			Received Date	: 21/09/2024	
Sample	Name	: Ground Water			Commenced Date: 21/09/2024		
Sample	Mark	: Near Agoor			Completed On	: 30/09/2024	
Sample	e Reference	: NA			Report Date	: 36/09/2024	
Sample Drawn By Sample Location		* M/s.Hubert Env * NA	iro care Systems (I	Sample quantity 1 Litres			
	nmental Condition ng Method & Plan	² Temperature (*) 2 IS 17614(Part-1)		idity (%) : 50.0			
S.No.	Test Pa	rameters	Units	Results	E.	Test Method	
Discip	line : Chemical						
1	Hexavalent Chromium as Cr6+		mg/l	BLQ(LOQ:	1.01) 15	3025 Part 52: 2003 (Dipheny) Carbazide method)	

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

End of Report



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12

Disselved oxygen



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			TEST	REPORT	Page : TC12310240	: 1 of 4
H	深刻			Report No.	: HECSL/WT	
Name	of the Client	: M/s. SIPCOT		Sample ID No		/039/210924
1 sana	of the criteri	- 000.001		Sampling Date		
Addr	ess of the Client	: Tindivanam		conduction of the		
Group		: Water		Received Date	: 21/09/2024	
Samp	le Name	: Ground Water	6	Date: 21/09/2024		
Samp	le Mark	: Botheri		Completed Or	: 30/09/2024	
Samp	ie Reference	‡NA		Report Date	: 30/09/2024	
Samp	le Drawn By	: M/s.Hubert Er	iviro care System	s (P) Ltd. Sample quan	tity 1 Litres	
Samp	le Location	INA				
1000	onmental Condition ing Method & Plan	Temperature (S 17614(Part-	-1):2021	amidity (%) : 50.0		
5.No.	Test Parameters	Units	Results	Test Method	IS 10500):2012
					Acceptable Limits (Max)	Permissible Limits (Max)
Disci	pline : Chemical	1	10			
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Activ agents as MBAS	re mg/t	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
	Bi carbonate	ma/l	260.0	1S 3025 Part 51: 2001	NA	NA

						The contract of the second
Disc	ipline : Chemical		<u> </u>			110
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/t	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	mg/l	260.0	1S 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/I	BLQ(LOQ:2.0)	1S 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	68.14	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	460.52	1S 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation



6.6

mg/l

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1S 3025 (Part 38): 1989 (Titrimetric

Method)

NA

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NA

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				Acceptable Limits	Permissible	
S.No. Test Paran	ors Units	Results	Test Method	LS 10500	2012	
Sampling Method & Pla	: IS 17614(Part-1)		uniy (76) : 30.0			
Environmental Conditio	: Temperature (°C	3+ 28 0 1 Hum	idity (%) : 50.0			
Sample Location	÷NA		anner energiere			
Sample Drawn By	: M/s.Hubert Envi	iro care Systems ()	9 Ltd. Sample quan	Sample quantity 1 Litres		
Sample Reference	: NA		Report Date	: 30/09/2024	: 30/09/2024	
Sample Mark	: Botheri		Completed Or	: 30/09/2024		
Sample Name	: Ground Water		Commenced I	Date: 21/09/2024		
Group	: Water		Received Date	: 21/09/2024		
Address of the Client	: Tindivanam					
sume of the chem	- matan con		Sampling Date			
Name of the Client	3 M/s. SIPCOT		Sample ID No		10.3 21 4 10 7 4 4	
			Report No.	HECSL/WT		
		TEST R	EPORT ULR	Page : TC12310240	: 2 of 4	

8.799.	test rarameters.	CRHS	ACHIER	a circ pacinou	15 10309 - 2012		
					Acceptable Limits (Max)	Permissilde Limits (Max)	
13	Electrical Conductivity at 25°C	µS/cm	1805.0	IS 3025 Part-14: 2013	NA	NA	
14	Fluoride as F	8gm	0.44	APHA 23rd edition (Method 4500F- B , D): 2017	1.0	1.5	
15	hon as Fe	mg/i	0.057	1S 3025 (Part 53): 2003	1.0	No relaxation	
16	Magnesium as Mg	mgg	36.45	IS 3025 Part 46: 1994 (Valumetric 30 Method using EDTA)		100	
17	Nitrate as NO3	mg/I	6.34	APHA 23rd edition (Method 4500 NO3B): 2017	CALL AND		
18	Percent Sodium	%	58.16	HECS /WT/SOP/002:: 2019 NA		NA	
19	pH at 25°C	5	7.68	IS 3025(Part 11) : 2022.(Electrometric method)	6.5-8.5	No relaxation	
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.00 1)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002	
21	Potassium as K	mg/l	17.0	1S 3025 Part 45: 1993 (Fieme emission Photometric Method)	NA	NA	
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019 NA		NA	
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	5.33	1S 11624 : 2019 NA		NA	
24	Sodium as Na	mg/l	220.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA	



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回报校园

36

37

Chromium

Copper



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62	KAR.			TEST	REPORT		Page	e: 3 of 4
13	THE AND					ULR	: TC1231024	
	CELES .					Report No.	HECSL/W	
Name	of the Client	: M/s.	SIPCOT			Sample ID No.	: 210924163	parana na mana mana kao N
						Sampling Date	: 21/09/2024	
Addre	ess of the Client	: Tine	fivanam					
Group		; Wat	ler			Received Date	: 21/09/2024	
Sampl	e Name	: Gro	und Water			Commenced D	ale: 21/09/2024	
Sampl	e Mark	: Both	heri			Completed On	: 30/09/2024	
Sampl	e Reference	: NA				Report Date Sample quant	: 30/09/2024	
Envire	le Location onmental Condition ing Method & Plan		iperature (' 7614(Part-		midity (%) : 50.0	- 55 - 515	0. 594999103	
S.No. Test Parameter		6 T	Units	Results	Test Meth	bid	15 1050	0 : 2012
							Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4		mg/l	91.36	1S 3025 Part 24 Se Turbidity Me	16.04.900 pp 6400 - 1	200	400
2.6	Total alkalinity as Ca	CO3	mg/l	260.0	IS 3025 (Part 2	3): 1986	200	600
27	Total dissolved solids		mg/l	1017.0	IS 3025 (Part 1)	6): 1984	500	2000
28	Total Suspended Soli	ds	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 1	7): 1984	NA	NA
29	Phosphate as PO4		mg/l	0.094	4S 3025 Part 34 Se Stannous Chlorid		NA	NA
30	Phosphorous as P		mg/l	0.028	IS 3025 Part 31 Se Stannous Chlorid	C1000 C1000 C100	NA	NA
31	Total hardness as Cal	03	mg/1	320.0	IS 3025 (Part 2	1): 2009	200	600
32	Turbidity, NTU		NTU	BLQ(LOQ:0.1)	1S 3025 (Part 1	0): 1984	1	5
33	Arsenic		mgđ	BLQ (LOQ: 0.005)	USEPA 200.8	; 1994	0,01	No relaxation
34	Bacium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8	: 1994	0.7	No relaxation
35	Cadmium		mg/l	BLQ (LOQ:	USEPA 200.8	: 1994	0.003	No relaxation



0.001)

BLQ (LOQ:

0.01)

BLQ (LOQ:

0.01)

mg/l

mg/l

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USEPA 200.8 ± 1994

USEPA 200.8: 1994

0.05

0.05

No relaxation

1.5

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1

S.No.	Test Parameters	Units	Results	Test Method	1 10 10	00 : 2012	
200000000	nental Condition Method & Plan	: Temperature (* : IS 17614(Part-1		midity (%) : 50.0			
	Location	⁺ NA					
Sample D	Jrawn By	: M/s.Hubert Env	iro care Systems	(P) Ltd. Sample	Sample quantity ² I Litres		
Sample R	teference	÷ NA		Report I	Report Date \$30/09/2024		
Sample N	dark	: Botheri		Complet	ed On : 30/09/2024	4	
Sample N	lame	: Ground Water		Commer	need Date: 21/09/2024	F	
Group		² Water		Receiver	i Date : 21/09/2024	6	
Address	of the Client	: Tindivanam		Samping	Ervic Crivew2024	ES.	
Name of	the Client	: M/s. SIPCOT		Sample I Samplin			
回该	正 225			Report N		/T/039/210924	
花算。	4848) 			ULR	: TC123102	4000046007F	
孫於			TEST	REPORT	Pa	ge : 4 of 4	

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012		
					Acceptable Lindty (Max)	Permissible Limits (Max)	
38	Lead	mgA	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation	
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3	
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation	
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation	
42	Selenium	.mg/1	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation	
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15	

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

End of Report



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TEST REPORT

Page : 1 of 1

					Report No.	3 HECSL/WT/039/210924/	
Name	of the Client	[±] M/s. SIPCOT			Sample ID No	: 210924163	
Address of the Client		: Tindivanam			Sampling Date	21/09/2024	
Groop		2 Water			Received Date	: 21/09/2024	
Sample	Name	Ground Water		Commenced Date: 21/09/2024			
Sample Mark		: Botheri			Completed On	30/09/2024	
Sample Reference		: NA			Report Date	: 30/09/2024	
Sample	e Drawn By	: M/s.Hubert Env	iro care Systems (F	Sample quantity : 1 Litres			
Sampl	le Location	[‡] NA					
	nmental Condition ng Method & Plan	: Temperature (°C : IS 17614(Part-I)	C): 28.0 Humi):2021	idity (%) : 50.0			
S.No.	Test Pa	arameters	Units	Result	IS	Test Method	
Discip	dine : Chemical						
1	Hexavalent Chromium as Cr6+		mg/l	BLQ(LOQ	0.01) 15	3025 Part 52: 2003 (Diphenyl Carbazide method)	

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/1- Milligrams per liter.

End of Report



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			TEST	REPORT ULR Report No.	: TC12310240 ¹ HECSL/W1			
Name	of the Client	M/s. SIPCOT		Sample ID ?				
Addro	ess of the Client	: Tindivanam		Sampling D	ste : 21/09/2024			
Group	-	: Water		Received D	ne : 21/09/2024			
Sampl	ie Name	Ground Water	r)	Commenced	Commenced Date: 21/09/2024			
Sampl	e Mark	: Near Project S	lite	Completed	pleted On 30/09/2024			
Sampl	ie Reference	: NA		Report Date	: 30/09/2024			
Samp Enviro	le Location onmental Condition	- NA		umidity (%) : 50.0	utity ² 1 Litres			
S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012			
					Acceptable Limits (Max)	Permissible Limits (Max)		
Disci	pline : Chemical		A		5NU2			
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation		
2	Anionic Surface Active agents as MBAS	: mg/l	BLQ(LOQ-0.05)	APHA 23rd edition (Method 5540 , C): 2017	B 0.2	1		

				A CONTRACT OF A		a second s
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	mgЛ	250.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	15 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	S 3025 Part 57 -Curcumin Method: 0.5 2021		2.4
6	Calcium as Ca	mg/l	60.12	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	15 3025 Part 58: 2006	NA	NA
0	Chloride as Cl	mg/l	191.06	1S 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	1S 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



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T				TEST	REPORT	ULR		: 2 of 4	
	建建					Report No.	: TC12310240 HECSL/WT		
Name	of the Client	: M/s.	SIPCOT			Sample ID No	: 210924164	1010/210721	
						Sampling Date	: 21/09/2024		
Addre	ss of the Client	: Tind	livanam						
Group		Wat	er			Received Date	: 21/09/2024		
Sample	e Name	Grou	und Water			Commenced Date: 21/09/2024			
Sample	e Mark	: Near	Project Sit	e		Completed On	: 30/09/2024		
Sample	e Reference	: NA	0.01455-00400			Report Date	: 30/09/2024		
Sample	e Drawn By	1 M/s.	Hubert Env	iro care Systems	(P) Ltd.	Sample quantity : Litres			
Samp	le Location	= NA							
100000	nmental Condition ng Method & Plan		perature (°0 7614(Part-1)		midity (%) : 50.0				
S.No.	Test Parameters	2	Units	Results	Test Me	thod	15 10500	; 2012	
		_	////				Acceptable Limits (Max)	Permissible Limits (Max)	
4.4	Pre		47.4	1000	and the second second second	A A MARKED A			

5,710,	T COL T AT ADDILLET T	source mark	19930465	- A USA (SDFG000	15 10500 1 2012		
					Acceptable Limits (Max)	Permissible Limits (Max)	
13	Electrical Conductivity at 25°C	µS/cm	1062.0	1S 3025 Part-14: 2013	NA	NA	
14	Fluoride as F	nga	0.45	APHA 23rd edition (Method 4500F- B , D): 2017	1.0	1.5	
15	Iron as Fe	rag/1	0.056	15 3025 (Part 53): 2003	1.0	No relaxation	
16	Magnesium as Mg	ngri	29.16	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100	
17	Nitrate as NO3	mig/4	11.44	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation	
18	Percent Sodium	%	41.33	HECS /WT/SOP/002:: 2019 NA		NA	
19	pH at 25°C	-	7.68	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation	
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.00 1)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002	
21	Potassium as K	mg/I	7.0	1S 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA	
22	Residual Sodium Carbonate	inted ₁	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA	
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	2.40	IS 11624 : 2019 NA		NA	
24	Sodium as Na	ngA	91.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA	



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					Acceptable Limit (Max)	 Permissible Limits (Max)
S.Na.	Test Parameters	Units	Results	Test Method	IS 105	900 : 2012
	mental Condition g Method & Plan	Temperature (°C IS 17614(Part-1)	1 C. C. C. C. C. C. C. P. C.	nidity (%) : 50.0		
	Drawn By Location	: M/s.Hubert Euv : NA	iro care Systems	(P) Ltd. Sample	equantity - 1 Latres	
	Reference	: NA	-	Report	Date 30/09/202- equantity 1 Litres	4
Sample		: Near Project Sit	e	Comple		
Sample	Name	[‡] Ground Water			moed Date: 21/09/202/	
Group		= Water		Receive		
Addres	s of the Client	: Tindivanam		0.0000		
Name o	of the Client	: M/s. SIPCOT		Sample		
	HE CONTRACTOR			Report 1	No. HECSL/W	/T/040/210924
驟			TESTI	REPORT ULR		ge : 3 of 4 4000046008F

					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	51.26	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	400
26	Total alkalinity as CaCO3	mg/l	250.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	596.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	2.0	ES 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO4	mg/l	0.081	ES 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	P\gm	0.025	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO3	mg/l	270.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	1.4	1S 3025 (Part 10): 1984	1	5
33	Arsenic	mg/1	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	ngđ	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	ing/1	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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的全部			ULI	1.500	: TC1231024000046008F	
Name of the Client	TALL CIDEN	in the second		ort No.	3 HECSL/WT/040/210924	
Name of the Chent	: M/s, SIPCO	51		ple ID No	: 210924164	
Address of the Clie	t : Tindivanai	m	Sam	pling Date	: 21/09/2024	
Group	: Water		Reco	eived Date	1 21/09/2024	
Sample Name	Cround W	nter	Con	unenced Dat	te: 21/09/2024	
Sample Mark	: Near Proje	et Site	Con	upleted On	: 30/09/2024	
Sample Reference	÷ NA		Rep	ort Date	: 30/09/2024	
Sample Drawn By	: M/s.Huber	t Enviro care System	ms (P) Ltd. San	Sample quantity 1 Litres		
Sample Location	= NA	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1999/999/041 77.07			
Environmental Condi	ion : Temperate	re (°C) : 28.0 1	lumidity (%) : 50.0			
Sampling Method & I						
S.Nu. Test Par	uneters Unit	ts Results	Test Method		1S 10500 : 2012	
100000000000000000000000000000000000000				_		

S.Nu.	Test Parameters	Fest Parameters Units	Results	Test Method	1S 10500 : 2012		
					Acceptable Limits (Max)	Permissible Limits (Max)	
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation	
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3	
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation	
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation	
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 ; 1994	0.01	No relaxation	
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	5	15	

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

End of Report



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TEST REPORT

Page: 1 of 1

					Report No.	HECSL/WT/040/210924/
Name	of the Client	: M/s. SIPCOT			Sample ID No	: 210924164
					Sampling Date	: 21/09/2024
Addre	ess of the Client	: Tindivanam				
Group		: Water			Received Date	: 21/09/2024
ample	Name	- Ground Water		Commenced Date 1 21/09/2024		
Sample	Mark	: Near Project Sit	e	Completed On	: 30/09/2024	
Sample Reference		: NA			Report Date	: 30/09/2024
Sample	r Drawn By	= M/s.Hubert Env	viro care Systems (P	Sample quanti	ty 1 Litres	
Sampl	e Location	¹ NA	2. B			
	nmental Condition ng Method & Plan	[‡] Temperature (° [‡] IS 17614(Part-)		dity (%) : 50.0		
S.No.	Test Pi	trameters	Units	Result	ts	Test Method
Discip	dine : Chemical					
E	Hexavalent Chromi	um as Cr6+	mg/l	BLQ(LOQ	:0.01) IS	3025 Part 52: 2003 (Diphenyl Carbazide method)
			Particular and a second se			the price of the second s

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

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Name of the Client : M/s. SIPCOT Address of the Client : Tindivanam		TE	<u>ST REPORT</u>	ULR : TC123102		
intep		1 Water			Received Date 3 21/09/2024	8
Sample	Name	- Surface Water	N		Commenced Date 21/09/2024	6
Sample		; Lake Near Viz	hukkuam		Completed On = 30/09/2024	
0.02.0	Reference	: NA			Report Date \$30/09/2024 Sample quantity \$1 Litres	
	Drawn By	1 M/s.Hubert E NA	nviro care Sys	tems (P) Ltd.	Sample quantity -1 Latres	
11 M M M M M	e Location nmental Condition	Temperature	(°C) : 28.0	Humidity (%) : :	50.0	
	ng Method & Plan	: IS 17614(Part		training (raf).		
S.No.	Test Pa	rameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A
Discip	line : Chemical					*******
1	Ammonia as NH3		mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate		mg/l	110.0	1S 3025 Part 51: 2001	NA
3	Biological Oxygen I 27 ⁴ C For 3 days	Demand (BOD)(a	mg/1	BLQ(LOQ:2.0)	15 3025 Part 44: 1993	2
4	Boron as B		mg-1	BLQ(LOQ:0.1)	1S 3025 Part 52: 2021 (Curcumon Method)	NA
5	Calcium as Ca		mg/l	52.10	15 3025 Pari 40: 1991(EDTA Turimetric Method)	80.10
0	Chemical Oxygen E	Demand (COD)	mg/1	BLQ(LOQ:4.0)	1S 3025 Part \$8: 2006	NA
7,	Chloride as Cl		Pagen	112.68	IS 3025 Part 32: 1988 (Argentometric Method)	250
N	Colour		Hagen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen		eng/1	6.8	15.3025 Part 38; 1989	6
10	Electrical Conduction	vity at 25°C	µS/cm	778.0	1S:3025 Part 14: 2013	NA
11	Fluoride as F		mg/l	0.41	APHA 23rd edition Method 4500 F -B.D: 2017	1.5
12	fron as Fe		mµ/(0,058	15.3025 Part 53: 2003	0.3
13	Nitrate as NO3		mg/l	9.22	APHA 23rd edition Method 4500 NO3B: 2017	257



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			TE	ST REPORT	ULR : TC123102	ege : 2 of 4 24000046009F VT/041/210924
Name	of the Client	+ M/s. SIPCOT			Sample ID No : 21092416	5
Addre	ss of the Client	: Tindivanam			Sampling Date ± 21/09/202	4
Group		: Water			Received Date # 21/09/202	4
	Name	Surface Water	(AII)		Commenced Date # 21/09/202	4
Sample	Mark	: Lake Near Vizh	ukkuam		Completed Ou # 30/09/202	4
205-010	e Reference	: NA			Report Date # 30/09/202	4
	Drawn By	: M/s.Hubert En	viro care Syst	tems (P) Ltd.	Sample quantity #1 Litres	
Enviro	le Location nmental Condition ng Method & Plan	* NA * Temperature (* : IS 17614(Part-		Humidity (%) :	50.0	
S.No.	Test Pa	rameters	Units	Results	Test Method	Surface water Standards (1S 2296 Class-A
14	pH at 25°C			7.67	15 3025 Part 11: 2022 (Electrometric Method)	Sec. et
15	Total dissolved solu	die .	mg/l	436.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Ac	tive agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	0.2
17	Carbonate		mgd	BLQ(LOQ 1.0)	IS 3025 Part 51: 2001	NA
18	Cynnide as CN		mg/l	BLQ(LOQ:0.01)	18-3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg		mg/l	26.73	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	24,28
20	Percent Sodium		\$4	34,60	HECSG /WT/SOP/002 Issue No:01,Issue date 18:12: 2021	NA
21	Phenolic compound	s as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	0,002
22	Phosphate as PO4		Pagen	0.051	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K		mg/l	4.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate		mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption	Ratio(SAR)	Square root of (millimole/lit	1.71	IS 11624; 2019	NA



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			п	EST REPORT	ULR : TC1231	Page : 3 of 4 024000046009F /WT/041/210924
Name	of the Client	[‡] M/s. SIPCOT			Sample ID No 22109241 Sampling Date 221/09/20	5.5.25
Addre	ess of the Client	: Tindivanam				
Group		* Water			Received Date \$ 21/09/20	124
Sample	Name	* Surface Water	(All)		Commenced Date # 21/09/20	22.03
Sample		: Lake Near Vizi	hukkuum		Completed On \$30/09/20	
Sample Sampl Enviro	Reference Drawn By e Location nmental Condition ng Method & Plan	* NA * M/s.Hubert En * NA * Temperature (* IS 17614(Part-	°C): 28.0	stems (P) Ltd. 1 Humidity (%) : 50	Report Date 30/09/20 Sample quantity ² 1 Litres	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m
S.No.	Test Pa	rameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A
26	Sodium as Na		mg/l	61.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO4		mg/l	21,44	15 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as C	aCO3	reg/l	110.0	1S 3025 Part 23: 1986	NA
29	Total Hardness as C	aCO3	mg/l	240.0	1S 3025 Part 21: 2009	300
30	Total Phosphorous	as P	mp/l	BLQ(LOQ:0.02)	1S 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended So	dida	ngA	BLQ(LOQ:2.0)	IS 3025 Part 17: 1984	NA
32	Turbidity		NTU	BLQ(LOQ 0.1)	15 3025 Part 10: 1984	1
33	Acsenic		mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium		mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper		isg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead		mg/l	BLQ (LOQ; 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 1994	0.5



mg/l

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USEPA 200.8 : 1994

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BLQ (LOQ

(0.0005)

0.001

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S.No.	Test P	urumeters	Units	Results	Test Met	hod	Surface water Standards
	ntal Condition Method & Plan	* Temperature * IS 17614(Part		Humidity (%) : 50	0.0		
Sample Lo		‡NA					
Sample D	Drawn By	2 M/s.Hubert I	čaviro care Syst	ems (P) Ltd.	Sample quanti	ty 1 Litres	
Sample R	teference	I NA			Report Date	30/09/202	4
Sample M	lark	1 Lake Near Vi	izhukkuam		Completed On	+ 30/09/2024	5
Sample N	anse	* Surface Wate	er (AB)		Commenced Da	te: 21/09/202/	1
Group		t Water			Received Date	: 21/09/2024	1
Address	of the Client	: Tindivanans					
Name of	f the Client	+ M/s. SIPCOT			Sample ID No Sampling Date	: 210924165 : 21/09/2024	
TELF-2	2724	1519 (J. 1822) (J. 18			Report No.		T/041/210924
正规	26. AL				ULR		4000046009F
C.K			TES	ST REPORT		Pa	ge : 4 of 4

neton.	Constraints Constraints	100000		15020104232018859	Standards (IS 2296 Class-A)
41	Nickel	mg/t	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	NA
42	Selenium	mgA	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	15

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

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TEST REPORT

Page : 1 of 1

					Report No.	HECSL/WT/041/210924/N	
Name	of the Client	: MA, SIPCOT			Sample ID No	: 210924165	
Addri	ess of the Client	: Tindivanam			Sampling Date	: 21/09/2024	
Group		* Water			Received Date	: 21/09/2024	
Sample	: Name	¹ Surface Water (All)			Commenced Dat	e= 21/09/2024	
Sample	: Mark	: Lake Near Vizhukkuum			Completed On	= 30/09/2024	
Sample	e Reference	* NA	* NA			= 30/09/2024	
SULPS	e Drawn By le Location	: M/s.Hubert Env NA	iro care Systems (1	') Ltd.	Report Date # 30/09/2024 Sample quantity # 1 Litres		
	nmental Condition ng Method & Plan	* Temperature (* + IS 17614(Part-1		dity (%) : 50.0			
S.No.	Test Pa	arameters	Units	Results	E.	Test Method	
Discip	line : Chemical					Later in constraints	
1	Hexavalent Chrom	ium	mg/l	BLQ(LOQ-0	0.01)	IS 3025 Part 52: 2003	
			and the second se	and the second se	California de la calegra de		

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



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		TE	ST REPORT	ULR : TC123102 Report No. + HECSL/W	se : 1 of 4 4000046010F T/042/210924	
Name of the Client * M/s, SIPCOT				Sample ID No : 210924166 Sampling Date : 21/09/2024		
Addres	ddress of the Client : Tindivanam					
Group		* Water			Received Date # 21/09/2024	
Sample Name Surface Water				Commenced Date # 21/09/2024		
Sample Mark : Lake Near Bot		theri		Completed On : 30/09/2024		
Sample Sample Environ	Reference Drawn By e Location nmental Condition og Method & Plan	* NA * M/s.Hubert E * NA * Temperature * IS 17614(Part	("C): 28.0	tems (P) Ltd. Humidity (%) : :	Report Date \$30/09/2024 Sample quantity \$1 Litres 50.0	
S.No.		rameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A
Discipl	line : Chemical		1			
1	Anumonia as NH3		mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate		mg/l	220.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen 27°C For 3 days	Demand (BOD)@	ing/l	3.0	IS 3025 Part 44: 1993	2
4	Boron as B		mg/l	BLQ(LOQ:0.1)	15 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca		mg/l	48.09	JS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen E	Demand (COD)	mg/l	BLQ(LOQ 4.0)	15 3025 Part 58: 2006	NA
7	Chloride as Cl		ngA	107.78	1S 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour		Hazen units.	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Disselved oxygen		mg/l	6.2	1S 3025 Part 38: 1989	6
10	Electrical Conducti	vity at 25°C	µS/cm	743.0	1S:3025 Part 14: 2013	NA
11	Fluoride as F		mg/l	0.39	APHA 23rd edition Method 4500 F -B,D: 2017	1.5
12	tron as Fe		ng/t	0.051	15 3025 Part 53: 2003	0.3
13	Nitrate as NO3		mgA	8:74	APHA 23rd edition Method 4500	20



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Name of the Client + M/s. SIPCOT		IE	<u>ST REPORT</u>	ULR : TC123102 Report No. : HECSL/W	gc : 2 of 4 4000046010F VT/042/210924		
Name	of the Client	* M/s. SIPCOT			Sample ID No + 210924160		
Addre	ss of the Client	: Tindiyanam			Sampling Date 1 21/09/202	•	
Group		‡ Water			Received Date 21/09/202	4	
Sample Name Surface Water		All)		Commenced Date \$ 21/09/2024			
Sample Mark : Lake Near Bo		eri		Completed On 30/09/202	4		
Sample Reference # NA		A STATE AND A STATE AND A STATE OF			Report Date # 30/09/2024		
Sampl Enviro	Drawn By e Location nmental Condition ng Method & Plan	: M/s.Hubert En : NA : Temperature (* : IS 17614(Part-	C): 28.0		Sample quantity ¹ 1 Litres		
S.No.	Text Pa	rameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)	
14	pH at 25°C		8	7.66	IS 3025 Part 11: 2022 (Electrometric Method)	8.5	
15	Total dissolved solid	da	mg/l	424.0	IS 3025 Part 16: 1984	.500	
16	Anionic Surface Ac	tive agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	0.2	
17	Carbonate		rug/l	BLQ(LOQ:1.0)	15 3025 Part 51: 2001	NA	
18	Cyanide as CN		ung/1	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.65	
19	Magnesium as Mg		mg/t	26.73	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	24.28	
20	Percent Sodium		%	31.90	HECSG /WT/SOP/002 Issue No:01,Jssue date 18.12: 2021	NA	
21	Phenolic compound	s as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	0.002	
22	Phosphate as PO4		mg/l	0.041	APHA 23rd edition Method 4500-P B,D: 2017	NA	
23	Potassium as K		mg/l	4.0	IS 3025 Part 45: 1993	NA	
24	Residual Sodium C	arbonate	mg/l	BLQ(LOQ:1.0)	48 11624: 2019	NA	
25	Sodium Adsorption	Ratio(SAR)	Square root of (millimole/lit	1.46	1S 11624; 2019	NA	



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 Unless specifically use or misuse of test more than 15 days from the date only to the test items.
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回答读许问

39

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Manganese

Mercury



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			T	TEST REPORT ULR Report No.		Page : 3 of 4 : TC1231024000046010F : HECSL/WT/042/210924	
Name	of the Client	# M/s. SIPCOT			Sample ID No	: 2109241	66
Addre	ess of the Client	: Tindivanam			Sampling Date	: 21/09/20	24
Group		1 Water			Received Date	: 21/09/20	24
Sample Name Surface Water (All)		(All)		Commenced Da	te = 21/09/20	24	
Sample Mark : Lake Near Bother		neri	Campleted On			24	
Sample Reference INA				Report Date	: 30/09/20	24	
Sample Drawn By FM/s. Hubert En		viro care Sy	stems (P) Ltd.	ty [±] 1 Litres			
Enviro	e Location nmental Condition ng Method & Plan	* NA * Temperature (* * IS 17614(Part-		Humidity (%) : 50	1.0		
S.No.	Test Pa	raineters	Units	Results	Test Method		Surface water Standards (IS 2296 Class-A
26	Sodium as Na		mg/4	51.0	15 3025 Part 4	5; 1983	NA
27	Sulphate as SO4		mg/l	22.81	15 3025 Part 24 S	oc 1: 2022	400
28	Total alkalinity as C	5CO3	mg/l	220,0	1S 3025 Part 2	3: 1986	NA
29	Total Hardness as C	wCO3	mg/l	230.0	1S 3025 Part 2	1: 2009	300
30	Total Phosphorous	as P	mg/l	BLQ(LOQ:0.02)	1S 3025 Part 31 S	ec 1: 2022	NA
34	Total Suspended So	lids	mg/l	BLQ(LOQ:2.0)	1S 3025 Part 1	7: 1984	NA
32	Turbidity		NTU	BLQ(LOQ:0.1)	15 3025 Part 1	0: 1984	1
33	Amenic		Ragen	BLQ (LOQ. 0.005)	USEPA 200.8	1 1994	0.05
34	Barium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8	±1994	1
35	Cadmium		Ngm	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994		0.001
36	Chronsium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8	: 1994	0.05
37	Copper		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8	: 1994	1.5
38	Leisd		mgA	BLQ (LOQ: 0.005)	USEPA 200.8	: 1994	0.1



mg/l

mg/l

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USEPA 200.8: 1994

USEPA 200.8: 1994

0.5

0.001

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hability or loss? damage caused by use or misuse of test report after invoicing or issue of test report.
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BLQ (LOQ: 0.01)

BLQ (LOQ:

0.0005)

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.

Sample Mark : Lake Near Botheri Sample Reference : NA Sample Drawn By : M/s.Hubert Enviro care Syste Sample Location : NA		tems (P) Ltd. Humidity (%) : 50.0	Completed On Report Date Sample quanti	1 30/09/202		
Sample Name	ample Name * Surface Water (All)			Commenced Date # 21/09/2024 Commenced On # 30/09/2024		
Address of the Client : Tindivanam		Received Date	: 21/09/2024	r.		
Name of the Client	1 M/s. SIPCOT			Sample ID No Sampling Dute	: 210924166	
		TE	ST REPORT	ULR Report No.	: TC123102	ge : 4 of 4 4000046010F /T/042/210924

					110 6679 1.1000-711
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	NA
42	Selenium	mgA	BLQ (LOQ: 0.005)	USEPA 200.8 1994	0.01
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	15

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

End of Report



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TEST REPORT

Page: 1 of 1

S.No.	Test Pa	rameters	Units	Perults	1000	Trees & Lather d
	ital Condition lethod & Plan	* Temperature (°C * IS 17614(Part-1):		y(%):50.0		
Sample Lo		* NA				
Sample Dra	Sample Drawn By #M/s.Hub		ro care Systems (P) I		quanti	ty 1 Litres
Sample Ref	erence	= NA		Report		\$ 30/09/2024
Sample Mar		r Lake Near Bothe	ri	Complet	ed On	\$ 30/09/2024
Sample Nan	ne	Surface Water (A	11)	Commet	iced Da	ne‡21/09/2024
Group		* Water	Received	d Date	1 21/09/2024	
Address o	f the Client	: Tindivanam				
				Samplin		121/09/2024
Name of t	he Client	# M/s. SIPCOT		Report N Sample 1		* HECSL/WT/042/210924/N * 210924166

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

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mgA - Milligrams per liter.

End of Report



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			TEST RI	EPORT ULR Repor		Page : 1 of 2 : TC1231024000045740F : HECS/PE/031/210924	
Nan	ne of the Client	3 M/s. SIPCOT			e ID No	: 210924167	
Add	ress of the Client	t Tindivanam		Samp	ing Date	: 21/09/2024	
Group	p	I Pollution & Envir	ronment		ved Date	+ 21/09/2024	
Samp	de Name	* Soil(All)		Come	aenced Da	te1 21/09/2024	
Sample Mark : Project Area		: Project Area	Completed On		leted On	\$ 28/09/2024	
Sample Reference # NA				Repo	1 Date	+ 28/09/2024	
Sanış Envir	de Drawa By ple Location onmental Condition fing Method & Plan	: M/s.Hubert Envir NA : Temperature ("C) : ICARDA:2013	2 2		de quanti	y 1 Kg	
S.N	The second	arameters	Units	Results		Test Method	
Disc	ipline : Chemical						
1	Cadmium		mg/Kg	BLQ (LOQ: 0.1)	HE	S-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021	
2	Chromium		mg/Kg	23.51	HD	CS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021	
4	Copper		mg/Kg	6.51	HE	HECS-G/INS/SOP/ 042 Issue No.: Issue Date:01.03.2021	
	1.2.4.2.2					Issue Date:01.03.2021	
0	Zinc		mg/kg	23.61	HE		
6 7	Zinc Soil Texture		mg/kg	23.61 Latam		S-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021	
-			mgikg %		FAO	CS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021 of United Nations, Rome Chapte III 2008	
7	Soil Texture			Leam	FAO	CS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021 of United Nations, Rome Chapte III 2008 of United Nations, Rome Chapte III 2008	
7	Soil Texture Soil Texture i)Sand		%	Leam 46.2	FAO FAO FAO	CS-GANS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter	
7 8 9	Soil Texture Soil Texture i)Sand Soil Texture ii)Silt	y	%	Leam 46.2 27.4	FAO FAO FAO	CS-GANS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter	



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		INC. OROME	TEST RE	ULR Repo		
Name	of the Client	4 M/s. SIPCOT			ding Date : 21/09/2024	
Addro	ess of the Client	: Tindivanam				
Troup		* Pollution & Env	ironment	Recei	ived Date # 21/09/2024	
Sample	Name	* Soil(All)		0.010	enmenced Date # 21/09/2024	
	Mark	: Project Area		CHO Y	pleted On # 28/09/2024	
Sample Reference : NA Sample Drawn By : M/s.Hubert En		: NA			et Date \$ 28/09/2024 ple quantity \$ 1 Kg	
Enviro	e Location nmental Condition ng Method & Plan	¹ NA ² Temperature ("0 ³ ICARDA:2013	C): 22.0 1 Humid	ity (%) : 45.0		
S.No.	Test P	arameters	Units	Results	Test Method	
13	Bull: Density		gm/cm3	1.18	FAO of United Nations Rome 2007	
12	Organic Carbon		%	0.37	15 2720 (Part 22) Section 1 1972	
13	Organic Matter		%	0.64	IS 2720 (Part 22) Section 1 1972	
14	Available Potassion	m	mEq/100g	8.44	FAO of United Nations, Rome Chapter 111 2008	
15	Boroa as B		mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020	
16	Total Nirogen av N	4	56	0.0085	IS 14684 Clause 4 1999	
17	Exchangable Calci	um as Ca	mEq/L	6.34	FAO of United Nations, Rome Chapter III 2008	
18	Exchangable Mage	ucsium as Mg	mEq/L	3.74	FAO of United Nations, Rome Chapter III 2008	
19	Cation Exchange C	apacity	mEq/100g	1.6	IS 2720 (Part 24) Clause 5 1976	
20	Water Holding cap	acity	%	31.2	IS 14765: 2000	
21	Colour		8	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020	
			a second s		FAO of United Nations, Rome Chapter	

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

End of Report



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TEST REPORT

Page 1 of 1

				Report N	o. ¹ HECS/PE/031/210924/N		
Name of the Client		: M/s. SIPCOT			D No : 210924167		
				Sampling	Date : 21/09/2024		
Addre	ess of the Client	: Tindivanam					
Group		2 Pollution & Environment			Date \$ 21/09/2024		
Sample Name		* Soil(All)			Commenced Date: 21/09/2024		
Sample Mark Sample Reference		: Project Area		Complete	Completed On \$28/09/2024		
		* NA		Report D	ate # 28/09/2024		
Sample Drawn By		: M/s.Hubert Enviro care Systems (P) Ltd.			Sample quantity *1 Kg		
Sampl	e Location	* NA					
	nmental Condition ng Method & Plan	* Temperature ("C * ICARDA:2013	C): 22.0 Humidit	y (%) : 45.0			
S.No.	Test P	arameters	Units	Results	Test Method		
Discip	dine : Chemical				W		
1	Manganese		mg/kg	157.32	HECS-G/INS/SOP/ 042		
	Iron Infiltration Rate		աց/եր	3.42	Inhouse method		
			cna/far	6.4	Inhouse method		
	Moisture		*6	7.12	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020		

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



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			TEST RE	U	LR eport No.	Page: 1 of 2 : TC1231024000045741F : HECS/PE/032/210924	
Name	of the Client	I M/s, SIPCOT			imple ID No	: 210924168	
Address of the Client : Tindiv		: Tindivanam		S	umpling Date	t 21/09/2024	
Group		² Pollution & Environment			eccived Date	* 21/09/2024	
Sample Name		‡ Soil(All)			ommenced Dat	c: 21/09/2024	
Sample Mark		: Near Botheri			ompleted On	: 28/09/2024	
sample	Reference	1 NA	I NA		eport Date ample quantit	\$ 28/09/2024	
Sample Raviros	Drawn By e Location mental Condition ng Method & Plan	: M/s.Hubert Envi NA : Temperature (*C : ICARDA:2013	- 12 - 22				
S.No.	Test Pa	arameters	Units	Results		Test Method	
Discip	line : Chemical					model designed also had a state strate of the second	
Ú	Cadmium		mg/Kg	BLQ (LOQ: 0	(1) HEC	S-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021	
2	Chromium		mg/Kg	27.61	HE	CS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021	
3	Copper		mg/Kg	9.21	HEA	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021	
4	Zinc		mg/kg	26.41	HE	S-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021	
5	Soil Texture			Clay Loam	FAO	of United Nations, Rome Chapter III 2008	
б	Soil Texture i)Sand		*	38.9	FAO	of United Nations, Rome Chapter III 2008	
7	Soil Texture ii)Silt		*4	24.4	FAO	of United Nations, Rome Chapter III 2008	
8	Soil Texture iii)Clay		%	36.7	FAO	of United Nations, Rome Chapter III 2008	
	pH Value @ 25 ° C (1 : 2.5)			7.32		IS 2720 (Part 26) 1987	
9	pri vande up 23 e	C. F. L. Briefly		E safer		the second se	

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 Unless specifically requested by customer the tast items will not be retained more than 15 days from the date of issue of test report.
 Unless the date of issue of test report.
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 Itability or how / damage caused by use or misuse of test report.
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			TEST RE	ULB Repo	rt Nu. FHECS/PE/032/210924	
Name	of the Client	3 M/s. SIPCOT		0.010	le ID No ± 210924168 ling Dire ± 21/09/2024	
Address of the Client		: Tindivanam		and	inff.com 121/0/2024	
Group		3 Pollution & Environment			ved Date # 21/09/2024	
Sample Name		: Soil(All)			Commenced Date 21/09/2024	
Sample Mark		: Near Botheri	a strange and a strange of the		aleted On \$ 28/09/2024	
Sample Reference		* NA * M/s.Hubert Env			et Date = 28/09/2024 ple quantity ² 1 Kg	
Enviror	e Location unental Condition ng Method & Plan	* NA * Temperature (") * ICARDA:2013	C): 22.0 Humid	ity (%) 145.0		
S.No.	Test Pa	arameters	Units	Results	Test Method	
11	Bulk Density		gns/em3	1.12	FAO of United Nations Rome 3007	
12	Organic Carbon		%	0.27	IS 2720 (Part 22) Section I 1972	
13	Organic Matter		%	0.48	15 2720 (Part 22) Section 1 1972	
14	Available Potassium		mEq/100g	3.92	FAO of United Nations, Rome Chapter III 2008	
15	Boron as B		mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020	
16	Total Nitrogen as N		**	0.0084	15 14684 Clause 4 1999	
17	Exchangable Calcium as Ca		mEq/L	6.54	FAO of United Nations, Rome Chapter 111 2008	
18	Exchangable Magnesium as Mg		mEq/L	8.12	FAO of United Nations, Rome Chapter III 2008	
19	Cation Exchange Capacity		mEq/100g	3.3	IS 2720 (Part 24) Clause 5 1976	
20	Water Holding capacity		%	18.8	18 14765: 2000	
21	Calour		i¥.	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020	
22	Phosphorous		μg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter	

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

% - Percentage.



""End of Report""

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TEST REPORT

Page: 1 of 1

No.:01 Issue Date:02:07: 2020

				Repor	1 No.	[‡] HECS/PE/032/210924/N	
Name	of the Client	: M/s. SIPCOT		Sampl	Sample ID No	: 210924168	
				Sampl	ing Date	: 21/09/2024	
Address of the Client		: Tindivanam					
Group		· Pollution & Envi	ironment	Recei	ved Date	: 21/09/2024	
Sample	Name	* Soil(All)			Commenced Date 21/09/2024		
Sample Mark : Near Botheri Sample Reference : NA		Cn		leted On	128/09/2024		
		= NA		Repo	Report Date	* 28/09/2024	
Sample	Drawn By	I M/s.Hubert Envi	iro care Systems (P)	Ltd. Samp	Sample quantity 1 K	ty 1 Kg	
Sampl	e Location	I NA					
	muental Condition	: Temperature (°C) : 22.0 Humidity (%) : 45.0					
	ng Method & Plan	: ICARDA:2013			-		
S.No.	Test P.	arameters	Units	Results		Test Method	
Discip	line : Chemical						
1	Manganese		mg/kg	160.21		HECS-G/INS/SOP/ 042	
2	Iron		mg/kg	0.58		Inhouse method	
3	Infiltration Rate		cut/hr	5.8		Inhouse method	
4	Moisture		%	2.48	HE	CS-G/ENV/SSW/SOP/003 Issue	

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



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			TEST RI	ULR	rt No.	Page : 1 of 2 : TC1231024000045742F ¹ HECS/PE/033/210924
Nam	e of the Client	[‡] M/s. SIPCOT			le ID No	: 210924169
Add	reas of the Client	: Tindivanam		Samp	ling Date	1 21/09/2024
Group	,	2 Pollution & Envir	ronment	Rece	ved Date	+ 21/09/2024
Sample Name * Soil(All)			Com	menced Da	ic # 21/09/2024	
		: Near Agoor	Cor		pieted On	128/09/2024
Sample Reference RA		* NA			n Date ple quanti	: 28/09/2024
Samp Envir	le Draws By ole Location onmental Condition ling Method & Plan	: M/s.Hubert Envir : NA : Temperature ("C : ICARDA:2013	1979 (1979) (1019) 1979 (1979)			
S.Ne). Test Pa	arameters	Units	Results		Test Method
Disc	ipline 1 Chemical					
1	Cadmium		mg/Kg	BLQ (LOQ: 0.1)	HE	CS-G/INS/SOP/ 042 [saar No.:0] Issue Date:01.03.2021
2	Chromium		mg/Kg	34.62	HĐ	CS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper		mg/Kg	6.14	HE	CS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc		mg/kg	28.12	HB	CS-G/INS/SOP/043 Issue No.:01 Issue Date:01.03.2021
						second and the second sec
5	Soil Texture			Loam	FAO	of United Nations, Rome Chapter III 2008
5	Soil Texture Soil Texture i)Sund		%	1,0am 41,2		III 2008
n: 			%	1	FAO	III 2008 of United Nations, Rome Chapter III 2008
6	Soil Texture i)Sund			41.2	FAO	of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter
6	Soil Texture ()Sand	y	%	41.2	FAO	111 2008 of United Nations, Rome Chapter 111 2008 of United Nations, Rome Chapter 111 2008 of United Nations, Rome Chapter



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			TEST RE	PORT	Page: 2 of 2
13	A02+12			ULR	: TC1231024000045742F
	法职业			Repor	a No. # HECS/PE/033/210924
Name	of the Client	1 M/s. SIPCOT		Samp	de ID No : 210924169
	STATE STATE	5.00000 Schel With B.		Samp	ling Date : 21/09/2024
Addre	ss of the Client	: Tindiyanam			2.2
iroup		· Pollution & Envir	ronment	Recei	ived Date # 21/09/2024
Sample	Name	[‡] Soil(All)	Comment		menced Date # 21/09/2024
Sample Mark : Near Agoor		: Near Agoor	Completed O		
Sample Reference INA			20.011	nt Duite # 28/09/2024	
	Drawn By		ro care Systems (P)	Ltd. Sam	ple quantity : 1 Kg
	e Location	⇒ NA			
	amental Condition): 22,0 1 Humid	ity (%) : 45.0	
	ng Method & Plan	: ICARDA:2013	2010		
S.No.	The Average of Children and Chi	arameters	Units	Results	Test Method
11	Bulk Density		gm/cm3	1.08	FAO of United Nations Rome 20
12	Organic Carbon		56	0.49	4S-2720 (Part 22) Section 1 1972
13	Organic Matter		%	0.86	1S 2720 (Part 22) Section 1 1972
14	Available Potassiu	00	mEq/100g	9.43	FAO of United Nations, Rome Chap 111 2008
15	Boron as B		mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Iss No.301 Issue Date:02:07 2020
10	Total Nitrogen as N	l.	%	0.0078	1S 14684 Clause 4 1999
17	Exchangable Calci		mEq/L	7.12	FAO of United Nations, Rome Chap III-2008
18	Exchangable Magn	iesium as Mg	mEq/L	8.04	FAO of United Nations, Rome Cha III 2008
			CONTRACTOR AND C	4.5	IS 2720 (Past 24) Clause 5 1976
19	Cation Exchange C	lapacity	mEq/100g	Contraction of the second s	
19 20	Cation Exchange C Water Holding cap		mEq/100g %	31.8	15 14765: 2000
	and the second se				

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

End of Report



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TEST REPORT

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Page | 1 of 1

2 TEE/CE/DE2/032/51/0023/61

				Report for	* HECS/PE/033/210924/N		
Name	of the Client	+ M/s. SIPCOT		Sample II	No : 210924169		
				Sampling	Date ; 21/09/2024		
Addr	ess of the Client	: Tindivanam					
Group		* Pollution & Enviro	onment	Received	Date = 21/09/2024		
Sample	Name	* Soil(All)		Comment	Commenced Date # 21/09/2024		
Sample Mark Sample Reference		: Near Agoor		Complete	d On = 28/09/2024		
		:NA		Report D	ne ± 28/09/2024		
Sample	Drawn By	: M/s.Hubert Enviro	care Systems (P)	Ltd. Sample o	mantity 1 Kg		
Sampl	e Location	INA					
Enviro	unental Condition	* Temperature (°C)	: 22.0 Humidi				
Sampli	ng Method & Plan	: ICARDA:2013					
S.No.	Test P	arameters	Units	Results	Test Method		
Discip	dine : Chemical						
1							
1	Manganese		mg/kg	124.21	HECS-G4NS/SOP/ 042	Ī	
2	Manganese		mg/kg mg/kg	3,4	HECS-G/INS/SOP/ 042 Inbouse nuthod		
2							

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

"End of Report"



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- 619f2			TEST RI	EPORT ULR Repo		Page : 1 of 2 = TC1231024000045743F = HECS/PE/034/210924
Nan	se of the Client	: M/s. SIPCOT			le ID No	: 210924170
Add	ress of the Client	: Tindivanam		Samp	ting Date	21/09/2024
Giving	p	+ Pollution & Envi	ronment	Recei	ved Date	1 21/09/2024
Sample Name ² Soil(All) Sample Mark ² Near Pelakuppa				nenced Da	ne‡21/09/2024	
				leted On	1 28/09/2024	
Sample Reference INA		: NA			n Date	+ 28/09/2024
	de Druwn By	[‡] M/s.Hubert Envi [‡] NA	ro care Systems (P) Ltd. Sam	ole quanti	iy‡1 Kg
	ple Location commutal Condition	 NA Temperature (°C 	3	din / 10. 1 - 45 0		
	ling Method & Plan	: ICARDA:2013	7. 22.0 1 114100	uniy (567 1 9550		
S.Ne	o. Test P	arameters	Units	Results		Test Method
Disc	ipline : Chemical					
1	Cadmium		mg/Kg	BLQ (LOQ: 0.1)	HEO	CS-G/INS/SOP/ 042 Issue No:01 Issue Date:01.03.2021
2	Chronium		mg/Kg	35.32	HĐ	CS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper		mg/Kg	8.12	HE	CS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc		mg/kg	24.62	HE	CS-G/INS/SOP/ 042 Issue No.:01
				_		Issue Date:01.03.2021
5	Soil Texture		2 F	Clay loam	FAO	
5	Soil Texture Soil Texture ilSand	1	%	Clay loans 40.2	1	of United Nations, Rome Chapter III 2008
-		1		10 CONTRACT	FAO	of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter III 2008
6	Soil Texture i)Sand		%	40.2	FAO	of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter
6	Soil Texture i)Sant	ıy	% %	40.2	FAO	of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter III 2008 of United Nations, Rome Chapter



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Name Name	of the Chent	¹ M/s. SIPCOT	TEST RE	ULR Repo	Page : 2 of 2 : TC1231024000045743F i No. : HECS/PE/034/210924 ie ID No : 210924170
20000	rss of the Client	: Tindiyanam		2010	ding Date + 21/09/2024
Addre	ss or the Chem	: i indivanam			
The second se		3 Pollution & Env	ironment	Rece	ved Date # 21/09/2024
Sample Name Foil(All)				menced Date# 21/09/2024	
Sample Mark : Near Pelakuppa		m	2000 C	oleted On #28/09/2024	
Sample Reference INA				n Date \$28/09/2024	
	Drawo By	* M/s.Hubert Env * NA	iro care Systems (P)	Ltd. Sam	nle quantity * 1 Kg
22.0150	e Location smental Condition		3. 33.0 L H	14 × 11 × 15 0	
	ng Method & Plan	: ICARDA:2013	C): 22.0 1 Humid	ny (56) 145.0	
S.No.	Test P	arameters	Units	Results	Test Method
11	Bulk Density		gm/cm3	1.02	FAO of United Nations Rome 2007
12	Organic Carbon		*6	0.62	1S 2720 (Part 22) Section 1 1972
13	Organic Matter		%	1.08	IS 2720 (Part 22) Section 1 1972
14	Available Potassiur	0	mEq/100g	6.02	FAO of United Nations, Rome Chapter III 2008
15	Boron as B		mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020
16	Total Nitrogen as N	1	%	0.0155	15 14684 Clause 4 1999
17	Exchangable Calcin	im as Ca	mEq/L.	8.64	FAO of United Nations, Rome Chapter III 2008
18	Exchangable Magn	esium as Mg	mEq/L	10.84	FAO of United Nations, Rome Chapter III 2008
19	Cation Exchange C	apacity	mEq/100g	3.6	IS 2720 (Part 24) Clause 5 1976
20	Water Holding cap	acity	%	18.4	IS 14765: 2000
21	Colour		6	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
22	Phosphorous		4z/z	7.20	FAO of United Nations, Rome Chapter

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

% - Percentage.

End of Report



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TEST REPORT

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Page: 1 of 1

2 TECCODE INTACTORIAN

			Report	NO:	* HECS/PE/034/210924/N	
Name	of the Client	: M/s. SIPCOT	Sample	ID No	: 210924170	
	bress of the Client : Tindivanam p : Pollution & ole Name : Soil(All) ole Mark : Near Pelaku		Samplin	ig Date	: 21/09/2024	
Addre	ess of the Client	: Tindivanam				
Group		· Pollution & Environment	Receive	Received Date : 21/09/2024		
Sample	Name	: Soil(All)	Comme	nced Date	:= 21/09/2024	
Sample	Mark	: Near Pelakuppam	Comple	ted On	# 28/09/2024 # 28/09/2024	
·	Reference	: NA	Report	Date		
Sample	Drawn Hy	: M/s.Hubert Enviro care System	ms (P) Ltd. Sample	le quantity ‡1 Kg	/ [‡] 1 Kg	
Sampl	e Location	* NA				
Enviro	mmental Condition	* Temperature (°C) : 22.0 1	lumidity (%) : 45.0			
Sampli	ng Method & Plan	: ICARDA:2013	2011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
S.No.	Test P	arameters Units	Results		Test Method	
Discip	dine : Chemical					
				221		
1	Manganese	mg/kg	132.51	1	HECS-G/INS/SOP/ 042	
2	Manganese Iron	mg/kg mg/kg	4.68		HECS-G/INS/SOP/ 042 Inbouse method	

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

"End of Report"



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 Unless specifically requested by use or misuse of test report after invoicing or issue of test report.
 The test results relate only to the test items.
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			TEST RI	ULR Repo	n No. + HECS/PE/035/210924
Name	of the Client	1 M/s. SIPCOT		120.00	le ID No 2210924171 ling Date 221/09/2024
Addre	ess of the Client	: Tindivanam		.surf	and there is a subscript of
Group		Pollution & Envir	onment	Recei	ved Dute # 21/09/2024
Sample Name [‡] Soil(All) Sample Mark : Near Ural				menced Date = 21/09/2024	
			Com	stered On \$ 28/09/2024	
Sample Reference RA		3 NA			n Date \$28/09/2024 ele quantity \$1 Kg
Sampl Enviro	e Drawn By e Location nmental Condition ng Method & Plan	* M/s.Hubert Envir * NA * Temperature (*C * ICARDA:2013			
S.No.	Test Pa	arameters	Units	Results	Test Method
Discip	line : Chemical				
1	Cadmium		mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/.042 Issue No.:01 Issue Date:01.03.2021
2	Chronäum		mg/Kg	30.81	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper		mg/Kg	8.10	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03 2021
4	Zinc		mg/kg	25.08	HECS-G/INS/SOP/ 042 Issue No. 01 Issue Date:01.03.2021
5	Soil Texture			Silt loans	FAO of United Nations, Rome Chapter 111 2008
6	Soil Texture i)Sand		%	21.2	FAO of United Nations, Rome Chapter III 2008
7	Soil Texture ii)Sili		36	52.4	FAO of United Nations, Rome Chapter III 2008
8	Soil Texture iii)Cla	y .	%	26.4	FAO of United Nations, Rome Chapter III 2008
	CONTRACTOR OF ANY ANY ANY	11111111		7.28	15 2720 (Part 26) 1987
9	pH Value @ 25 * C	$(1 + \pi)M$			the part and the same many a second



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6			TEST RE			Page : 2 of 2	
139	C			115	JLR.	: TC1231024000045744F	
	C02-1225-				cport No.	¹ HECS/PE/035/210924	
Name	of the Client	1 M/s. SIPCOT			ample ID No	; 210924171	
				5	ampling Date	± 21/09/2024	
Addre	ss of the Client	: Tindiyanam					
žroup		: Pollution & Envir	ronment)	leceived Date	* 21/09/2024	
Sample	Name	* Soil(All)		(Commenced Dat	te‡ 21/09/2024	
Sample Mark : Near Ural				Completed On	+ 28/09/2024		
Sample Reference 3 NA				leport Date	1 28/09/2024		
	Drawn By		ro care Systems (P)	Ltd. S	lample quantit	y [±] 1 Kg	
- Contra - C	e Location	1 NA					
	nmental Condition ng Method & Plan	* Temperature ("C ‡ ICARDA:2013	1: 22.0 Humid	ity (%) : 45.0			
S.No.	-	arameters	Units	Results		Test Method	
11	Bulk Density		gas/cm3	1.09	FA) of United Nations Rome 2007	
12	Organic Carbon		96	0.48	ES	2720 (Part 22) Section 1 1972	
13	Organic Matter		%	0.72	B	7720 (Part 22) Section 1 1972	
14	Available Potassian	n	mEq/100g	10.38	FAO	of United Nations, Rome Chapter III 2008	
15	Boron as B		mg/kg	BLQ(LOQ 0	0.00	HECS-G/ENV/SSW/SOP/018 Issue No.:01 Issue Date:02:07 2020	
		1	55	0.0079		IS 14684 Clause 4 1999	
16	Total Nitrogen as N	Exchangable Calcium as Ca		60,000 F.P.			
16 17			mEq/L_	6.04	FAO	of United Nations, Rome Chapte 111 2008	
		am as Ca	and have n			of United Nations, Rome Chapte 111 2008 of United Nations, Rome Chapte III 2008	
17	Exchangable Calci	am as Ca esium as Mg	mEq/L_	6.04	FAO	111 2008 of United Nations, Rome Chapte	
17 18	Exchangable Calcin	am as Ca esium as Mg apacity	mEq/L mEq/L	6.04 7.24	FAO	111 2008 of United Nations, Rome Chapte III 2008	
17 18 19	Exchangable Calcin Exchangable Magn Cation Exchange C	am as Ca esium as Mg apacity	mEq/L mEq/L mEq/100g	6.04 7.24 1.9	FAO	111 2008 of United Nations, Rome Chapte III 2008 S 2720 (Part 24) Clause 5 1976	

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

End of Report



D.Anusuya Lab Manager Authorized Signatory

The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization.
 Samples are not drawn by HECS unless or otherwise mentioned.
 Onless specifically requested by customer the test items will not be retained roore than 15 days from the date of lasus of test report.
 Under no circumstances tab accepts any fability or less / damage caused by use or misuse of test report after invoicing or issue of test report.
 HECS-G/Q/FMT/49

Hubert Enviro Care Systems (P) Ltd. A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032. Ph: 42985555 / 43635555 Fax : 42985500 E-mail : labsales@hecs.in

Laboratory Services Division

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

TEST REPORT

Page 1 of 1

S.No.	Test Pa	arameters	Units	Result	ls	Test Method
Environmenta Sampling Met	and the state of the	¹ Temperature (: ICARDA:2013	°C) : 22.0 Humidi 3	ty (%) : 45.0		
Sample Draw Sample Loca	Sec. 20	[‡] M/s.Hubert Ei [‡] NA	aviro care Systems (P)	Ltd.	Sample quantit	y • 1 Kg
Sample Refer		± NA		20221	Report Date	28/09/2024
Sample Mark		: Near Ural			Completed On	: 28/09/2024
Sample Name	8	[‡] Soil(All)			Commenced Dat	c \$ 21/09/2024
Group		: Pollution & Er	ivironment		Received Date	: 21/09/2024
Address of (the Client	: Tindivanam				
					Sampling Date	; 21/09/2024
Name of the	e Client	: M/s. SIPCOT			Sample ID No	: 210924171
					Report No.	* HECS/PE/035/210924/

9.10	0. rest Parameters	Units	Results	Test Micthod
Disc	ipline : Chemical			
1	Manganese	mgikg	135.26	HECS-G/INS/SOP/ 042
1	Iron	mg/kg	2.02	Inhouse method
k:	Infiltration Rate	cunfta	6.8	Inhouse method
ŧ	Moisture	%	7.94	HECS-G/ENV/SSW/SOP/003 Issue No. 01 Issue Date:02:07: 2020

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

End of Report



D.Anusuya Lab Manager Authorized Signatory

1. The report is 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 membered 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 discumstances tab accepts may liability or loss / damage caused by use or misure of test report. 5. The test results relate only to the test items.

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

1244761



Laboratory Services Division

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

E 244 P					
			TEST REPORT	ULR	Page : 1 of 1 : TC1231024000045599F
回诊理论	2			Report No.	HECS/AP/083/210924
Name of the	Client	: M/s. SIPCOT		Sample ID No	: 210924161
				Sampling Date	: 21/09/2024
Address of i	he Client	: Tindivanam			
iroup		² Atmospheric Pollution		Received Date	: 21/09/2024
ample Name : Ambient Noise Levels (Es		xcluding vibration) Commenced Dat		ne121/09/2024	
ample Mark : Noise			Completed On	127/09/2024	
ample Refere	nce	: NA		Report Date	27/09/2024
A COMPANY AND COMPANY	mple Drawn By : M/s.Hubert Enviro care : imple Location : NA		Systems (P) Ltd.	Sample quanti	IY TNA
invironmental ampling Mei	Condition	: Temperature (°C) : 32.0 : 1S 9989:1981	Humidity (%) : 56.0	8	
S.No	Samp	ling Location	Day Noise level in dB (A)	Night?	Noise level in dB (A)
1	Project Site	ŧ.	52.8		43.6
2	Botheri		54.3		42.8
3	Agoor		53.9		43.9
4	Pelakupr	am	52.9		42.4
5	Ural		47,4		39.6

Noise Standards - CPCB:

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

Note:

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

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

Remarks:- The noise level meets the requirement of CPCB Limit

End of Report

D.Anusuya Lab Manager Authorized Signatory

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 itoms will not be retained more than 15 days from the date of issue of best report. 4. Under so circumstances lab accepts any tability or loss / damage caused by use or misuse after invoicing or issue of test report. 5. The test results relate only to the test items.
 HECS-G/Q/FMT/49

TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD

31, Kamarajar Salai, Chepauk, Chennai-600 005.

Dr.C.N.Mahesvaran, I.A.S., Managing Director,

Lt.No.F. 280518/ AE1/PDC/2018-2/Dt.02.09.2020

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JTR Managing Director, SIPCOT Ltd, 19-A, Rukmani Lakshmipatty Road, Egmore, Chennai-8.

Sar,

Sub: Setting up OF 60 Mid Capacity Desalination Plant at Koonimedu near Marakanam in Villupuram District and Conveyance of Product Water to Villupuram and Tindivanam Municipalities, Vicravandi, Marakanam Town panchayats and 692 rural habitations in Marakanam, Kanai, Mailam, Vicravandi and Vanur unions in Villupuram Dt – 3 Mid water supply requested to SIPCOT, Tindivunam – Proportionate cost to be borne by SIPCOT – remittance of proportionate project cost - requested – reg.

Ref:

- Chief Engineer, SIPCOT, Chennal Lr.No. CW/TIP/External Water Supply/2018/Dt.03.01.2019 addressed to CE, TWAD, Vellore.
 - EE, TWAD, RWS, Kallakurichi Lr.No. F.DSP-CWSS-I/DO/RWS/KKI/2020/Dt.8.8.2020 addressed to Project officer, SIPCOT, Cuddalore

With reference to the letter 1" cited, it is pertinent to inform the following.

- V TWAD Board is proposed to install 60 mld capacity Desalination Plant at Koonimedu near Marakanam in Villupuram District for providing water supply to Villupuram and Tindivanam Municipalities, Vicravandi, Marakanam Town panchayats and 692 rural habitations in Marakanam, Kanai, Mailam, Vicravandi and Vanur unions in Villupuram Dt.
- Onginally, the Detailed project report was prepared with Schedule of rates for the year 2019-20 for Rs.1450 Crore (Plant cost - Rs.615 crore & Conveyance cost - Rs.835 Crore) to install and Rs.100.27 Crore to maintain Annually (Plant - Rs.80.81 Crore & Conveyance - Rs.19.46 Crore).
- V Now, the DPR has been revised with the provision for revision with Schedule of rates for the year 2020-21 for Rs.1556.00 Crore (Plant cost - Rs.665.00 crore & Conveyance cost - Rs.891.00 Crore).
- Administrative approval and fund tie up for this project is being processed by Govt intently.

- Under this Scheme, provision has been made to provide 3 MLD (30.00 LL) of water supply to SIPCOT, Tindivanam based on the request made vide reference 1st cited.
- V It is proposed to supply 3.00 MLD of water to SIPCOT, Tindivanam by pumping through 25.83 Km length of Pumping main (500 mm to 300 mm DI K7 pipe) from the proposed Endur booster station (Transmission Main 2) located at 30.19 Km from Desalination Plant location site. The Flow diagram of the project is appended herewith.
- The proportionate Project cost towards supply of 3 mld to SIPCOT, Tindivanam is Rs.65.18 Crore
- Fund tie up for the project is sought for from Govt excluding the proportionate cost of Rs.65.18 Crore towards supply of 3 mld to SIPCOT, Tindivanam.

In this regard, I request you to

- Remit the proportionate Project Cost of Rs. 65.18 Crore to TWAD on receipt of Administrative sanction for the project from the Govt and enter upon MoU with TWAD.
- Give consent to bear excess project cost if any arises during implementation of the Scheme, on receipt of intimation from TWAD Board.

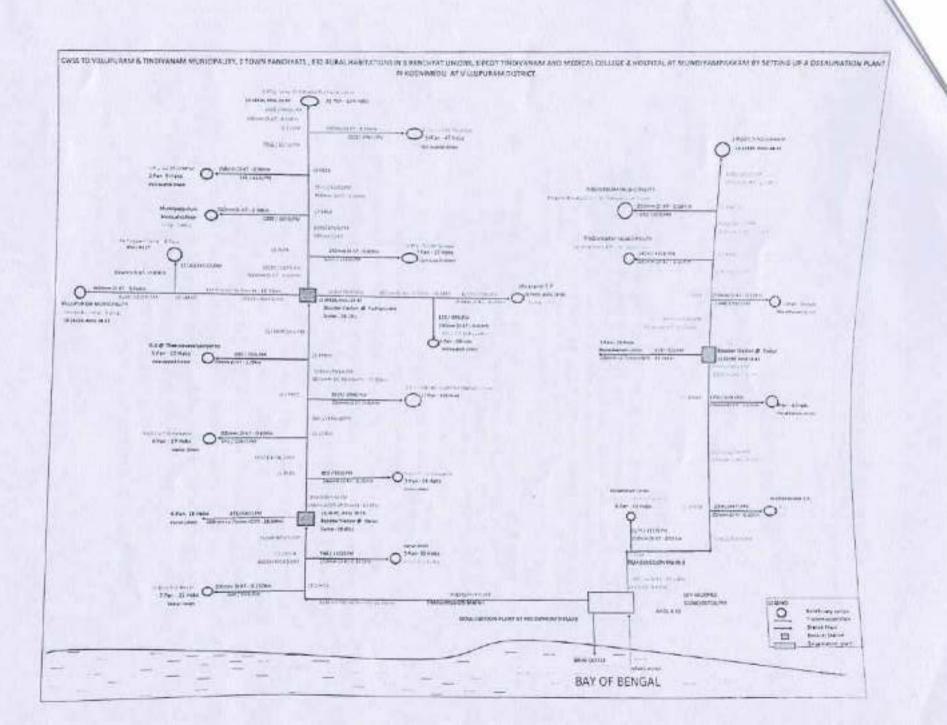
Enci: Flow Diagram of the Project.

Sd/-02.09.2020 Managing Director, TWAD Board, Chennai-5.

9/2020 Managing Director,

TWAD Board, Chennai-05.

10.



(r, 4) TAMILNADU WATER SUPPLY AND DRAINAGE BOARD anaging D 31, Kamarajar Salai, Chepauk, Chennai.5 Dr.C.N.Mahesvaran., I.A.S., 1371 Managing Director 019 cr LUZO Lr No F.280518/ AE1/ PDC/ 2018/ dt. 05.09.2020 То Chennai-500 The Managing Director SIPCOT Ltd, 19-A, Rukmani Lakshimapathy road, Egmore, Chennai. Sir, Sub: TWAD Board - SIPCOT Industrial park, Tindivanam - 3.00 mld subsurface

- water supply near SIPCOT Park finalization of immediate requirement -Online registration and consent requested - reg Ref:
 - 1. MD, SIPCOT Lr No CW/ TIP/ W.S/2018/ dt14.07.2020.

2. This office Lr.No. No F.280518/ AE1/ PDC/ 2018/ dt.20.07.2020.

3. MD, SIPCOT Lr No CW/ IWC /TIP/WS/2020/ dt10.08.2020.

With reference to MD, SIPCOT's request vide reference 1st cited to expedite the investigation for supply of 3 mld by sparing from the existing water supply scheme of TWAD Board, MD, SIPCOT was addressed vide reference 2nd cited informing that

- $\sqrt{-}$ There are no existing WS schemes in Cuddalore and Villupuram Districts from which 3 MLD could be spared to SIPCOT, Tindivanam.
- $\sqrt{}$ Apart from the source identified for supply of 0.5 mld from the subsurface source nearby park by constructing 3 or 4 open wells, another 0.50 mld would be possible to tap from the palakuppam panchayat of Tindivanam taluk by construction of 3 to 4 open wells for which necessary permission from the Panchayat is to be obtained for industrial supply by SIPCOT.
- $\sqrt{-}$ Also, suggested around 30 nos, of open wells from Veedur dam assuming vield of 100-110LPM

Now, in the reference 3rd cited it has been requested to confirm the feasibility of drawal of 3 mld surface water from Veedur dam.

In this regard, HG, Chennai after carrying out thorough hydrogeological investigation of dam ruled out the Veedur Dam option citing that

- $\sqrt{}$ excavation of open wells outside the Veedur dam is not feasible since there are no spaces
- \checkmark it is not possible to excavate wells inside also since the parapet wall of wells to be raised to Dam height of 32 ft to prevent submergence when the reservoir is full.

Further the HG has suggested that an immediate requirement of around 1 MLD is possible for drawal from the existing (50 Nos) of open wells in SIPCOT premises by carrying out suitable rejuvenation works.

On finalization of immediate requirement by SIPCOT and on completion of online registration, remittance of upfront deposit and furnishing consent for 'ToR' of TWAD Board as already requested vide reference 2nd cited, investigation works will be taken up by TWAD.

braanton 5/9/2020 for Managing Director

CD

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for Managing Brides TWAD Board – Chennai-5

125)

Annexure 7 A

Environmental Clearance for SIPCOT Thindivanam Published in "Deccan Chronicle" Chennai Edition dated 05.01.2020 in English Language

Blogger Pradeep John, also called the 'Tamil Nadu weatherman', wrote on his Facebook post that the fog in the city was not due to pollution. "It's not like the smog that happened in November." He said the fog will continue for the next 2-3 days.

airport Chennai authorities pointed out on its Twitter handle that, "due to adverse weather conditions/poor visibility, diverted/ are flights delayed. The inconvenience caused to passengers is sincerely regretted. Passengers are requested check with the to concerned airline (s) for updates."The further updated airlines also passengers about the the flight delays and apologised to the passengers.

A blanket of fog covered most parts of the city till 8.30 am on Saturday disrupting vehicular movement. Ooty, Jan 4: The district court here on Saturday granted three-day 3 parole to Valayar Manoj, of the one accused the Kodanadu in estate, murder and heist cases, to perform the last rites of his father who expired two days ago in Kerala.

As the petition for parole came up for hearing, district judge P. Vadamalai gave the parole to Valayar Manoj and directed that be produced before court on January 7.

Manoj is one of the 10 accused in the murder of a security guard and heist in the bungalow in Kodanadu belonging to late Tamil Nadu chief minister Jayalalithaa and lodged in the Central jail here.

His counsel had filed a petition seeking parole to Manoj to perform the last rites of his father who died two days ago in Thrissur, Kerala. —PTI

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED SIPCOT INDUSTRIAL PARK, THINDIVANAM THINDIVANAM TALUK, VILLUPURAM DISTRICT

ENVIRONMENTAL CLEARANCE

Environmental Clearance has been obtained for the proposed SIPCOT Industrial Park at Thindivanam, Villupuram District from State Level Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide their Lr.No.SEIAA-TN/F.6497/EC/8(b)/681/2019 dt.27.11.2019.

The contents of the Environmental Clearance can be downloaded from SIPCOT website <u>www.sipcot.in</u> and also in the SEIAA website <u>www.seiaa.tn.gov.in</u>. Further the copies of the Environmental clearance could be obtained from the Head office of SIPCOT.

> MANAGING DIRECTOR SIPCOT 19-A, RUKMANI LAKSHMIPATHY ROAD, EGMORE, CHENNAI-B

DIPR/24/INSPLAY/2020



TAMIL NADU COMMON ENTRANCE TEST (TANCET) 2020 FOR M.B.A., M.C.A., & M.E./M.Tech./M.Arch./M.Plan. DEGREE PROGRAMMES ANNA UNIVERSITY, CHENNAI - 600 025



Applications for Tamil Nadu Common Entrance Test (TANCET) 2020 conducted by Anna University, Chennai on behalf of the Government of Tamil Nadu from candidates who seek admission to 1. M.B.A., 2. M.C.A. and 3. M.E. / M.Tech. / M.Arch. / M.Plan. Degree Programmes for the academic year 2020 – 2021 offered at University Departments,

Environmental Clearance for SIPCOT Tindivanam Published in "Dinamani" Villupuram Edition dated 05.01.2020 in Tamil Language

DISCHARGE MERCHANNEL थं व क्षेत्रज्ञ इन्हीं Reference GLIDIN sulf & Spinis MALTS & MT

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வும் பணியாற்றி அவர் வரலாற்றின் பக்கங்க லில் இடப்பெறுவார். அவர துமறைவு அதி முகவுக்கு ஈடுசெய்ய முடியாத இழப்பு என அறிக்கையில் தெரிவிக்கப்பட்டுள்ள து



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Annexure 7 B

Projects/Thindivanam/2019

Date:05.02.2020

/RPAD/

The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), Ist and IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 600 034

Sir,

- Sub: SIPCOT Industrial Park, Thindivanam Submission of copy of the press release for issue of Environmental Clearance from SEIAA – Forwarded - Reg.
- Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA. As per EC condition, the advertisement regarding issue of Environment Clearance for SIPCOT Industrial Park at Thindivanam has been released in 'Deccan Chronicle' Chennai edition dated 05.01.2020 in English language and 'Dinamani' Villupuram edition dated 05.01.2020 in Tamil Language.

The copy of both the press release has been enclosed here with for your kind perusal.

Yours Faithfully,

GENERAL MANAGER (P-II)i/c

Encl.: as above



Projects/Thindivanam/2019

Date:05.02.2020

The Member Secretary, State Level Environmental Impact Assessment Authority, /RPAD/ 3rd Floor, Panagal Maligai, No.1. Jeenis Road, Saidapet, Chennai – 600 015.

Sir,

- Sub: SIPCOT Industrial Park, Thindivanam Submission of copy of the press release for issue of Environmental Clearance from SEIAA – Forwarded - Reg.
- Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

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The copy of both the press release has been enclosed here with for your kind perusal.

Yours Faithfully,

GENERAL MANAGER (P-II)i/c

Encl.: as above



126

Annexure 8 A

Projects/Thindivanam/2019

Date: 05.02.2020

The President, Venmaniyathur Village Panchayat, Thindivanam Taluka, Villupuram District, Tamil Nadu

Sir,

- Sub: SIPCOT Industrial Park, Thindivanam Submission of copy of the press release for issue of Environmental Clearance from SEIAA – Forwarded - Reg.
- Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

With reference to the above, we have obtained Environmental Clearance (EC) for SIPCOT Industrial Park at Pelakuppam, Venmaniyathur, Kollar Village, Thindivanam Taluka, Villupuram 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)i/c

Encl.: as above Copy to: Project Officer, SIP - Cuddalore

DESPATCHEL ı Þ 7 FEB 2020 Ċ 0

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

Projects/Thindivanam/2019

Date: 05.02.2020

1263

The President, Pelakuppam Village Panchayat, Thindivanam Taluka, Villupuram District, Tamil Nadu

Sir,

- Sub: SIPCOT Industrial Park, Thindivanam Submission of copy of the press release for issue of Environmental Clearance from SEIAA – Forwarded - Reg.
- Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

With reference to the above, we have obtained Environmental Clearance (EC) for SIPCOT Industrial Park at Pelakuppam, Venmaniyathur, Kollar Village, Thindivanam Taluka, Villupuram 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)i/c 10/3

Encl.: as above <u>Copy to:</u> Project Officer, SIP - Cuddalore

DESPATCHED

0 7 FEB 2020

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

Date: 05.02.2020

Projects/Thindivanam/2019

The President, Kollar Village Panchayat, Thindivanam Taluka, Villupuram District, Tamil Nadu

Sir,

- Sub: SIPCOT Industrial Park, Thindivanam Submission of copy of the press release for issue of Environmental Clearance from SEIAA – Forwarded - Reg.
- Ref: SEIAA EC Letter No. SEIAA-TN/F. 6497/EC/8(b)/681/2019 dated 27.11.2019.

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Yours Faithfully,

GENERAL MANAGER (P-II)i/c 715

Encl.: as above <u>Copy to:</u> Project Officer, SIP - Cuddalore -

DESPATCHED S 1 P 0 7 FEB 2020 Ċ 0 HXHO T SL No.

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

Annexure 8B

Outlook 🥥 FAIL	MERI 📹	WC Dec 34 status.d.,				_				
Home	Ab	out Us Why SIPCOT 7	Land Information	Industrial Parks	Special Projects	Tenders	Resources	Logins	Contact Us	
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	16	Kurubarapalli		Krish	nagiri	& Download	0			
	v	Cheyyar – I		Thiru	vannamalai	& Download	Ris .			
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	24	Aerospace Park		Kanc	heepuram	A Download	0			
	25	Vallam Vadagal – II		Kanc	heepuram	& Download	E ¹²			
	26	Manaparai		Tiruc	hirappalli	& Download	0			
	27	Tindivanam		Villap	uram	& Download	0		1	1

Annexure 9

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1	2	C	ompliance Report - Pillaipak	kam for June 2024				& Download			
	3	C	ompliance Report - Vallam V	radagal II for June 2024				A Download			
	4	c	ompliance Report - Vaipur M	lathur for June 2024				A Download			
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	6	¢	ompliance Report - Cheyyar	for June 2024				A Download			
	7	c	ompliance Report - Manapar	rai for June 2024				A Download			
	8	C	omplance Report - Tindivan	am for June 2024				& Download	(
	9	¢	ompliance Report - Manallur	for June 2024				▲ Download	9		
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Home	Ab	out Us Why SIPCOT ?	Land Information	Industrial Parks	Special Projects	Tenders	Resources	Logins	Conta
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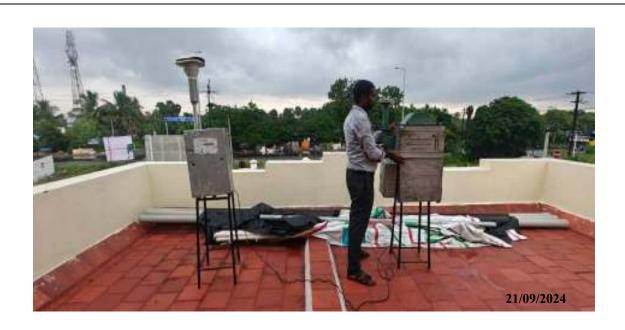


Annexure 10

<u>SIPCOT – THINDIVANAM MONITORING</u> <u>PHOTOS</u>

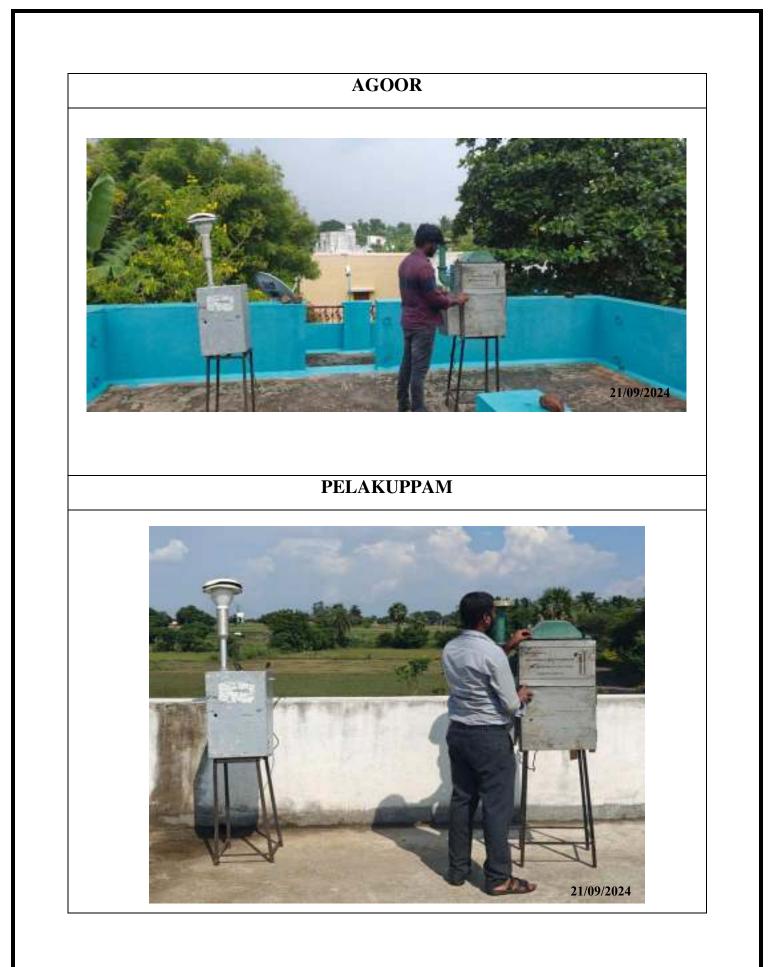
AMBIENT AIR QUALITY MONITORING PHOTOS:

NEAR PROJECT AREA



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GROUND WATER SAMPLING PHOTOS



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SURFACE WATER SAMPLING PHOTOGRAPH

BOTHERI LAKE



VIZHUKAM LAKE



SOIL SAMPLING PHOTOGRAPH





NOISE MONITORING PHOTOGRAPH

